

DETAILED RATE ANALYSIS
BALUCHISTAN

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CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S)+0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading aggregate per Km	Total cost per Km incl. Toll tax. For 2.83 cu.m Aggregate, including labour
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	673.34	302.13
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	676.46	303.06
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	471.71	214.93
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	362.69	167.88
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	294.68	138.45
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	248.56	118.43
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	214.90	103.78
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	189.49	92.69
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	169.40	83.90
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	153.34	76.85
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	139.82	70.98
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	15.94	16.86
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	8.00	13.45
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	7.89	13.34
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =	450			1,120							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																		

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading tonne of material per km	Total cost per Km incl. Toll tax. Carriage of 5 tons	
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	576.12	315.37	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	578.79	316.27	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	403.60	225.17	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	310.33	176.51	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	252.14	146.06	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	212.67	125.33	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	183.87	110.16	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	162.13	98.68	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	144.94	89.57	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	131.20	82.26	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	119.63	76.19	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.64	20.10	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.84	16.58	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.75	16.46	
					Diesel Rate per Ltr =			96		Oil Rate per Ltr =		450		1,120					
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

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Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S)+0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading bricks 10"x5"x3" per km	Total cost per Km incl. Toll tax. Carriage of 1000 bricks
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	430.16	100.09
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	432.14	100.06
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	301.35	63.06
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	231.70	47.81
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	188.25	39.81
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	158.79	35.00
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	137.28	31.80
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	121.05	29.53
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	108.22	27.83
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	97.96	26.52
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	89.32	25.57
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	10.18	18.61
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	5.11	18.41
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	5.04	18.31
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =	450			1,120							
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Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/(2L/S) + 0.75$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading 100 maunds of wood per km	Total cost per Km incl. Toll tax. Carriage of 100 maunds of wood
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	105.86	64.19
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	106.35	64.04
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	74.16	48.36
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	57.02	39.89
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	46.33	34.52
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	39.08	30.83
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	33.79	28.10
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	29.79	26.00
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	26.63	24.33
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	24.11	22.97
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	21.98	21.89
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	2.51	11.63
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	1.26	11.03
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	1.24	10.96
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =	450			1,120							
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Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = 8/((2L/S) +0.75)	Total Distance Travelled per day = (2NL+6)	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement in bags per km	Total cost per Km incl. Toll tax. Carriage of cement in 100 nos. bags	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.157xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	576.12	315.37	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	578.79	316.27	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	403.60	225.17	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	310.33	176.51	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	252.14	146.06	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	212.67	125.33	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	183.87	110.16	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	162.13	98.68	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	144.94	89.57	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	131.20	82.26	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	119.63	76.19	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.64	20.10	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.84	16.58	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.75	16.46	
Diesel Rate per Ltr =					96			Oil Rate per Ltr =		450		1,120							
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	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	762.64	81.73
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	766.17	81.99
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	534.27	58.10
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	410.80	45.35
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	333.76	37.37
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	281.53	31.95
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	243.40	27.99
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	214.62	24.98
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	191.86	22.61
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	173.67	20.70
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	158.36	19.11
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	18.05	4.46
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	9.06	3.54
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	8.94	3.51
					Diesel Rate per Ltr =	96				Oil Rate per Ltr =	450		1,120					
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																		

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading asbestos cement pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 75 mm dia cement concrete pipe BSS Class "B" per km
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	46.50
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	46.63
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	33.21
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	26.04
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	21.55
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	18.50
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	16.27
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	14.57
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	13.23
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	12.15
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	11.26
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	3.00
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	2.48
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	3.05
Diesel Rate per Ltr =					96		Oil Rate per Ltr =		450		1,120							
Reference Book : " Estmating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																		

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class 'B' per km	Total cost per Km incl. Toll tax. Carriage of 100 mm dia cement concrete pipe BSS Class 'B' per km	
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	57.65	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	57.82	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	41.18	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	32.29	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	26.73	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	22.94	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	20.17	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	18.07	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	16.41	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	15.07	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	13.96	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	3.71	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	3.07	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	4.03	
					Diesel Rate per Ltr =		96		Oil Rate per Ltr =		450		1,120						
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S)+0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 150 mm dia cement concrete pipe BSS Class "B" per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	76.25	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	76.47	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	54.46	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	42.71	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	35.35	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	30.34	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	26.68	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	23.90	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	21.70	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	19.93	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	18.47	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	4.91	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	4.06	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	6.59	
					Diesel Rate per Ltr =	96			Oil Rate per Ltr =	450			1,120						
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

One Gallon (UK) = 4.54609 Liter

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CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class 'B' per km	Total cost per Km incl. Toll tax. Carriage of 225 mm dia cement concrete pipe BSS Class 'B' per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	124.61	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	124.96	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	89.00	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	69.79	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	57.77	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	49.58	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	43.59	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	39.06	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	35.46	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	32.57	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	30.18	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	8.03	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	6.64	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	10.23	
Diesel Rate per Ltr =					96		Oil Rate per Ltr =			450		1,120							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

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CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class 'B' per km	Total cost per Km incl. Toll tax. Carriage of 300 mm dia cement concrete pipe BSS Class 'B' per km	
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	193.42	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	193.97	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	138.14	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	108.33	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	89.67	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	76.96	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	67.67	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	60.63	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	55.04	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	50.56	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	46.84	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	12.46	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	10.30	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	13.87	
					Diesel Rate per Ltr =		96		Oil Rate per Ltr =		450		1,120						
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 400 mm diacement concrete pipe BSS Class "B" per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	262.23	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	262.97	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	187.29	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	146.87	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	121.57	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	104.35	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	91.74	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	82.19	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	74.62	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	68.55	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	63.51	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	16.90	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	13.97	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	20.17	
Diesel Rate per Ltr =					96		Oil Rate per Ltr =					450		1,120					
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S)+0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 450 mm dia cement concrete pipe BSS Class "B" per km
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	S = Q/E	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	381.26
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	382.34
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	272.30
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	213.53
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	176.74
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	151.71
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	133.38
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	119.50
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	108.50
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	99.67
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	92.33
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	24.56
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	20.31
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	22.14
Diesel Rate per Ltr =					96		Oil Rate per Ltr =		450		1,120							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																		

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 500 mm dia cement concrete pipe BSS Class "B" per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	418.46	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	419.64	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	298.87	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	234.36	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	193.99	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	166.51	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	146.39	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	131.16	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	119.08	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	109.39	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	101.34	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	26.96	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	22.29	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	29.52	
Diesel Rate per Ltr =					96		Oil Rate per Ltr =		450		1,120								
Reference Book : " Estmating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 600 mm dia cement concrete pipe BSS Class "B" per km
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	565.32	557.95
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	567.94	559.52
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	396.04	398.49
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	304.51	312.48
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	247.41	258.65
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	208.68	222.01
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	180.42	195.19
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	159.09	174.88
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	142.22	158.77
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	128.74	145.86
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	117.39	135.12
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	13.38	35.95
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	6.72	29.72
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	6.63	29.52
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =	450			1,120							
Reference Book : " Estmating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																		

One Gallon (UK) = 4.54609 Liter

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CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S)+0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipe BSS all Classes per km	Total cost per Km incl. Toll tax. Carriage of 75 mm dia PVC pipe all Classes per km	
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	282.66	28.57	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	283.97	28.61	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	198.02	20.73	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	152.25	16.51	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	123.70	13.87	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	104.34	12.06	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	90.21	10.73	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	79.55	9.72	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	71.11	8.92	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	64.37	8.28	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	58.69	7.75	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	6.69	2.82	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	3.36	2.51	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	3.31	3.90	
					Diesel Rate per Ltr =	96		Oil Rate per Ltr =	450			1,120							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

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CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S)+0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipeall Classes per km	Total cost per Km incl. Toll tax. Carriage of 100 mm dia PVC pipe all Classes per km	
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.157xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	282.66	44.64	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	283.97	44.70	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	198.02	32.40	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	152.25	25.80	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	123.70	21.67	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	104.34	18.84	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	90.21	16.77	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	79.55	15.19	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	71.11	13.94	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	64.37	12.93	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	58.69	12.10	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	6.69	4.40	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	3.36	3.93	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	3.31	3.90	
					Diesel Rate per Ltr =		96		Oil Rate per Ltr =	450		1,120							
Reference Book : " Estmating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/(2L/S) + 0.75$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipe all Classes per km	Total cost per Km incl. Toll tax. Carriage of 125 mm dia PVC pipe all Classes per km	
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	282.66	69.75	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	283.97	69.85	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	198.02	50.62	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	152.25	40.32	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	123.70	33.85	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	104.34	29.44	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	90.21	26.20	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	79.55	23.74	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	71.11	21.78	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	64.37	20.21	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	58.69	18.91	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	6.69	6.88	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	3.36	6.14	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	3.31	6.10	
					Diesel Rate per Ltr =		96		Oil Rate per Ltr =		450		1,120						
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/(2L/S) + 0.75$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipe BSS all Classes per km	Total cost per Km incl. Toll tax. Carriage of 150 mm dia PVC pipe all Classes per km
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U= S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	282.66	100.45
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	283.97	100.58
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	198.02	72.89
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	152.25	58.06
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	123.70	48.75
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	104.34	42.39
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	90.21	37.72
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	79.55	34.18
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	71.11	31.36
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	64.37	29.10
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	58.69	27.23
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	6.69	9.90
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	3.36	8.84
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	3.31	8.78
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =	450			1,120							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																		

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipe BSS all Classes per km	Total cost per Km incl. Toll tax. Carriage of 200 mm dia PVC pipe BSS all Classes per km
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	282.66	178.57
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	283.97	178.81
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	198.02	129.58
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	152.25	103.21
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	123.70	86.66
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	104.34	75.36
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	90.21	67.06
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	79.55	60.76
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	71.11	55.75
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	64.37	51.73
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	58.69	48.41
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	6.69	17.61
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	3.36	15.71
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	3.31	15.61
Diesel Rate per Ltr =					96		Oil Rate per Ltr =		450		1,120							
Reference Book : " Estmating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																		

One Gallon (UK) = 4.54609 Liter

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CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipe all Classes per km	Total cost per Km incl. Toll tax. Carriage of 250 mm dia PVC pipe all Classes per km	
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	282.66	279.02	
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	283.97	279.38	
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	198.02	202.47	
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	152.25	161.27	
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	123.70	135.41	
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	104.34	117.75	
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	90.21	104.79	
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	79.55	94.94	
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	71.11	87.12	
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	64.37	80.82	
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	58.69	75.64	
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	6.69	27.51	
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	3.36	24.54	
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	3.31	24.39	
					Diesel Rate per Ltr =			96	Oil Rate per Ltr =		450		1,120						
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

One Gallon (UK) = 4.54609 Liter

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CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(TRUCK)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/(2L/S) + 0.75$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.157 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 ton Capacity truck hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipe BSS all Classes per km	Total cost per Km incl. Toll tax. Carriage of 300 mm dia PVC pipe BSS all Classes per km
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.157 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$		
1	2	10.0	6.96	33.83	5.31	96	507.70	0.34	450	152.22	1120.00	1779.92	256	53	2.00	54.62	282.66	401.79
2	2	11.0	7.18	34.73	5.45	96	521.34	0.35	450	156.31	1120.00	1797.65	250	52	2.00	53.75	283.97	402.31
3	3	12.0	6.40	44.40	6.97	96	666.41	0.44	450	199.80	1120.00	1986.21	310	45	2.00	46.73	198.02	291.56
4	4	13.0	5.86	52.87	8.30	96	793.59	0.53	450	237.93	1120.00	2151.51	367	41	2.00	42.69	152.25	232.23
5	5	14.0	5.46	60.63	9.52	96	910.07	0.61	450	272.85	1120.00	2302.92	422	38	2.00	39.98	123.70	194.99
6	6	15.0	5.16	67.94	10.67	96	1019.66	0.68	450	305.71	1120.00	2445.37	474	36	2.00	38.00	104.34	169.56
7	7	16.0	4.92	74.92	11.76	96	1124.54	0.75	450	337.15	1120.00	2581.69	525	34	2.00	36.46	90.21	150.89
8	8	17.0	4.73	81.69	12.82	96	1226.06	0.82	450	367.59	1120.00	2713.65	525	33	2.00	35.22	79.55	136.72
9	9	18.0	4.57	88.29	13.86	96	1325.10	0.88	450	397.29	1120.00	2842.38	622	32	2.00	34.20	71.11	125.45
10	10	19.0	4.44	94.76	14.88	96	1422.26	0.95	450	426.42	1120.00	2968.67	669	31	2.00	33.33	64.37	116.38
11	11	19.5	4.26	99.71	15.65	96	1496.51	1.00	450	448.68	1120.00	3065.19	669	31	2.00	32.74	58.69	108.92
100	100	30.0	1.08	221.73	34.81	96	3327.99	2.22	450	997.79	1120.00	5445.78	5042	25	2.00	26.56	6.69	39.61
200	200	30.0	0.57	233.22	36.62	96	3500.43	2.33	450	1049.49	1120.00	5669.91	9947	24	2.00	26.31	3.36	35.34
201	201	31.0	0.58	240.44	37.75	96	3608.83	2.40	450	1081.98	1120.00	5810.81	10019	24	2.00	26.17	3.31	35.12
					Diesel Rate per Ltr =	96		Oil Rate per Ltr =		450		1,120						
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																		

One Gallon (UK) = 4.54609 Liter

One Mile (mi) = 1.609344 Kilometers (Km) or 1609.344 meter

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT (Trolley)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.167 Litre/ hour	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	Trolley hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading aggregate per km	Total cost per Km incl. Toll tax. For 2.83 cu.m. including labour	Labour cost for loading & unloading tonne of material per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.25 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$				
1	1	10.0	8.42	22.84	5.71	96	545.93	0.23	450	102.79	7500.00	8148.72	968	357	1.45	358.19	1206.30	651.10	1,032.13	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	7500.00	8486.47	1182	244	1.45	245.77	676.46	383.81	578.79	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	7500.00	8760.96	1369	197	1.45	198.77	471.71	279.04	403.60	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	7500.00	9001.60	1536	170	1.45	171.70	362.69	222.40	310.33	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	7500.00	9222.01	1689	152	1.45	153.54	294.68	186.54	252.14	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	7500.00	9429.37	1827	139	1.45	140.25	248.56	161.81	212.67	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	7500.00	9627.82	1957	129	1.45	129.95	214.90	143.52	183.87	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	7500.00	9819.91	1957	120	1.45	121.66	189.49	129.49	162.13	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	7500.00	10007.31	2190	113	1.45	114.80	169.40	118.28	144.94	
10	10	19.0	4.44	94.76	23.69	96	2284.74	0.95	450	426.42	7500.00	10191.16	2295	108	1.45	109.00	153.34	109.18	131.20	
11	11	24.0	4.80	111.60	27.90	96	2667.24	1.12	450	502.20	7500.00	10669.44	2295	96	1.45	97.05	140.75	98.97	120.43	
100	100	30.0	1.08	221.73	55.43	96	5299.36	2.22	450	997.79	7500.00	13797.14	12775	62	1.45	63.67	15.94	33.13	13.64	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	7500.00	14123.42	24778	61	1.45	62.01	8.00	29.13	6.84	
Diesel Rate per Ltr =					96		Oil Rate per Ltr =			450		7,500								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT (Trolley)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.167 Litre/ hour	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	Trolley hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Total cost per Km incl. Toll tax. Carriage of 5 tons	Labour cost for loading & unloading bricks 10"x5"x3" per km	Total cost per Km incl. Toll tax. Carriage of 1000 bricks	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.25xE$	G	$H = F \times G$	$J=0.01xE$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$				
1	1	10.0	8.42	22.84	5.71	96	545.93	0.23	450	102.79	7500.00	8148.72	968	357	1.45	358.19	695.16	1,871.52	655.80	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	7500.00	8486.47	1182	244	1.45	245.77	412.28	1,049.49	380.96	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	7500.00	8760.96	1369	197	1.45	198.77	301.18	731.84	273.71	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	7500.00	9001.60	1536	170	1.45	171.70	241.01	562.70	216.00	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	7500.00	9222.01	1689	152	1.45	153.54	202.84	457.19	179.63	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	7500.00	9429.37	1827	139	1.45	140.25	176.46	385.63	154.67	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	7500.00	9627.82	1957	129	1.45	129.95	156.91	333.40	136.28	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	7500.00	9819.91	1957	120	1.45	121.66	141.90	293.99	122.25	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	7500.00	10007.31	2190	113	1.45	114.80	129.87	262.81	111.06	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	7500.00	10191.16	2295	108	1.45	109.00	120.10	237.89	102.03	
11	11	24.0	4.80	111.60	27.90	96	2667.24	1.12	450	502.20	7500.00	10669.44	2295	96	1.45	97.05	108.74	218.37	92.77	
100	100	30.0	1.08	221.73	55.43	96	5299.36	2.22	450	997.79	7500.00	13797.14	12775	62	1.45	63.67	38.66	24.73	26.00	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	7500.00	14123.42	24778	61	1.45	62.01	34.42	12.41	21.89	
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =		450			7,500								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT (Trolley)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.167 Litre/ hour	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	Trolley hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading of wood per km	Total cost per Km incl. Toll tax. Carriage of 100 maunds wood	Labour cost for loading & unloading tiles 12"x6"x2" per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.25xE$	G	$H = F \times G$	$J=0.01xE$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$				
1	1	10.0	8.42	22.84	5.71	96	545.93	0.23	450	102.79	7500.00	8148.72	968	357	1.45	358.19	1,290.16	333.51	1,596.30	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	7500.00	8486.47	1182	244	1.45	245.77	723.48	158.13	895.16	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	7500.00	8760.96	1369	197	1.45	198.77	504.50	108.59	624.22	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	7500.00	9001.60	1536	170	1.45	171.70	387.91	85.88	479.95	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	7500.00	9222.01	1689	152	1.45	153.54	315.17	72.77	389.95	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	7500.00	9429.37	1827	139	1.45	140.25	265.84	64.18	328.92	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	7500.00	9627.82	1957	129	1.45	129.95	229.84	58.02	284.37	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	7500.00	9819.91	1957	120	1.45	121.66	202.66	53.36	250.75	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	7500.00	10007.31	2190	113	1.45	114.80	181.17	49.67	224.16	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	7500.00	10191.16	2295	108	1.45	109.00	163.99	46.67	202.91	
11	11	24.0	4.80	111.60	27.90	96	2667.24	1.12	450	502.20	7500.00	10669.44	2295	96	1.45	97.05	150.54	41.41	186.26	
100	100	30.0	1.08	221.73	55.43	96	5299.36	2.22	450	997.79	7500.00	13797.14	12775	62	1.45	63.67	17.05	25.50	21.09	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	7500.00	14123.42	24778	61	1.45	62.01	8.55	24.81	10.58	
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =	450												
												7,500								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT (Trolley)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.167 Litre/ hour	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	Trolley hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Total cost per Km incl. Toll tax. Carriage of 1000 tiles	Labour cost for loading & unloading bricks 9"x4.5"x1.5" per km	Total cost per Km incl. Toll tax. Carriage of 1000 tiles
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.25xE$	G	$H = F \times G$	$J=0.01xE$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	1	10.0	8.42	22.84	5.71	96	545.93	0.23	450	102.79	7500.00	8148.72	968	357	1.45	358.19	673.96	1,871.52	327.90
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	7500.00	8486.47	1182	244	1.45	245.77	393.42	1,049.49	190.48
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	7500.00	8760.96	1369	197	1.45	198.77	283.79	731.84	136.85
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	7500.00	9001.60	1536	170	1.45	171.70	224.71	562.70	108.00
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	7500.00	9222.01	1689	152	1.45	153.54	187.41	457.19	89.81
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	7500.00	9429.37	1827	139	1.45	140.25	161.78	385.63	77.33
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	7500.00	9627.82	1957	129	1.45	129.95	142.87	333.40	68.14
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	7500.00	9819.91	1957	120	1.45	121.66	128.42	293.99	61.12
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	7500.00	10007.31	2190	113	1.45	114.80	116.88	262.81	55.53
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	7500.00	10191.16	2295	108	1.45	109.00	107.55	237.89	51.01
11	11	24.0	4.80	111.60	27.90	96	2667.24	1.12	450	502.20	7500.00	10669.44	2295	96	1.45	97.05	97.69	218.37	46.39
100	100	30.0	1.08	221.73	55.43	96	5299.36	2.22	450	997.79	7500.00	13797.14	12775	62	1.45	63.67	29.23	24.73	13.00
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	7500.00	14123.42	24778	61	1.45	62.01	25.03	12.41	10.94
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =		450			7,500							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT (Trolley)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.167 Litre/ hour	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	Trolley hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading 100 nos. Empty Cement bags per Km	Total cost per Km incl. Toll tax. Carriage of cement bags	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.25 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	1	10.0	8.42	22.84	5.71	96	545.93	0.23	450	102.79	7500.00	8148.72	968	357	1.45	358.19	49,671.21	49.67	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	7500.00	8486.47	1182	244	1.45	245.77	27,854.14	27.85	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	7500.00	8760.96	1369	197	1.45	198.77	19,423.42	19.42	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	7500.00	9001.60	1536	170	1.45	171.70	14,934.49	14.93	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	7500.00	9222.01	1689	152	1.45	153.54	12,134.00	12.13	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	7500.00	9429.37	1827	139	1.45	140.25	10,234.86	10.23	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	7500.00	9627.82	1957	129	1.45	129.95	8,848.68	8.85	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	7500.00	9819.91	1957	120	1.45	121.66	7,802.56	7.80	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	7500.00	10007.31	2190	113	1.45	114.80	6,975.17	6.98	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	7500.00	10191.16	2295	108	1.45	109.00	6,313.80	6.31	
11	11	24.0	4.80	111.60	27.90	96	2667.24	1.12	450	502.20	7500.00	10669.44	2295	96	1.45	97.05	5,795.70	5.80	
100	100	30.0	1.08	221.73	55.43	96	5299.36	2.22	450	997.79	7500.00	13797.14	12775	62	1.45	63.67	656.34	0.66	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	7500.00	14123.42	24778	61	1.45	62.01	329.34	0.33	
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =			450	7,500								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

Carraige by Donkey

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.1)$	Total Distance Travelled per day = $(2NL+3)$	Donkey hire charges(per day)	Cost per trip	Cost Per Km
	(L)	(S)	(N)	(Km)	(Rs)	(Rs.)	(Rs.)
A	B	C	D	E	P	R = Q/D	S = Q/E
1	0.152	5	46.84	21.12	800.00	17	38
2	0.305	6.0	37.80	30.20	800.00	21	26
3	0.8	7.0	23.63	44.96	800.00	34	18
4	1.6	8.0	15.69	57.20	800.00	51	14
5	4.8	9.0	6.80	71.83	800.00	118	11
6	16	10.0	2.42	83.58	800.00	331	10
7	6.4	10.0	5.76	80.20	1000.00	174	12
8	16	10.0	2.42	83.58	1000.00	413	12

Carraige by Cooly

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S))$	Total Distance Travelled per day = (2NL)	Donkey hire charges(per day)	Cost per trip	Cost Per Km
	(L)	(S)	(N)	(Km)	(Rs)	(Rs.)	(Rs.)
A	B	C	D	E	P	R = Q/D	S = Q/E
1	0.3	0.5	6.67	3.69	700.00	105	190
2	0.9	0.6	2.67	4.65	700.00	262	151
3	1	0.7	2.80	5.41	700.00	250	129
4	2	0.8	1.60	6.27	700.00	438	112
5	3	1.0	1.33	7.87	700.00	526	89

Labour (Rs.)= 87.50

Carraige by Cooly

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S))$	Total Distance Travelled per day = (2NL)	Donkey hire charges(per day)	Cost per trip	Cost Per Km
	(L)	(S)	(N)	(Km)	(Rs)	(Rs.)	(Rs.)
A	B	C	D	E	P	R = Q/D	S = Q/E
1	0.3	0.5	6.67	3.69	700.00	105	190
2	0.9	0.6	2.67	4.65	700.00	262	151
3	1	0.7	2.80	5.41	700.00	250	129
4	2	0.8	1.60	6.27	700.00	438	112
5	3	1.0	1.33	7.87	700.00	526	89

Labour (Rs.)= 87.50

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading Cement Bags per Km for 100 bag	Total cost per Km incl. Toll tax. For 100 cement bags, including labour	Labour cost for loading & unloading tonne of machinery per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.25xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T				
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	345.67	427.18	1,382.70	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	347.27	426.85	1,389.09	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	242.16	306.07	968.65	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	186.20	241.08	744.79	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	151.28	200.11	605.12	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	127.60	172.00	510.41	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	110.32	151.29	441.28	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	97.28	135.48	389.11	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	86.96	122.88	347.85	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	78.72	112.70	314.87	
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	71.78	104.45	287.11	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	4.11	22.43	16.42	
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450							
												10,000								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/(2L/S) + 0.75$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Total cost per Km incl. Toll tax. Carriage of machinery per tonne	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 650 mm dia cement concrete pipe BSS Class "B" per km		
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)		
A	B	C	D	E	$F=0.25 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$					
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	1,395.74	1,382.70	260.14		
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	1,401.82	1,389.09	259.94		
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	978.87	968.65	186.39		
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	753.57	744.79	146.81		
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	612.94	605.12	121.86		
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	517.52	510.41	104.75		
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	447.84	441.28	92.13		
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	395.23	389.11	82.51		
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	353.60	347.85	74.83		
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	320.31	314.87	68.63		
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	292.34	287.11	63.61		
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	19.36	16.42	13.66		
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																					

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 700 mm dia cement concrete pipe BSS Class "B" per km	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.25xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T				
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	1,382.70	301.70	1,382.70	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	1,389.09	301.47	1,389.09	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	968.65	216.17	968.65	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	744.79	170.27	744.79	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	605.12	141.33	605.12	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	510.41	121.48	510.41	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	441.28	106.85	441.28	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	389.11	95.69	389.11	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	347.85	86.79	347.85	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	314.87	79.60	314.87	
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	287.11	73.77	287.11	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	16.42	15.84	16.42	
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S)+0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Total cost per Km incl. Toll tax. Carriage of 700 mm dia cement concrete pipe BSS Class "B" per km	Labour cost for loading & unloading cement concrete pipe BSS Class "B" per km	Total cost per Km incl. Toll tax. Carriage of 750 mm dia cement concrete pipe BSS Class "B" per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.25 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$				
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	346.34	1,382.70	394.06	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	346.07	1,389.09	393.75	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	248.15	968.65	282.34	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	195.46	744.79	222.39	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	162.24	605.12	184.60	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	139.45	510.41	158.67	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	122.66	441.28	139.56	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	109.84	389.11	124.98	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	99.63	347.85	113.35	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	91.37	314.87	103.96	
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	84.69	287.11	96.35	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	18.18	16.42	20.69	
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450							
												10,000								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/(2L/S) + 0.75$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading cement concrete pipe BSS Class 'B' per km	Total cost per Km incl. Toll tax. Carriage of 800 mm dia cement concrete pipe BSS Class 'B' per km	Labour cost for loading & unloading cement concrete pipe BSS Class 'B' per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.25xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T				
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	1,382.70	444.86	1,382.70	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	1,389.09	444.51	1,389.09	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	968.65	318.73	968.65	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	744.79	251.05	744.79	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	605.12	208.39	605.12	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	510.41	179.12	510.41	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	441.28	157.55	441.28	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	389.11	141.09	389.11	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	347.85	127.96	347.85	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	314.87	117.36	314.87	
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	287.11	108.77	287.11	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	16.42	23.35	16.42	
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Total cost per Km incl. Toll tax. Carriage of 900 mm dia cement concrete pipe BSS Class 'B' per km	Labour cost for loading & unloading cement concrete pipe BSS Class 'B' per km	Total cost per Km incl. Toll tax. Carriage of 1000 mm dia cement concrete pipe BSS Class 'B' per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.25xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T				
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	498.73	1,382.70	615.72	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	498.34	1,389.09	615.24	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	357.33	968.65	441.15	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	281.46	744.79	347.48	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	233.63	605.12	288.43	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	200.81	510.41	247.92	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	176.63	441.28	218.06	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	158.18	389.11	195.28	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	143.46	347.85	177.11	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	131.58	314.87	162.44	
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	121.95	287.11	150.55	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	26.18	16.42	32.32	
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = 8/((2L/S) +0.75)	Total Distance Travelled per day = (2NL+6)	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipe BSS all Classes per km	Total cost per Km incl. Toll tax. Carriage of 315mm dia PVC pipe BSS all Classes per km	Labour cost for loading & unloading PVC pipe BSS all Classes per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.25xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T				
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	1,382.70	610.95	1,382.70	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	1,389.09	610.47	1,389.09	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	968.65	437.73	968.65	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	744.79	344.79	744.79	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	605.12	286.20	605.12	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	510.41	246.00	510.41	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	441.28	216.37	441.28	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	389.11	193.77	389.11	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	347.85	175.74	347.85	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	314.87	161.18	314.87	
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	287.11	149.39	287.11	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	16.42	32.07	16.42	
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Total cost per Km incl. Toll tax. Carriage of 400 mm dia PVC pipe all Classes per km	Labour cost for loading & unloading PVC pipe all Classes per km	Total cost per Km incl. Toll tax. Carriage of 455 mm dia PVC pipe all Classes per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.25xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T	(Rs.)	(Rs.)	(Rs.)	
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	775.96	1,382.70	985.15	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	775.35	1,389.09	984.38	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	555.96	968.65	705.84	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	437.91	744.79	555.97	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	363.50	605.12	461.49	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	312.44	510.41	396.67	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	274.81	441.28	348.90	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	246.10	389.11	312.45	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	223.21	347.85	283.38	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	204.72	314.87	259.91	
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	189.73	287.11	240.88	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	40.74	16.42	51.72	
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading PVC pipe all Classes per km	Total cost per Km incl. Toll tax. Carriage of 500 mm dia PVC pipe all Classes per km	Labour cost for loading & unloading PVC pipe all Classes per km		
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	$F=0.25 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$					
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	1,382.70	1,246.83	1,382.70		
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	1,389.09	1,245.86	1,389.09		
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	968.65	893.33	968.65		
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	744.79	703.65	744.79		
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	605.12	584.08	605.12		
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	510.41	502.03	510.41		
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	441.28	441.57	441.28		
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	389.11	395.44	389.11		
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	347.85	358.66	347.85		
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	314.87	328.94	314.87		
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	287.11	304.87	287.11		
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	16.42	65.45	16.42		
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450								
													10,000								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																					

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 10 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S) + 0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Total cost per Km incl. Toll tax. Carriage of 660 mm dia PVC pipe all Classes per km	Labour cost for loading & unloading PVC pipe all Classes per km	Total cost per Km incl. Toll tax. Carriage of 800 mm dia PVC pipe all Classes per km	
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	
A	B	C	D	E	F=0.25xE	G	H = F x G	J=0.01xE	K	L = J x K	P	Q = H+L+P	R = Q/D	S = Q/E	T	U= S + T				
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	10000.00	10960.66	1575	324	2.00	326.03	2,443.79	1,382.70	3,940.61	
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	10000.00	10986.47	1530	316	2.00	318.30	2,441.88	1,389.09	3,937.52	
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	10000.00	11260.96	1760	254	2.00	255.63	1,750.94	968.65	2,823.38	
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	10000.00	11501.60	1963	218	2.00	219.53	1,379.15	744.79	2,223.88	
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	10000.00	11722.01	2147	193	2.00	195.32	1,144.79	605.12	1,845.97	
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	10000.00	11929.37	2312	176	2.00	177.60	983.98	510.41	1,586.67	
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	10000.00	12127.82	2465	162	2.00	163.87	865.48	441.28	1,395.59	
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	10000.00	12319.91	2465	151	2.00	152.82	775.06	389.11	1,249.79	
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	10000.00	12507.31	2737	142	2.00	143.67	702.97	347.85	1,133.53	
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	10000.00	12691.16	2858	134	2.00	135.93	644.73	314.87	1,039.62	
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	10000.00	12831.66	2858	129	2.00	130.69	597.54	287.11	963.54	
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	10000.00	16623.42	21562	71	2.00	73.28	128.29	16.42	206.87	
					Diesel Rate per Ltr =	96						Oil Rate per Ltr =	450							
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																				

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 22 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/((2L/S)+0.75)$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Labour cost for loading & unloading Cement Bags per Km for 100 bag	Total cost per Km incl. Toll tax. For 100 cement bags, including labour	Labour cost for loading & unloading tonne of machinery per km
	(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs)	(Rs)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.25 \times E$	G	$H = F \times G$	$J=0.01 \times E$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$			
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	15000.00	15960.66	2293	472	2.00	473.84	345.67	404.90	1,382.70
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	15000.00	15986.47	2227	460	2.00	462.24	347.27	405.05	1,389.09
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	15000.00	16260.96	2541	366	2.00	368.24	242.16	288.19	968.65
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	15000.00	16501.60	2816	312	2.00	314.10	186.20	225.46	744.79
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	15000.00	16722.01	3063	276	2.00	277.79	151.28	186.00	605.12
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	15000.00	16929.37	3281	249	2.00	251.20	127.60	159.00	510.41
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	15000.00	17127.82	3481	229	2.00	230.61	110.32	139.15	441.28
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	15000.00	17319.91	3481	212	2.00	214.03	97.28	124.03	389.11
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	15000.00	17507.31	3831	198	2.00	200.30	86.96	112.00	347.85
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	15000.00	17691.16	3984	187	2.00	188.70	78.72	102.30	314.87
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	15000.00	17831.66	3984	179	2.00	180.84	71.78	94.38	287.11
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	15000.00	21623.42	11318	93	2.00	94.72	4.11	15.95	16.42
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =	450			15,000								
Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)																			

CARRIAGE CALCULATION BY MECHANICAL TRANSPORT(Trailer 22 Wheeler)

Sr. No.	Start-End point distance in Kms.	Average Speed in Km./hr.	No of trips per day = $8/(2L/S) + 0.75$	Total Distance Travelled per day = $(2NL+6)$	Diesel consumed @ 0.25 Ltr./Km.	Rate of Diesel per liter	Cost on account of Diesel	Engine Oil consumed @ 0.01 Ltr / Km.	Rate of Engine Oil per liter	Engine Oil cost	10 wheeler Capacity trailer hire charges	Total Cost	Cost per trip	Cost Per Km	Toll Tax	Total cost per Km incl. Toll tax.	Total cost per Km incl. Toll tax. Carriage of 1 tons of machinery
(L)	(S)	(N)	(Km)	(Ltr.)	(Rs.)	(Rs.)	(Ltr.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
A	B	C	D	E	$F=0.25xE$	G	$H = F \times G$	$J=0.01xE$	K	$L = J \times K$	P	$Q = H+L+P$	$R = Q/D$	$S = Q/E$	T	$U = S + T$	
1	2	10.0	6.96	33.83	8.46	96	808.44	0.34	450	152.22	15000.00	15960.66	2293	472	2.00	473.84	1,394.54
2	2	11.0	7.18	34.73	8.68	96	830.16	0.35	450	156.31	15000.00	15986.47	2227	460	2.00	462.24	1,400.65
3	3	12.0	6.40	44.40	11.10	96	1061.16	0.44	450	199.80	15000.00	16260.96	2541	366	2.00	368.24	977.85
4	4	13.0	5.86	52.87	13.22	96	1263.67	0.53	450	237.93	15000.00	16501.60	2816	312	2.00	314.10	752.64
5	5	14.0	5.46	60.63	15.16	96	1449.16	0.61	450	272.85	15000.00	16722.01	3063	276	2.00	277.79	612.07
6	6	15.0	5.16	67.94	16.98	96	1623.66	0.68	450	305.71	15000.00	16929.37	3281	249	2.00	251.20	516.69
7	7	16.0	4.92	74.92	18.73	96	1790.66	0.75	450	337.15	15000.00	17127.82	3481	229	2.00	230.61	447.05
8	8	17.0	4.73	81.69	20.42	96	1952.32	0.82	450	367.59	15000.00	17319.91	3481	212	2.00	214.03	394.47
9	9	18.0	4.57	88.29	22.07	96	2110.03	0.88	450	397.29	15000.00	17507.31	3831	198	2.00	200.30	352.86
10	10	19.0	4.44	94.76	23.69	96	2264.74	0.95	450	426.42	15000.00	17691.16	3984	187	2.00	188.70	319.59
11	11	19.5	4.26	99.71	24.93	96	2382.98	1.00	450	448.68	15000.00	17831.66	3984	179	2.00	180.84	291.64
200	200	30.0	0.57	233.22	58.30	96	5573.93	2.33	450	1049.49	15000.00	21623.42	11318	93	2.00	94.72	18.79
					Diesel Rate per Ltr =	96	Oil Rate per Ltr =		450			15,000					

Reference Book : " Estimating and costing in Civil Engineering Theory and Practice" by B.N. Dutta (26th revised edition, december 2001)

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)

Item No. 2-1-1

Cu.m. Loading or unloading into or from mobile trucks, coarse aggregate, sand, stone/ brick ballast, surkhi, ashes, kankar, brick/stone bats, coal or lime etc. lead upto 100 ft (30 m)

Labourer	2.75	Hrs	@	87.5	240.63	
Contractor's profit & overhead				20%	48.13	
Total Labour rate					<u>288.75</u>	288.80

Item No. 2-2-1

1000 Nos. Loading or unloading bricks or tiles into or from mobile trucks properly laid and stacked lead upto 100 ft (30 m)

Labourer	8.00	Hrs	@	87.5	700.00	
Contractor's profit & overhead				20%	140.00	
Total Labour rate					<u>840.00</u>	840.00

Item No. 2-3-1

100 Nos. Loading or unloading into or from mobile trucks cement in bags (inside or outside the godown) and stacking lead upto 100 ft (30 m)

Labourer	8.00	Hrs	@	87.5	700.00	
Contractor's profit & overhead				20%	140.00	
Total Labour rate					<u>840.00</u>	840.00

Item No. 2-4-1

100 Nos. Loading or unloading into or from mobile trucks empty cement bags (inside or outside the godown) and stacking lead upto 100 ft (30 m)

Labourer	0.77	Hrs	@	87.5	67.38	
Contractor's profit & overhead				20%	13.48	
Total Labour rate					<u>80.85</u>	80.90

Item No. 2-5-1

% Kg. Loading or unloading into or from mobile trucks (inside or outside the godown) and stacking, white lime in bags lead upto 100 ft (30 m)

Labourer	0.15	Hrs	@	87.5	13.13	
Contractor's profit & overhead				20%	2.63	
Total Labour rate					<u>15.75</u>	15.80

Item No. 2-6-1

Tonne Loading or unloading into or from mobile trucks structural steel, R.S joists etc. lead upto 100 ft (30 m)

Labourer	1.60	Hrs	@	87.5	140.00	
Contractor's profit & overhead				20%	28.00	
Total Labour rate					<u>168.00</u>	168.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)

Item No. 2-7-1**Each Loading or unloading 205 litre drums fuel into or from mobile trucks, lead upto 100 ft (30 m)**

Labourer	0.48	Hrs	@	87.5	42.00	
Contractor's profit & overhead				20%	8.40	
Total Labour rate					<u>50.40</u>	50.40

Item No. 2-8-1**Each Loading or unloading packages of sorts weighing upto 50 kgs.**

Labourer	0.24	Hrs	@	87.5	21.00	
Contractor's profit & overhead				20%	4.20	
Total Labour rate					<u>25.20</u>	25.20

Item No. 2-9-1**Tonne Loading or unloading timber logs or timber for shuttering, into or from mobile trucks including stacking lead upto 100 ft (30 m)**

Labourer	2.21	Hrs	@	87.5	192.94	
Contractor's profit & overhead				20%	38.59	
Total Labour rate					<u>231.53</u>	231.50

Item No. 2-10-1**% Kg. Loading or unloading bhoosa into or from mobile trucks lead upto 150 ft. (45 m)**

Labourer	0.60	Hrs	@	87.5	52.50	
Contractor's profit & overhead				20%	10.50	
Total Labour rate					<u>63.00</u>	63.00

Item No. 2-11-1**Tonne Loading or unloading timber scrap or wooden plugs into or from mobile trucks including stacking and lead upto 100 ft (30 m)**

Labourer	3.53	Hrs	@	87.5	308.70	
Contractor's profit & overhead				20%	61.74	
Total Labour rate					<u>370.44</u>	370.40

Item No. 2-12-1**Cu.m. Loading or unloading pitching stone or spawl from mobile trucks including clearing**

Labourer	0.84	Hrs	@	87.5	73.15	
Contractor's profit & overhead				20%	14.63	
Total Labour rate					<u>87.78</u>	87.80

Item No. 2-13-1**Cu.m. Loading or unloading building stone including clearing**

Labourer	1.09	Hrs	@	87.5	94.94	
Contractor's profit & overhead				20%	18.99	
Total Labour rate					<u>113.93</u>	113.90

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
Item No. 2-14-1							
Unloading oils.							
1000 a) Crude oil (to be pumped from tanker into tank)							
Litres	Labourer	2.11	Hrs	@	87.5	184.89	
	Contractor's profit & overhead				20%	36.98	
	Total Labour rate					221.87	221.90
1000 b) Crude oil (drained by gravity)							
Litres	Rate same as item (a) above.						221.90
Tonne c) Fuel oil into empty drums including stacking upto 100 ft (30 m)							
	Labourer	3.14	Hrs	@	87.5	274.49	
	Contractor's profit & overhead				20%	54.90	
	Total Labour rate					329.39	329.40
100 d) Petrol (4.5 litre tin)							
Nos.	Labourer	4.03	Hrs	@	87.5	352.80	
	Contractor's profit & overhead				20%	70.56	
	Total Labour rate					423.36	423.40
100 e) Kerosine (18 litre tin)							
Nos.	Labourer	8.00	Hrs	@	87.5	700.00	
	Contractor's profit & overhead				20%	140.00	
	Total Labour rate					840.00	840.00
Item No. 2-15-1							
Removing and stacking lead upto 100 ft (30 m)							
Cu.m. a) Stone, spawl, brick bats, shingle, sand, lime, surkhi, ashes, kankar and coal etc.							
	Labourer	1.13	Hrs	@	87.5	98.88	
	Contractor's profit & overhead				20%	19.78	
	Total Labour rate					118.65	118.70
1000 b) Bricks							
Nos.	Labourer	8.53	Hrs	@	87.5	746.64	
	Contractor's profit & overhead				20%	149.33	
	Total Labour rate					895.97	896.00
Tonne c) Rails, girders, pipes, cement etc.							
	Labourer	1.57	Hrs	@	87.5	137.38	
	Contractor's profit & overhead				20%	27.48	
	Total Labour rate					164.85	164.90
Cu.m. d) Bailey bridges & wooden structural members							
	Labourer	3.50	Hrs	@	87.5	306.25	
	Contractor's profit & overhead				20%	61.25	
	Total Labour rate					367.50	367.50

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)

Item No.2-16-1

Tonne Loading into mobile trucks girders, rails, permanent way material, iron work. pipes etc including lead upto 100 ft (30 m) and stacking

Labourer	3.53	Hrs	@	87.5	308.88
Contractor's profit & overhead				20%	61.78
Total Labour rate					<u>370.65</u>

370.70**Item No. 2-17-1**

Tonne Unloading from mobile trucks girders, permanent way material, iron work, pipes, etc. lead upto 100 ft (30 m) but excluding stacking.

Labourer	2.02	Hrs	@	87.5	176.49
Contractor's profit & overhead				20%	35.30
Total Labour rate					<u>211.79</u>

211.80**Item No. 2-18-1**

Tonne Loading or unloading bitumen, asphalt or tar in drums, into or from mobile trucks lead upto 100 ft (30 m)

Labourer	2.12	Hrs	@	87.5	185.33
Contractor's profit & overhead				20%	37.07
Total Labour rate					<u>222.39</u>

222.40**Item No. 2-19-1**

Cu.m. Loading bailey bridge wooden structural members including stacking lead upto 100 ft (30m)

Labourer	2.75	Hrs	@	87.5	240.63
Contractor's profit & overhead				20%	48.13
Total Labour rate					<u>288.75</u>

288.80**Item No. 2-20-1**

Cu.m. Unloading bailey bridge wooden structural members excluding stacking lead upto 100 ft (30m)

Labourer	1.40	Hrs	@	87.5	122.50
Contractor's profit & overhead				20%	24.50
Total Labour rate					<u>147.00</u>

147.00**Item No. 2-21-1**

Tonne Loading into mobile trucks, steel fabrication/bars including lead upto 100 ft (30m) and stacking inside trucks.

Labourer	5.50	Hrs	@	87.5	481.25
Contractor's profit & overhead				20%	96.25
Total Labour rate					<u>577.50</u>

577.50**Item No. 2-22-1**

Tonne Unloading from mobile trucks, steel fabrication/bars including lead upto 100 ft (30m) and stacking

Labourer	3.00	Hrs	@	87.5	262.50
Contractor's profit & overhead				20%	52.50
Total Labour rate					<u>315.00</u>

315.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)

Item No. 3 - 1

Earth work excavation undressed, lead upto a single throw of kassi, phaorah, shovel.

a) Manual (Maximum Area 250 Sft)				
Cu.m.	i) In ashes, sand, soft soil or silt clearance.			
	Labourer	0.85	Hrs @	87.5
	Contractor's profit & overhead			20%
	Total Labour Rate			74.38 14.88 <u>89.25</u>
				89.25
Cu.m.	ii) In ordinary soil			
	Labourer	1.02	Hrs @	87.5
	Contractor's profit & overhead			20%
	Total Labour Rate			89.25 17.85 <u>107.10</u>
				107.10
Cu.m.	iii) In hard soil			
	Labourer	1.75	Hrs @	87.5
	Contractor's profit & overhead			20%
	Total Labour Rate			153.13 30.63 <u>183.75</u>
				183.75
Cu.m.	iv) In shingle or gravel			
	Labourer	3.5	Hrs @	87.5
	Contractor's profit & overhead			20%
	Total Labour Rate			306.25 61.25 <u>367.50</u>
				367.50
b) Equipment				
Cu.m.	i) In ashes, sand, soft soil or silt clearance.			
	Excavator	0.025	Hrs @	2500
	Contractor's profit & overhead			20%
	Total Labour Rate			62.50 12.50 <u>75.00</u>
				75.00
Cu.m.	ii) In ordinary soil			
	Excavator	0.033	Hrs @	2500
	Contractor's profit & overhead			20%
	Total Labour Rate			82.50 16.50 <u>99.00</u>
				99.00
Cu.m.	iii) In hard soil			
	Excavator	0.04	Hrs @	2500
	Contractor's profit & overhead			20%
	Total Labour Rate			100.00 20.00 <u>120.00</u>
				120.00
Cu.m.	iv) In shingle or gravel			
	Excavator	0.05	Hrs @	2500
	Contractor's profit & overhead			20%
	Total Labour Rate			125.00 25.00 <u>150.00</u>
				150.00

Item No. 3 - 2

Earth work excavation undressed, lead upto 50 ft. (15m.)

a) Manual (Maximum Area 250 Sft)				
Cu.m.	i) In ashes, sand, soft soil or silt clearance.			
	Labourer	1.24	Hrs @	87.5
	Contractor's profit & overhead			20%
	Total Labour Rate			108.50 21.70 <u>130.20</u>
				130.20

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
Cu.m. ii)	In ordinary soil					
	Labourer	1.50	Hrs	@ 87.5	131.25	
	Contractor's profit & overhead			20%	26.25	
	Total Labour Rate				157.50	157.50
Cu.m. iii)	In hard soil					
	Labourer	2.10	Hrs	@ 87.5	183.75	
	Contractor's profit & overhead			20%	36.75	
	Total Labour Rate				220.50	220.50
Cu.m. iv)	In shingle or gravel					
	Labourer	4.25	Hrs	@ 87.5	371.88	
	Contractor's profit & overhead			20%	74.38	
	Total Labour Rate				446.25	446.25
	b) Mechanical					
i)	In ashes, sand, soft soil or silt clearance.					
	Excavator	0.025	Hrs	@ 2500	62.50	
	Dumper Truck (Imported) (18 Ton)	0.03	Hrs	@ 2150	64.50	
	Contractor's profit & overhead			20%	25.40	
	Total Labour Rate				152.40	152.40
ii)	Ordinary soil					
	Excavator	0.033	Hrs	@ 2500	82.50	
	Dumper Truck (Imported) (18 Ton)	0.04	Hrs	@ 2150	86.00	
	Contractor's profit & overhead			20%	33.70	
	Total Labour Rate				202.20	202.20
iii)	Hard soil					
	Excavator	0.04	Hrs	@ 2500	100.00	
	Dumper Truck (Imported) (18 Ton)	0.05	Hrs	@ 2150	107.50	
	Contractor's profit & overhead			20%	41.50	
	Total Labour Rate				249.00	249.00
iv)	Shingle or gravel					
	Excavator	0.06	Hrs	@ 2500	150.00	
	Dumper Truck (Imported) (18 Ton)	0.06	Hrs	@ 2150	129.00	
	Contractor's profit & overhead			20%	55.80	
	Total Labour Rate				334.80	334.80
	Item No. 3 - 3					
	Bed clearance in ordinary soil and dressing slopes of drains to required section including removal of weeds, roots etc. and disposal of excavated material within 50 ft. (15m) lead.					
Cu.m. a)	Excavated material undressed					
	Labourer	1.58	Hrs	@ 87.5	138.25	
	Contractor's profit & overhead			20%	27.65	
	Total Labour Rate				165.90	165.90
Cu.m. b)	Excavated material dressed in specified manner.					
	1. Excavation					
	Labourer	1.58	Hrs	@ 87.5	138.25	
	2. Dressing					
	Labourer	0.12	Hrs	@ 87.5	10.50	
	Total of 1 & 2				148.75	
	Contractor's profit & overhead			20%	29.75	
	Total Labour Rate				178.50	178.50
	Item No. 3 - 4					

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
Borrow pit excavation depth upto 10 ft. (3 m) undressed lead upto 100 ft. (30m)						
a) In ashes, sand, soft soil or silt clearance.						
	Excavator	0.025	Hrs	@ 2500	62.50	
	Dumper Truck (Imported) (18 Ton)	0.04	Hrs	@ 2150	86.00	
	Contractor's profit & overhead			20%	29.70	
	Total Labour Rate				178.20	178.20
b) Ordinary soil						
	Excavator	0.033	Hrs	@ 2500	82.50	
	Dumper Truck (Imported) (18 Ton)	0.05	Hrs	@ 2150	107.50	
	Contractor's profit & overhead			20%	38.00	
	Total Labour Rate				228.00	228.00
c) Hard soil						
	Excavator	0.04	Hrs	@ 2500	100.00	
	Dumper Truck (Imported) (18 Ton)	0.06	Hrs	@ 2150	129.00	
	Contractor's profit & overhead			20%	45.80	
	Total Labour Rate				274.80	274.80
d) Shingle or gravel						
	Excavator	0.06	Hrs	@ 2500	150.00	
	Dumper Truck (Imported) (18 Ton)	0.08	Hrs	@ 2150	172.00	
	Contractor's profit & overhead			20%	64.40	
	Total Labour Rate				386.40	386.40
Item No. 3 - 5						
Earthwork for embankment lead upto 1000 M and compaction by mechanical means at optimum moisture content, dressing to designed section including laying, leveling and watering.						
A. Sand						
Cu.m. i) 95% maximum modified AASHTO dry density						
1. Labour						
	Labourer	0.05	Hrs	@ 87.5	4.38	
	Contractor's profit & overhead			20%	0.88	
	Total Labour Rate				5.25	5.25
2. Machinery						
	Bulldozer 90HP	0.010	Hrs	@ 3,597.00	35.97	
	Motor grader 165 H.P.	0.010	Hrs	@ 3,150.00	31.50	
	Vibratory roller 10-12 Ton	0.010	Hrs	@ 1,772.00	17.72	
	Tractor with trolley	0.020	Hrs	@ 544.00	10.88	
	Water bowser	0.040	Hrs	@ 583.00	23.32	
					119.39	
	Water charges			7%	8.36	
					127.75	
	Sundries			5%	6.39	
					134.13	
	Total				134.13	
	Contractor's profit & overhead			20%	26.83	
	Total Composite Rate				166.21	166.20
Cu.m. ii) 90% maximum modified AASHTO dry density						
1. Labour						
	Labourer	0.05	Hrs	@ 87.5	4.38	
	Contractor's profit & overhead			20%	0.88	
	Total Labour Rate				5.25	5.25
2. Machinery						
	Bulldozer 90HP	0.010	Hrs	@ 3,597.00	35.97	
	Motor grader 165 H.P.	0.010	Hrs	@ 3,150.00	31.50	
	Vibratory roller 10-12 Ton	0.008	Hrs	@ 1,772.00	14.18	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Tractor with trolley	0.020	Hrs @ 544.00	10.88
	Water bowzer	0.040	Hrs @ 583.00	23.32
				115.85
	Water Charges		7%	8.11
				123.96
	Sundries		5%	6.20
	Total			130.15
	Contractor's profit & overhead		20%	26.03
	Total Composite Rate			161.43
				161.45
Cu.m.	iii) 85% maximum modified AASHTO dry density			
	1. Labour			
	Labourer	0.05	Hrs @ 87.5	4.38
	Contractor's profit & overhead		20%	0.88
	Total Labour Rate			5.25
				5.25
	2. Machinery			
	Bulldozer 90HP	0.010	Hrs @ 3,597.00	35.97
	Motor grader 165 H.P.	0.010	Hrs @ 3,150.00	31.50
	Vibratory roller 10-12 Ton	0.006	Hrs @ 1,772.00	10.63
	Tractor with trolley	0.020	Hrs @ 544.00	10.88
	Water bowzer	0.020	Hrs @ 583.00	11.66
				100.64
	Water Charges		7%	7.04
				107.69
	Sundries		5%	5.38
	Total			113.07
	Contractor's profit & overhead		20%	22.61
	Total Composite Rate			140.94
				140.95
	B. Ordinary soil			
Cu.m.	i) 95% maximum modified AASHTO dry density			
	1. Labour			
	Labourer	0.07	Hrs @ 87.5	6.13
	Contractor's profit & overhead		20%	1.23
	Total Labour Rate			7.35
				7.35
	2. Machinery			
	Bulldozer 90HP	0.015	Hrs @ 3,597.00	53.96
	Motor grader 165 H.P.	0.015	Hrs @ 3,150.00	47.25
	Vibratory roller 10-12 Ton	0.010	Hrs @ 1,772.00	17.72
	Tractor with trolley	0.020	Hrs @ 544.00	10.88
	Water bowzer	0.040	Hrs @ 583.00	23.32
	Sheep foot roller	0.015	Hrs @ 3,300.00	49.50
				202.63
	Water Charges		7%	14.18
				216.81
	Sundries		5%	10.84
	Total			227.65
	Contractor's profit & overhead		20%	45.53
	Total Composite Rate			280.53
				280.55
Cu.m.	ii) 90% maximum modified AASHTO dry density			
	1. Labour			
	Labourer	0.07	Hrs @ 87.5	6.13
	Contractor's profit & overhead		20%	1.23
	Total Labour Rate			7.35
				7.35
	2. Machinery			
	Bulldozer 90HP	0.015	Hrs @ 3,597.00	53.96
	Motor grader 165 H.P.	0.015	Hrs @ 3,150.00	47.25
	Vibratory roller 10-12 Ton	0.008	Hrs @ 1,772.00	14.18
	Tractor with trolley	0.020	Hrs @ 544.00	10.88
	Water bowzer	0.040	Hrs @ 583.00	23.32
	Sheep foot roller	0.010	Hrs @ 3,300.00	33.00
				182.58
	Water Charges		7%	12.78
				195.36
	Sundries		5%	9.77

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total		205.13	
	Contractor's profit & overhead	20%	41.03	
	Total Composite Rate		253.51	253.50
Cu.m. iii)	85% maximum modified AASHTO dry density			
	1. Labour			
	Labourer	0.07	Hrs @ 87.5	6.13
	Contractor's profit & overhead		20%	1.23
	Total Labour Rate			7.35
	2. Machinery			
	Bulldozer 90HP	0.015	Hrs @ 3,597.00	53.96
	Motor grader 165 H.P.	0.015	Hrs @ 3,150.00	47.25
	Vibratory roller 10-12 Ton	0.006	Hrs @ 1,772.00	10.63
	Tractor with trolley	0.020	Hrs @ 544.00	10.88
	Water bowzer	0.040	Hrs @ 583.00	23.32
	Sheep foot roller	0.010	Hrs @ 3,300.00	33.00
				179.04
	Water Charges		7%	12.53
				191.57
	Sundries		5%	9.58
	Total			201.15
	Contractor's profit & overhead		20%	40.23
	Total Composite Rate			248.73
				248.75
C.	Hard soil			
Cu.m. i)	95% maximum modified AASHTO dry density			
	1. Labour			
	Labourer	0.09	Hrs @ 87.5	7.88
	Contractor's profit & overhead		20%	1.58
	Total Labour Rate			9.45
	2. Machinery			
	Bulldozer 90HP	0.020	Hrs @ 3,597.00	71.94
	Motor grader 165 H.P.	0.020	Hrs @ 3,150.00	63.00
	Vibratory roller 10-12 Ton	0.020	Hrs @ 1,772.00	35.44
	Tractor with trolley	0.080	Hrs @ 544.00	43.52
	Water bowzer	0.040	Hrs @ 583.00	23.32
	Sheep foot roller	0.015	Hrs @ 3,300.00	49.50
				286.72
	Water Charges		7%	20.07
				306.79
	Sundries		5%	15.34
	Total			322.13
	Contractor's profit & overhead		20%	64.43
	Total Composite Rate			396.01
				396.00
Cu.m. ii)	90% maximum modified AASHTO dry density			
	1. Labour			
	Labourer	0.09	Hrs @ 87.5	7.88
	Contractor's profit & overhead		20%	1.58
	Total Labour Rate			9.45
	2. Machinery			
	Bulldozer 90HP	0.020	Hrs @ 3,597.00	71.94
	Motor grader 165 H.P.	0.020	Hrs @ 3,150.00	63.00
	Vibratory roller 10-12 Ton	0.015	Hrs @ 1,772.00	26.58
	Tractor with trolley	0.040	Hrs @ 544.00	21.76
	Water bowzer	0.015	Hrs @ 583.00	8.75
	Sheep foot roller	0.015	Hrs @ 3,300.00	49.50
				241.53
	Water Charges		7%	16.91
				258.43
	Sundries		5%	12.92
	Total			271.35
	Contractor's profit & overhead		20%	54.27
	Total Composite Rate			335.07
				335.05

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Cu.m. iii) 85% maximum modified AASHTO dry density					
1. Labour					
Labourer	0.09	Hrs	@	87.5	7.88
Contractor's profit & overhead				20%	1.58
Total Labour Rate					9.45
					9.45
2. Machinery					
Bulldozer 90HP	0.020	Hrs	@	3,597.00	71.94
Motor grader 165 H.P.	0.020	Hrs	@	3,150.00	63.00
Vibratory roller 10-12 Ton	0.010	Hrs	@	1,772.00	17.72
Tractor with trolley	0.040	Hrs	@	544.00	21.76
Water bowser	0.010	Hrs	@	583.00	5.83
Sheep foot roller	0.010	Hrs	@	3,300.00	33.00
					213.25
Water Charges				7%	14.93
					228.18
Sundries				5%	11.41
Total					239.59
Contractor's profit & overhead				20%	47.92
Total Composite Rate					296.95
					296.95
D. Shingle or gravel					
Cu.m. i) 95% maximum modified AASHTO dry density					
1. Labour					
Labourer	0.09	Hrs	@	87.5	7.88
Contractor's profit & overhead				20%	1.58
Total Labour Rate					9.45
					9.45
2. Machinery					
Bulldozer 90HP	0.030	Hrs	@	3,597.00	107.91
Motor grader 165 H.P.	0.030	Hrs	@	3,597.00	107.91
Vibratory roller 10-12 Ton	0.040	Hrs	@	1,772.00	70.88
Tractor with trolley	0.020	Hrs	@	544.00	10.88
Water bowser	0.080	Hrs	@	583.00	46.64
					344.22
Water Charges				7%	24.10
					368.32
Sundries				5%	18.42
Total					386.73
Contractor's profit & overhead				20%	77.35
Total Composite Rate					473.53
					473.55
Cu.m. ii) 90% maximum modified AASHTO dry density					
1. Labour					
Labourer	0.09	Hrs	@	87.5	7.88
Contractor's profit & overhead				20%	1.58
Total Labour Rate					9.45
					9.45
2. Machinery					
Bulldozer 90HP	0.030	Hrs	@	3,597.00	107.91
Motor grader 165 H.P.	0.030	Hrs	@	3,597.00	107.91
Vibratory roller 10-12 Ton	0.030	Hrs	@	1,772.00	53.16
Tractor with trolley	0.020	Hrs	@	544.00	10.88
Water bowser	0.080	Hrs	@	583.00	46.64
					326.50
Water Charges				7%	22.86
					349.36
Sundries				5%	17.47
Total					366.82
Contractor's profit & overhead				20%	73.36
Total Composite Rate					449.64
					449.65
Cu.m. iii) 85% maximum modified AASHTO dry density					
1. Labour					
Labourer	0.09	Hrs	@	87.5	7.88
Contractor's profit & overhead				20%	1.58
Total Labour Rate					9.45
					9.45

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Machinery				
Bulldozer 90HP	0.030 Hrs @	3,597.00	107.91	
Motor grader 165 H.P.	0.030 Hrs @	3,597.00	107.91	
Vibratory roller 10-12 Ton	0.020 Hrs @	1,772.00	35.44	
Tractor with trolley	0.020 Hrs @	544.00	10.88	
Water bowser	0.080 Hrs @	583.00	46.64	
			308.78	
Water Charges		7%	21.61	
			330.39	
Sundries		5%	16.52	
Total			346.91	
Contractor's profit & overhead		20%	69.38	
Total Composite Rate			425.75	425.75

Item No. 3 - 6

Earthwork for embankment lead upto 100 ft. (30m) and compaction by Manual (Maximum Area 250 Sft) labour at optimum moisture content, dressing to designed section, laying, leveling and watering.

Cu.m. a) Sand

1. Excavation lead upto 30 m.

Labourer	1.85	Hrs	@	87.5	161.88
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2. Laying, leveling, dressing and watering

Dresser	0.25	Hrs	@	87.5	21.88
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Labourer	0.05	Hrs	@	87.5	4.38
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Bahishti	0.1	Hrs	@	87.5	8.75
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35.00

3. Ramming

Labourer	0.45	Hrs	@	87.5	39.38
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236.25

Total of 1,2 & 3					236.25
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Contractor's profit & overhead				20%	47.25
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283.50
283.50**Cu.m. b) Ordinary soil**

1. Excavation lead upto 30 m.

Labourer	2.3	Hrs	@	87.5	201.25
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2. Laying, leveling, dressing and watering

Dresser	0.25	Hrs	@	87.5	21.88
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Labourer	0.05	Hrs	@	87.5	4.38
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Bahishti	0.1	Hrs	@	87.5	8.75
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35.00

3. Ramming

Labourer	0.45	Hrs	@	87.5	39.38
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275.63

Total of 1,2 & 3					275.63
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Contractor's profit & overhead				20%	55.13
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330.75
330.75**Cu.m. c) Hard soil**

1. Excavation lead upto 30 m

Labourer	3.5	Hrs	@	87.5	306.25
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2. Laying, levelling, dressing and watering

Dresser	0.25	Hrs	@	87.5	21.88
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Labourer	0.05	Hrs	@	87.5	4.38
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Bahishti	0.1	Hrs	@	87.5	8.75
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35.00

3. Ramming

Labourer	0.9	Hrs	@	87.5	78.75
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420.00

Total of 1, 2 & 3					420.00
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Contractor's profit & overhead				20%	84.00
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504.00
504.00**Cu.m. d) Shingle or gravel**

1. Excavation lead upto 30 m

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
Labourer		5.25	Hrs	@	87.5	459.38
2. Laying, levelling, dressing and watering						
Dresser		0.25	Hrs	@	87.5	21.88
Labourer		0.05	Hrs	@	87.5	4.38
Bahishti		0.1	Hrs	@	87.5	8.75
						35.00
3. Ramming						
Labourer		0.9	Hrs	@	87.5	78.75
Total of 1, 2 & 3						573.13
Contractor's profit & overhead					20%	114.63
Total Labour Rate						687.75
						687.75

Item No. 3 - 7

Earthwork excavation in open cutting upto 5ft. (1.5m) depth for storm water channels, drains in open area, roads, streets lanes and shoring to protect existing works, shuttering and timbering the trenches dressed to designed level and dimension, trimming from trenches, backfilling and disposal of surplus excavated material upto 50ft (15m) including dressing, excluding removal of surface water from drains.

Cu.m. a) In ashes, sand, soft soil or silt clearance.

1. Labour						
Labourer		0.03	Hrs	@	87.5	2.63
Dresser		0.07	Hrs	@	87.5	6.13
Carpenter special		0.07	Hrs	@	125	8.75
Total						17.50
Contractor's profit & overhead					20%	3.50
Total Labour Rate						21.00
						21.00
2. Material						
Shuttering					9%	1.49
3. Equipment						
Excavator		0.025	Hrs	@	2500	62.50
Wheel Tractor with Blade		0.09	Hrs	@	650	58.50
Total						122.49
Contractor's profit & overheads					20%	24.50
Total						146.99
Total Composite rate						169.47
						169.45

Cu.m. b) Ordinary soil

1. Labour						
Labourer		0.04	Hrs	@	87.5	3.50
Dresser		0.07	Hrs	@	87.5	6.13
Carpenter special		0.07	Hrs	@	125	8.75
Total						18.38
Contractor's profit & overhead					20%	3.50
Total Labour Rate						21.88
						21.90
2. Material						
Shuttering					9%	1.56
3. Equipment						
Excavator		0.033	Hrs	@	2500	82.50
Wheel Tractor with Blade		0.12	Hrs	@	650	78.00
Total						160.50
Contractor's profit & overheads					20%	32.10
Total						192.60
Total Composite rate						216.04
						216.05

Cu.m. c) Hard soil

1. Labour						
Labourer		0.05	Hrs	@	87.5	4.38
Dresser		0.07	Hrs	@	87.5	6.13
Carpenter special		0.07	Hrs	@	125	8.75
Total						19.25

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	3.50	
	Total Labour Rate		22.75	22.75
	2. Material			
	Shuttering	9%	1.64	
	3. Equipment			
	Excavator	0.04	Hrs @ 2500	100.00
	Wheel Tractor with Blade	0.15	Hrs @ 650	97.50
	Total			197.50
	Contractor's profit & overheads	20%	39.50	
	Total		237.00	
	Total Composite rate		261.39	261.40

Cu.m. d) Shingle or gravel

	1. Labour				
	Labourer	0.06	Hrs @ 87.5	5.25	
	Dresser	0.07	Hrs @ 87.5	6.13	
	Carpenter special	0.07	Hrs @ 125	8.75	
	Total			20.13	
	Contractor's profit & overhead	20%	3.50		
	Total Labour Rate			23.63	23.65
	2. Material				
	Shuttering	9%		1.71	
	3. Equipment				
	Excavator	0.05	Hrs @ 2500	125.00	
	Wheel Tractor with Blade	0.2	Hrs @ 650	130.00	
	Total			255.00	
	Contractor's profit & overheads	20%	51.00		
	Total			306.00	
	Total Composite rate			331.34	331.35

Item No. 3 - 8

Earthwork excavation in open cutting from 5ft. to 10 ft (1.5m to 3 m) depth for storm water channels, drains in open area, roads, streets lanes and shoring to protect existing works, shuttering and timbering the trenches dressed to designed level and dimension, trimming from trenches, backfilling and disposal of surplus excavated material upto 100 ft (30 m) including dressing, excluding removal of surface water from drains.

Cu.m. a) In ashes, sand, soft soil or silt clearance.

	1. Labour				
	Labourer	0.39	Hrs @ 87.5	34.13	
	Dresser	0.09	Hrs @ 87.5	7.88	
	Carpenter special	0.07	Hrs @ 125	8.75	
	Total			50.75	
	Contractor's profit & overhead	20%	3.50		
	Total Labour Rate			54.25	54.25
	2. Material				
	Shuttering	9%		4.31	
	3. Equipment				
	Excavator	0.025	Hrs @ 2500	62.50	
	Wheel Tractor with Blade	0.09	Hrs @ 650	58.50	
	Total			125.31	
	Contractor's profit & overheads	20%	25.06		
	Total			150.38	
	Total Composite rate			208.94	208.95

Cu.m. b) Ordinary soil

	1. Labour				
	Labourer	0.45	Hrs @ 87.5	39.38	

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
	Dresser	0.09	Hrs	@	87.5	7.88	
	Carpenter special	0.07	Hrs	@	125	8.75	
	Total					56.00	
	Contractor's profit & overhead				20%	3.50	
	Total Labour Rate					59.50	59.50
	2. Material						
	Shuttering				9%	4.76	
	3. Equipment						
	Excavator	0.033	Hrs	@	2500	82.50	
	Wheel Tractor with Blade	0.12	Hrs	@	650	78.00	
	Total					160.50	
	Contractor's profit & overheads				20%	32.10	
	Total					192.60	
	Total Composite rate					256.86	256.85
Cu.m. c)	Hard soil						
	1. Labour						
	Labourer	0.5	Hrs	@	87.5	43.75	
	Dresser	0.15	Hrs	@	87.5	13.13	
	Carpenter special	0.07	Hrs	@	125	8.75	
	Total					65.63	
	Contractor's profit & overhead				20%	3.50	
	Total Labour Rate					69.13	69.15
	2. Material						
	Shuttering				9%	5.58	
	3. Equipment						
	Excavator	0.04	Hrs	@	2500	100.00	
	Wheel Tractor with Blade	0.15	Hrs	@	650	97.50	
	Total					197.50	
	Contractor's profit & overheads				20%	39.50	
	Total					237.00	
	Total Composite rate					311.70	311.70
Cu.m. d)	Shingle or gravel						
	1. Labour						
	Labourer	0.6	Hrs	@	87.5	52.50	
	Dresser	0.2	Hrs	@	87.5	17.50	
	Carpenter special	0.07	Hrs	@	125	8.75	
	Total					78.75	
	Contractor's profit & overhead				20%	3.50	
	Total Labour Rate					82.25	82.25
	2. Material						
	Shuttering				9%	6.69	
	3. Equipment						
	Excavator	0.05	Hrs	@	2500	125.00	
	Wheel Tractor with Blade	0.18	Hrs	@	650	117.00	
	Total					242.00	
	Contractor's profit & overheads				20%	48.40	
	Total					290.40	
	Total Composite rate					379.34	379.35
	Item No. 3 - 9						
	Excavation in shingle or gravel formation, undressed lead upto 100 ft. (30m)						
	a) Manual (Maximum Area 250 Sft)						
Cu.m. i)	Dry						
	Labourer	3.16	Hrs	@	87.50	276.50	
	Contractor's profit & overhead				20%	55.30	
	Total Labour Rate					331.80	331.80
Cu.m. ii)	Wet						
	Labourer	4.97	Hrs	@	87.50	434.88	

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Contractor's profit & overhead				20%	86.98
	Total Labour Rate					521.85
						521.85
Cu.m. iii)	In flowing water					
	6.33	Hrs	@	87.50	553.88	
	Contractor's profit & overhead				20%	110.78
	Total Labour Rate					664.65
						664.65
Cu.m. iv)	Under water including dewatering					
	1. Wet					
	6.25	Hrs	@	87.50	546.88	
	Contractor's profit & overhead				20%	109.38
	Total Labour Rate					656.25
						656.30
	2. Bailing or Pumping out water					
	0.50	Hrs	@	300.00	150.00	
	0.50	Hrs	@	87.50	43.75	
						193.75
	Contractor's profit & overheads				20%	38.75
	Total					232.50
	Total Composite rate					888.75
						888.75
	b) Machinery					
Cu.m. i)	Dry					
	0.06	Hrs	@	2500.00	150.00	
	Contractor's profit & overhead				20%	30.00
	Total Labour Rate					180.00
						180.00
Cu.m. ii)	Wet					
	0.08	Hrs	@	2500.00	200.00	
	Contractor's profit & overhead				20%	40.00
	Total Labour Rate					240.00
						240.00
Cu.m. iii)	In flowing water					
	0.10	Hrs	@	2500.00	250.00	
	Contractor's profit & overhead				20%	50.00
	Total Labour Rate					300.00
						300.00
Cu.m. iv)	Under water including dewatering					
	1. Wet					
	1.50	Hrs	@	87.50	131.25	
	Contractor's profit & overhead				20%	26.25
	Total Labour Rate					157.50
						157.50
	2. Bailing or Pumping out water					
	0.50	Hrs	@	300.00	150.00	
	0.12	Hrs	@	2500.00	300.00	
						450.00
	Contractor's profit & overheads				20%	90.00
	Total					540.00
	Total Composite rate					697.50
						697.50
Item No. 3 - 10						
Earthwork excavation in irrigation channels drains etc. to designed section, grades and profiles excavated material disposed off and dressed within 50 ft (15m) lead.						
	a) Manual (Maximum Area 250 Sft)					
Cu.m. i)	In ashes, sand, soft soil or silt clearance.					
	Excavation					
	1.40	Hrs	@	87.50	122.50	
	0.18	Hrs	@	87.50	15.75	
	Total					138.25
	Contractor's profit & overhead				20%	27.65
	Total Labour Rate					165.90
						165.90

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Cu.m. ii) Ordinary soil	Excavation				
	Labourer	1.75	Hrs @	87.50	153.13
	Dresser	0.25	Hrs @	87.50	21.88
	Total				175.00
	Contractor's profit & overhead			20%	35.00
	Total Labour rate				210.00
					210.00
Cu.m. iii) Hard soil	Excavation				
	Labourer	2.25	Hrs @	87.50	196.88
	Dresser	0.33	Hrs @	87.50	28.88
	Total				225.75
	Contractor's profit & overhead			20%	45.15
	Total Labour rate				270.90
					270.90
Cu.m. iv) Shingle or gravel formation	Excavation				
	Labourer	3.50	Hrs @	87.50	306.25
	Dresser	0.65	Hrs @	87.50	56.88
	Total				363.13
	Contractor's profit & overhead			20%	72.63
	Total Labour rate				435.75
					435.75
b) Machinery					
Cu.m. i) In ashes, sand, soft soil or silt clearance.	1. Labour				
	Labourer	0.025	Hrs @	87.5	2.19
	Dresser	0.07	Hrs @	87.5	6.13
	Total				8.31
	Contractor's profit & overhead			20%	3.50
	Total Labour Rate				11.81
					11.80
	2. Equipment				
	Excavator	0.025	Hrs @	2500	62.50
	Wheel Tractor with Blade	0.07	Hrs @	650	45.50
	Total				108.00
	Contractor's profit & overheads			20%	21.60
	Total				129.60
	Total Composite rate				141.41
					141.40
Cu.m. ii) Ordinary soil	1. Labour				
	Labourer	0.033	Hrs @	87.5	2.89
	Dresser	0.09	Hrs @	87.5	7.88
	Total				10.76
	Contractor's profit & overhead			20%	3.50
	Total Labour Rate				14.26
					14.25
	2. Equipment				
	Excavator	0.033	Hrs @	2500	82.50
	Wheel Tractor with Blade	0.09	Hrs @	650	58.50
	Total				141.00
	Contractor's profit & overheads			20%	28.20
	Total				169.20
	Total Composite rate				183.46
					183.45
Cu.m. iii) Hard soil	1. Labour				
	Labourer	0.04	Hrs @	87.5	3.50

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
	Dresser	0.12	Hrs	@	87.5	10.50	
	Total					14.00	
	Contractor's profit & overhead				20%	3.50	
	Total Labour Rate					17.50	17.50
	2. Equipment						
	Excavator	0.04	Hrs	@	2500	100.00	
	Wheel Tractor with Blade	0.12	Hrs	@	650	78.00	
	Total					178.00	
	Contractor's profit & overheads				20%	35.60	
	Total					213.60	
	Total Composite rate					231.10	231.10
Cu.m.	iv) Shingle or gravel formation						
	1. Labour						
	Labourer	0.06	Hrs	@	87.5	5.25	
	Dresser	0.15	Hrs	@	87.5	13.13	
	Total					18.38	
	Contractor's profit & overhead				20%	3.50	
	Total Labour Rate					21.88	21.90
	2. Equipment						
	Excavator	0.06	Hrs	@	2500	150.00	
	Wheel Tractor with Blade	0.15	Hrs	@	650	97.50	
	Total					247.50	
	Contractor's profit & overheads				20%	49.50	
	Total					297.00	
	Total Composite rate					318.88	318.90
	Item No. 3 - 11						
	Excavation in rock dressed to designed section, grades and profiles, excavated material disposed of within 100 ft.(30 m) & lift upto 6.5 ft. (2m.)						
Cu.m.	a) Soft rock, slate, shale, work, with pick and crow bar.						
	1. Labour						
	Dresser	0.50	Hrs	@	87.50	43.75	
	Bahishti	0.25	Hrs	@	87.50	21.88	
						65.63	
	Contractor's profit & overhead				20%	13.13	
	Total Labour rate					78.75	78.75
	2. Plant and Machinery						
	Jack Hammer	0.10	Hrs	@	4500.00	450.00	
						450.00	
	Contractor's profit & overhead				20%	90.00	
	Total Labour rate					540.00	540.00
Cu.m.	b) Medium hard rock schist or laterite requiring occasional						
	1. Labour						
	Black smith	0.23	Hrs	@	112.00	25.76	
	Mate	0.11	Hrs	@	87.50	9.63	
	Hammer man	0.23	Hrs	@	87.50	20.13	
	Dresser	0.45	Hrs	@	87.50	39.38	
	Labourer	5.69	Hrs	@	87.50	497.88	
	Bahishti	0.30	Hrs	@	87.50	26.25	
						619.01	
	Contractor's profit & overhead				20%	123.80	
	Total Labour rate					742.81	742.80
	2. Material						
	Blasting Powder etc.				10%	61.90	
	Contractor's profit & overhead				20%	12.38	
	Total					74.28	
	Total Composite rate					817.09	817.10

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 3 - 12				
Excavation in hard rock requiring blasting and disposal of excavated material (blasted material) upto 50 ft. (15m) lead, (including dressing and levelling to designated section).				
Cu.m. a)	Grade I			
	1. Labour			
	Black smith	0.11	Hrs @ 112.00	12.32
	Chiseller	0.23	Hrs @ 90.00	20.70
	Skilled labourer	0.06	Hrs @ 90.00	5.40
	Quarry man	2.26	Hrs @ 87.50	197.75
	Labourer	1.36	Hrs @ 87.50	119.00
	Bahishti	0.11	Hrs @ 87.50	9.63
				<u>364.80</u>
	Contractor's profit & overhead		20%	72.96
	Total Labour rate			<u>437.75</u>
				437.75
	2. Material			
	Blasting Powder etc.		25%	91.20
	Contractor's profit & overhead		20%	18.24
	Total			<u>109.44</u>
	Total Composite rate			<u>547.19</u>
				547.20
Cu.m. b)	Grade II			
	1. Labour	20% extra from Grade 1		494.66
	Total Composite rate	20% extra from Grade 1		<u>673.06</u>
				673.05
Cu.m. c)	Grade III			
	1. Labour	20% extra from Grade 2		554.01
	Total Composite rate	20% extra from Grade 2		<u>760.55</u>
				760.50
Cu.m. d)	Grade IV			
	1. Labour			
	Black smith	0.23	Hrs @ 112.00	25.76
	Chiseller	0.45	Hrs @ 90.00	40.50
	Skilled labourer	0.23	Hrs @ 90.00	20.70
	Quarry man	3.39	Hrs @ 87.50	296.63
	Labourer	1.36	Hrs @ 87.50	119.00
	Bahishti	0.17	Hrs @ 87.50	14.88
				<u>517.46</u>
	Contractor's profit & overhead		20%	103.49
	Total Labour rate			<u>620.95</u>
				621.00
	2. Material			
	Blasting Powder etc.		40%	206.98
	Contractor's profit & overhead		20%	41.40
	Total			<u>248.38</u>
	Total Composite rate			<u>869.33</u>
				869.30
Cu.m. e)	Grade V			
	1. Labour	10% extra from Grade IV		720.36
	Total Composite rate	10% extra from Grade IV		<u>938.84</u>
				938.80
Cu.m. f)	Grade VI			
	1. Labour	7% extra from Grade V		799.59
				799.60

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Total Composite rate	7% extra from Grade V		985.74	985.75
Item No. 3 - 13				
Excavation in hard rock requiring blasting but blasting prohibited and disposal of excavated material within 50 ft. (15m) lead, (including dressing and levelling to designed section etc.).				
Cu.m. a) Grade I				
1. Labour				
Black smith	1.00	Hrs @	112.00	112.00
Chiseller	0.10	Hrs @	90.00	9.00
Skilled labourer	0.10	Hrs @	90.00	9.00
Quarry man	3.04	Hrs @	87.50	266.00
Labourer	0.10	Hrs @	87.50	8.75
Bahishti	1.00	Hrs @	87.50	87.50
				492.25
Contractor's profit & overhead		20%		98.45
Total Labour rate				590.70
2. Tool & Plant				
Additional tools etc.			25%	123.06
Contractor's profit & overhead			20%	24.61
Total				147.68
Total Composite rate				738.40
Cu.m. b) Grade II				
1. Labour	25% extra from Grade 1			667.49
Total Composite rate	25% extra from Grade I			841.75
Cu.m. c) Grade III				
1. Labour	25% extra from Grade 2			754.28
Total Composite rate	25% extra from Grade 2			1052.20
Cu.m. d) Grade IV				
1. Labour				
Black smith	0.75	Hrs @	112.00	84.00
Chiseller	0.75	Hrs @	90.00	67.50
Skilled labourer	0.75	Hrs @	90.00	67.50
Quarry man	1.01	Hrs @	87.50	88.38
Labourer	4.22	Hrs @	87.50	369.25
Bahishti	0.36	Hrs @	87.50	31.50
				708.13
Contractor's profit & overhead		20%		141.63
Total Labour rate				849.75
2. Tool & Plant				
Additional tools etc.			20%	141.63
Contractor's profit & overhead			20%	28.33
Total				169.95
Total Composite rate				1,019.70
Cu.m. e) Grade V				
1. Labour	10% extra from Grade IV			1,011.20
Total Composite rate	10% extra from Grade IV			769.00
Cu.m. f) Grade VI				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
1. Labour	10% extra from Grade V		1,070.86	1070.85
Total Composite rate	10% extra from Grade V		1233.84	830.00
Item No. 3 - 14				
Rehandling of earthwork				
Cu.m. a)	Lead upto a single throw of Kassi, phaorah or shovel			
	Labourer	0.70	Hrs @ 87.50	61.25
	Contractor's profit & overhead		20%	12.25
	Total Labour rate			73.50
Cu.m. b)	Upto a lead of 50 ft. (15 m.)			
	Labourer	1.00	Hrs @ 87.50	87.50
	Contractor's profit & overhead		20%	17.50
	Total Labour rate			105.00
Cu.m. c)	Upto a lead of 100 ft. (30 m.)			
	Labourer	1.30	Hrs @ 87.50	113.75
	Contractor's profit & overhead		20%	22.75
	Total Labour rate			136.50
Item No. 3 - 15-1				
Cu.m.	Rehandling of gravel work or excavated rock, lead upto 50 ft. (15m.)			
	Labourer	2.26	Hrs @ 87.50	197.75
	Contractor's profit & overhead		20%	39.55
	Total Labour rate			237.30
Item No. 3 - 16				
Filling, watering and compacting earth under floors in layers not exceeding 8 inches in thickness.				
Cu.m. a)	With surplus earth from foundation etc.			
1. Labour				
	Digger	0.30	Hrs @ 87.50	26.25
	Earth carrier	0.15	Hrs @ 96.00	14.40
	Bahishti	0.11	Hrs @ 87.50	9.63
				50.28
	Contractor's profit & overhead		20%	10.06
	Total Labour rate			60.33
2. Equipment				
	Plate Compactor	0.09	Hrs @ 300.00	27.00
	Frog Compactor	0.09	Hrs @ 350.00	31.50
	Water Charges		5%	2.93
				61.43
	Contractor's profit & overhead		20%	12.29
	Total Composite rate			134.06
Cu.m. b)	With new earth excavated from outside, lead upto 100 ft.			
1. Labour				
	Digger	0.30	Hrs @ 87.50	26.25
	Earth carrier	0.15	Hrs @ 96.00	14.40
	Bahishti	0.11	Hrs @ 87.50	9.63
				50.28
	Contractor's profit & overhead		20%	10.06
	Total Labour rate			60.33
2. Material				
	Royalty of new earth	1.20	Cu,m @ 70.62	84.74

Unit	Description			Component Cost	Unit Rate
				(Rs)	(Rs)
	3. Equipment				
	Plate Compactor	0.09	Hrs @	300.00	27.00
	Frog Compactor	0.09	Hrs @	350.00	31.50
	Water Charges			5%	2.93
	Total of 2 & 3				146.17
	Contractor's profit & overhead			20%	29.23
	Total Composite rate				235.73
					235.75
Cu.m. c)	With sand excavated from outside, lead upto 25 km including royalty of sand, no additional lead shall be paid without prior approval of Engineer incharge.				
	1. Labour				
	Bahishti	0.11	Hrs @	87.50	9.63
					9.63
	Contractor's profit & overhead			20%	1.93
	Total Labour rate				11.55
					11.55
	2. Material				
	Royalty of sand (including lead of 25 km)	1.20	Cu,m @	882.75	1,059.30
	3. Equipment				
	Plate Compactor	0.18	Hrs @	300.00	54.00
	Total of 2 & 3				1,113.30
	Contractor's profit & overhead			20%	222.66
	Total Composite rate				1,347.51
					1347.50
	Item No. 3 - 17				
	Filling, watering and ramming earth under floors for every 50 ft. (15m) additional lead or part thereof (Maximum upto 1000 ft.) (300 m)				
Cu.m. a)	For earthwork soft, ordinary, hard and very hard				
	Labourer	0.02	Hrs @	87.50	2.10
	Contractor's profit & overhead			20%	0.42
	Total Labour rate				2.52
					2.50
Cu.m. b)	For gravel, shingle or rock				
	Labourer	0.03	Hrs @	87.50	2.71
	Contractor's profit & overhead			20%	0.54
	Total Labour rate				3.26
					3.25
	Item No. 3 - 18				
	Dressing and levelling of earthwork to designed section.				
Cu.m. a)	Ashes, sand, silt or soft soil				
	Dresser	0.05	Hrs @	87.50	4.38
	Labourer	0.03	Hrs @	87.50	2.63
					7.00
	Contractor's profit & overhead			20%	1.40
	Total Labour rate				8.40
					8.40
Cu.m. b)	Ordinary or hard soil				
	Dresser	0.11	Hrs @	87.50	9.63
	Labourer	0.03	Hrs @	87.50	2.63
					12.25
	Contractor's profit & overhead			20%	2.45
	Total Labour rate				14.70
					14.70
Cu.m. c)	Gravel work or soft rock not requiring blasting				
	Quarry man	0.23	Hrs @	87.50	20.13
	Labourer	0.11	Hrs @	87.50	9.63
					29.75
	Contractor's profit & overhead			20%	5.95

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		35.70	35.70
	Item No. 3 - 19 - 1			
	Dressing dowels of canal banks, marginal bunds and flood			
	Dresser	0.04	Hrs @ 87.50	3.50
	Labourer	0.02	Hrs @ 87.50	1.75
				5.25
	Contractor's profit & overhead		20%	1.05
	Total Labour rate		6.30	6.30
	Item No. 3 - 20			
Sq.m. a)	Dressing slopes of banks or ground surface			
	Labourer	0.09	Hrs @ 87.50	7.88
	Contractor's profit & overhead		20%	1.58
	Total Labour rate		9.45	9.45
Sq.m. b)	Dressing of earthwork by machinery or otherwise and left undressed			
	Labourer	0.16	Hrs @ 87.50	14.00
	Contractor's profit & overhead		20%	2.80
	Total Labour rate		16.80	16.80
	Item No. 3 - 21			
	Excavation in foundation of buildings and bridges including layout, dressing, refilling around structures with excavated earth, watering & ramming lead upto 100 ft. (30m) & lift upto 5 ft. (1.5m)			
	a) Manual (Maximum Area 250 Sft)			
Cu.m. i)	Sand, ashes or loose soil			
	Dresser	0.23	Hrs @ 87.50	20.13
	Labourer	1.81	Hrs @ 87.50	158.38
				178.50
	Contractor's profit & overhead		20%	35.70
	Total Labour rate		214.20	214.20
Cu.m. ii)	Ordinary soil			
	Dresser	0.34	Hrs @ 87.50	29.75
	Labourer	2.03	Hrs @ 87.50	177.63
				207.38
	Contractor's profit & overhead		20%	41.48
	Total Labour rate		248.85	248.90
Cu.m. iii)	Hard soil or soft murum			
	Dresser	0.40	Hrs @ 87.50	35.00
	Labourer	2.26	Hrs @ 87.50	197.75
				232.75
	Contractor's profit & overhead		20%	46.55
	Total Labour rate		279.30	279.30
Cu.m. iv)	Shingle or gravel			
	Dresser	0.50	Hrs @ 87.50	43.75
	Labourer	2.60	Hrs @ 87.50	227.50
				271.25
	Contractor's profit & overhead		20%	54.25
	Total Labour rate		325.50	325.50
	b) Mechanical			
Cu.m. i)	Sand			

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
1. Labour							
Labourer	0.3	Hrs	@	87.5	26.25		
Dresser	0.18	Hrs	@	87.5	15.75		
Total					42.00		
Contractor's profit & overhead				20%	3.50		
Total Labour Rate					45.50		45.50
2. Equipment							
Excavator	0.033	Hrs	@	2500	82.50		
Tractor with trolley	0.05	Hrs	@	544	27.20		
Total					109.70		
Contractor's profit & overheads				20%	21.94		
Total					131.64		
Total Composite rate					177.14		177.15
Cu.m. ii) Ordinary soil							
1. Labour							
Labourer	0.4	Hrs	@	87.5	35.00		
Dresser	0.24	Hrs	@	87.5	21.00		
Total					56.00		
Contractor's profit & overhead				20%	3.50		
Total Labour Rate					59.50		59.50
2. Equipment							
Excavator	0.05	Hrs	@	2500	125.00		
Tractor with trolley	0.05	Hrs	@	544	27.20		
Total					152.20		
Contractor's profit & overheads				20%	30.44		
Total					182.64		
Total Composite rate					242.14		242.15
Cu.m. iii) Hard soil							
1. Labour							
Labourer	0.5	Hrs	@	87.5	43.75		
Dresser	0.33	Hrs	@	87.5	28.88		
Total					72.63		
Contractor's profit & overhead				20%	3.50		
Total Labour Rate					76.13		76.15
2. Equipment							
Excavator	0.06	Hrs	@	2500	150.00		
Tractor with trolley	0.07	Hrs	@	544	38.08		
Total					188.08		
Contractor's profit & overheads				20%	37.62		
Total					225.70		
Total Composite rate					301.82		301.80
Cu.m. iv) Shingle or gravel formation							
1. Labour							
Labourer	0.6	Hrs	@	87.5	52.50		
Dresser	0.4	Hrs	@	87.5	35.00		
Total					87.50		
Contractor's profit & overhead				20%	3.50		
Total Labour Rate					91.00		91.00
2. Equipment							
Excavator	0.075	Hrs	@	2500	187.50		
Tractor with trolley	0.07	Hrs	@	544	38.08		
Total					225.58		
Contractor's profit & overheads				20%	45.12		
Total					270.70		
Total Composite rate					361.70		361.70

Item No. 3 - 22 - 1

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Cu.m.	Cutting hard rock such as granite, ballast, hard lime stone or sand stone etc. with chisels and hammers for small foundation.				
	1. Labour				
	Black smith	1.58	Hrs @	112.00	176.96
	Hammer man	6.33	Hrs @	87.50	553.88
	Skilled labourer	6.33	Hrs @	90.00	569.70
	Labourer	1.58	Hrs @	87.50	138.25
					1,438.79
	Contractor's profit & overhead			20%	287.76
	Total Labour rate				1,726.54
					1726.50
	2. Material				
	Steel-Mild	0.65	Kg. @	82.00	53.30
	Charcoal	6.40	Kg. @	15.00	96.00
					149.30
	3. Machinery				
	Chisels and hammers etc			5%	79.40
	Total of 2 & 3				228.70
	Contractor's profit & overhead			20%	45.74
	Total				274.45
	Total Composite rate				2,000.99
					2001.00
	Item No. 3 - 23 - 1				
Cu.m.	Extra for excavation requiring shoring.				
	1. Labour				
	Carpenter special	0.06	Hrs @	125.00	7.50
	Labourer	0.23	Hrs @	87.50	20.13
					27.63
	Contractor's profit & overhead			20%	5.53
	Total Labour rate				33.15
					33.20
	2. Material				
	Shuttering			43%	11.88
	Contractor's profit & overhead			20%	2.38
	Total				14.25
	Total Composite rate				47.40
					47.40
	Item No. 3 - 24				
	Manual (Maximum Area 250 Sft) Compaction of earthwork (soft, ordinary, or hard soil)				
Cu.m. a)	Mixing, moisturing earth to optimum moisture content in				
	Dresser	0.17	Hrs @	87.50	14.88
	Labourer	0.03	Hrs @	87.50	2.63
	Bahishti	0.07	Hrs @	87.50	6.13
					23.63
	Contractor's profit & overhead			20%	4.73
	Total Labour rate				28.35
					28.40
Cu.m. b)	Compaction by rolling with animal driven roller/hand				
i)	Soft and sandy soil				
	Bullock man	0.33	Hrs @	87.50	28.88
	Labourer	0.11	Hrs @	87.50	9.63
	Bullock	0.10	Hrs @	120.00	12.00
					50.50
	Watering			1.5%	0.76
					51.26
	Contractor's profit & overhead			20%	10.25
	Total Labour rate				61.51
					61.50

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
Cu.m. ii)	Ordinary soil					
	Bullock man	0.38	Hrs	@ 87.50	33.25	
	Labourer	0.11	Hrs	@ 87.50	9.63	
	Bullock	0.10	Hrs	@ 120.00	12.00	
					<u>54.88</u>	
	Watering			1.5%	0.82	
					<u>55.70</u>	
	Contractor's profit & overhead			20%	11.14	
	Total Labour rate				<u>66.84</u>	66.80
Cu.m. iii)	Hard soil					
	Bullock man	0.38	Hrs	@ 87.50	33.25	
	Labourer	0.17	Hrs	@ 87.50	14.88	
	Bullock	0.10	Hrs	@ 120.00	12.00	
					<u>60.13</u>	
	Watering			1.5%	0.90	
					<u>61.03</u>	
	Contractor's profit & overhead			20%	12.21	
	Total Labour rate				<u>73.23</u>	73.23
Cu.m. iv)	Shingle or gravel					
	Bullock man	0.44	Hrs	@ 87.50	38.50	
	Labourer	0.17	Hrs	@ 87.50	14.88	
	Bullock	0.10	Hrs	@ 120.00	12.00	
					<u>65.38</u>	
	Watering			1.5%	0.98	
					<u>66.36</u>	
	Contractor's profit & overhead			20%	13.27	
	Total Labour rate				<u>79.63</u>	79.63
Cu.m. c)	Ramming earth work (all type of soil)					
	Labourer	0.34	Hrs	@ 87.50	29.75	
	Watering			1.5%	0.45	
					<u>30.20</u>	
	Contractor's profit & overhead			20%	6.04	
	Total Labour rate				<u>36.24</u>	36.24
Cu.m. d)	Ramming earth work behind retaining wall					
	Labourer	0.45	Hrs	@ 87.50	39.38	
	Watering			1.5%	0.59	
					<u>39.97</u>	
	Contractor's profit & overhead			20%	7.99	
	Total Labour rate				<u>47.96</u>	47.96
Item No. 3 - 25						
Compaction of earthwork in embankment to full depth and width by approved mechanical means in layer not exceeding 10 inches (230mm) in depth at optimum moisture content including watering by mechanical means.						
Cu.m. a)	95% maximum modified AASHTO dry density.					
	Detail of cost for layer 100 sq.m.x 230 mm thick or 23.0 cu.m.					
	1. Labour					
	Labourer	7.00	Hrs	@ 87.50	612.50	
	Contractor's profit & overhead			20%	122.50	
	Total				<u>735.00 (A)</u>	
	Total Labour rate	A/23			31.96	31.95
	2. Plant including fuel and operator					
	Water tanker, 1000 gallon capacity	1.75	Hrs	@ 583.00	1,020.25	

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Road roller 10-12 ton capacity	1.75	Hrs	@	1,154.00	2,019.50
	Motor grader 90 H.P.	0.85	Hrs	@	2,136.00	1,815.60
						4,855.35
	Water Charges				1.5%	72.83
						4,928.18
	Contractor's profit & overhead				20%	985.64
	Total					5,913.82 (B)
	Total for 23.0 Cu.m.					6,648.82
	Total Composite rate	(A + B)/23				289.08
						289.10
Cu.m.	b) 90% maximum modified AASHTO dry density.					
	1. Labour					
	Labourer	7.00	Hrs	@	87.50	612.50
	Contractor's profit & overhead				20%	122.50
	Total					735.00 (A)
	Total Labour rate	A/23				31.96
						31.95
	2. Plant including fuel and operator					
	Water tanker, 1000 gallon capacity	1.25	Hrs	@	583.00	728.75
	Road roller 10-12 ton capacity	1.25	Hrs	@	1,154.00	1,442.50
	Motor grader 90 H.P.	0.85	Hrs	@	2,136.00	1,815.60
						3,986.85
	Water Charges				1.5%	59.80
						4,046.65
	Contractor's profit & overhead				20%	809.33
	Total					4,855.98
	Total for 23.0 Cu. M.					5,590.98 (B)
	Total Composite rate	(A + B)/23				243.09
						243.10
Cu.m.	c) 85% maximum modified AASHTO dry density.					
	1. Labour					
	Labourer	7.00	Hrs	@	87.50	612.50
	Contractor's profit & overhead				20%	122.50
	Total					735.00 (A)
	Total Labour rate	A/23				31.96
						30.10
	2. Plant including fuel and operator					
	Water tanker, 1000 gallon capacity	1.00	Hrs	@	583.00	583.00
	Road roller 10-12 ton capacity	1.00	Hrs	@	1,154.00	1,154.00
	Motor grader 90 H.P.	0.85	Hrs	@	2,136.00	1,815.60
						3,552.60
	Water Charges				1.5%	53.29
						3,605.89
	Contractor's profit & overhead				20%	721.18
	Total					4,327.07 (B)
	Total for 23.0 Cu. M.					5,062.07
	Total Composite rate	(A + B)/23				220.09
						220.10
Cu.m.	Item No. 3 - 26 - 1					
	Extra for wet earthwork (Supporting man's weight)					
	Labourer	0.68	Hrs	@	87.50	59.50
	Contractor's profit & overhead				20%	11.90
	Total Labour rate					71.40
						71.40

Unit	Description			Component Cost		Unit Rate
				(Rs)	(Rs)	(Rs)
Item No. 3 - 27 - 1						
Cu.m.	Extra for slush or daldal including dewatering (Not					
	Labourer	1.81	Hrs @	87.50	158.38	
	Contractor's profit & overhead			20%	31.68	
	Total Labour rate				190.05	190.05
Item No. 3 - 28 - 1						
Cu.m.	Extra for puddling					
	Labourer	1.07	Hrs @	87.50	93.63	
	Bahishti	0.34	Hrs @	87.50	29.75	
					123.38	
	Contractor's profit & overhead			20%	24.68	
	Total Labour rate				148.05	148.05
Item No. 3 - 29 - 1						
R.M.	Earthwork on small rain water drains, along canal banks, roads and plantation drains dressed.					
	Labourer	0.21	Hrs @	87.50	18.38	
	Contractor's profit & overhead			20%	3.68	
	Total Labour rate				22.05	22.05
Item No. 3 - 30 - 1						
Cu.m.	Filling and compacting soil, earth and boulders behind retaining walls (including excavation of soil and lead upto 50 ft. (15m)					
	Labourer	2.03	Hrs @	87.50	177.63	
	Contractor's profit & overhead			20%	35.53	
	Total Labour rate				213.15	213.15
Item No. 3 - 31						
Km.	a) Dag belling 3" (75 mm.) deep					
	Labourer	14.70	Hrs @	87.50	1,286.25	
	Contractor's profit & overhead			20%	257.25	
	Total Labour rate				1,543.50	1543.50
Km.	a) Cross Sectional Survey for roads using Total Station or					
	Total Station or Differential GPS (GNSS)	1.00	Km @	30,000.00	30,000.00	
	Contractor's profit & overhead			20%	6,000.00	
	Total Labour rate				36,000.00	36000.00
Item No. 3 - 32 - 1						
Sq.m.	Turfing slopes of banks or lawns with grass sods including					
	Labourer	1.15	Hrs @	87.50	100.63	
	Contractor's profit & overhead			20%	20.13	
	Total Labour rate				120.75	120.75
Item No. 3 - 33 - 1						
Cu.m.	Berm Cutting.					
a)	Lead upto a single throw of kassi, phaorah or shovel (without dressing)					

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
	Labourer	1.02	Hrs	@	87.50	89.25	
	Contractor's profit & overhead				20%	17.85	
	Total Labour rate					107.10	107.10
Cu.m. b)	Lead upto 50 ft. (15 m.), including dressing						
	Labourer	2.03	Hrs	@	87.50	177.63	
	Contractor's profit & overhead				20%	35.53	
	Total Labour rate					213.15	213.15
	Item No. 3 - 34						
	Berm trimming both sides of channels.						
Cu.m. a)	Upto 3 ft. (1.0 m) Channel depth						
	Mate	3.00	Hrs	@	87.50	262.50	
	Dresser	6.70	Hrs	@	87.50	586.25	
	Labourer	39.70	Hrs	@	87.50	3,473.75	
						4,322.50	
	Contractor's profit & overhead				20%	864.50	
	Total Labour rate					5,187.00	5187.00
Cu.m. b)	Exceeding 3 ft. to 5 ft. (1.0 m to 1.5 m) Channel depth						
	Mate	3.00	Hrs	@	87.50	262.50	
	Dresser	10.00	Hrs	@	87.50	875.00	
	Labourer	35.00	Hrs	@	87.50	3,062.50	
						4,200.00	
	Contractor's profit & overhead				20%	840.00	
	Total Labour rate					5,040.00	5040.00
Cu.m. c)	Exceeding 5 ft. to 8 ft. (1.5m to 2.5m) Channel depth						
	Mate	3.00	Hrs	@	87.50	262.50	
	Dresser	13.00	Hrs	@	87.50	1,137.50	
	Labourer	50.00	Hrs	@	87.50	4,375.00	
						5,775.00	
	Contractor's profit & overhead				20%	1,155.00	
	Total Labour rate					6,930.00	6930.00
	Item No. 3 - 35						
	Ploughing and levelling borrow pits.						
Hectare a)	Upto 3 ft. (1 m) depth						
	Bullock man	19.75	Hrs	@	87.50	1,728.13	
	Bullock	39.50	Hrs	@	120.00	4,740.00	
						6,468.13	
	Contractor's profit & overhead				20%	1,293.63	
	Total Labour rate					7,761.75	7761.75
Hectare b)	Above 3 ft. (1 m) depth						
	Twice of Item 3-35 (a)	7761.75	x 2			15,523.50	15523.50
	Item No. 3 - 36						

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Making boundary or service roads including dagbelling, levelling and dressing.					
R.M. a)	Unploughed land					
i)	From 10 ft. to 20 ft. (3 m. to 6 m.) wide					
	Dresser	0.13	Hrs	@ 87.50	11.38	
	Labourer	0.27	Hrs	@ 87.50	23.63	
	Total				35.00	
	Contractor's profit & overhead			20%	7.00	
	Total Labour rate				42.00	42.00
	ii) From 20 ft. to 40 ft. (6 m. to 12 m.) wide					
	Dresser	0.27	Hrs	@ 87.50	23.63	
	Labourer	0.27	Hrs	@ 87.50	23.63	
	Total				47.25	
	Contractor's profit & overhead			20%	9.45	
	Total Labour rate				56.70	56.70
R.M. b)	Ploughed Land					
i)	From 10 ft. to 20 ft. (3 m to 6 m) wide					
	Dresser	0.09	Hrs	@ 87.50	7.58	
	Labourer	0.18	Hrs	@ 87.50	15.75	
	Allowance due to ploughed land			5%	1.17	
					24.50	
	Contractor's profit & overhead			20%	4.90	
	Total Labour rate				29.40	29.40
	ii) From 20 ft. to 40 ft. (6 m. to 12 m.) wide					
	Dresser	0.18	Hrs	@ 87.50	15.75	
	Labourer	0.18	Hrs	@ 87.50	15.75	
	Allowance due to ploughed land			5%	1.58	
					33.08	
	Contractor's profit & overhead			20%	6.62	
	Total Labour rate				39.69	39.70
	Item No. 3 - 37					
	Earthwork by boats, including hire charges of boats.					
Cu.m. a)	Digging and loading into boats upto 50 ft. (15 m) lead					
	Labourer	1.70	Hrs	@ 87.50	148.75	
	Contractor's profit & overhead			20%	29.75	
	Total Labour rate				178.50	178.50
Cu.m. b)	Carriage by boats upto 1000 ft. (300 m)					
	Boatman	0.85	Hrs	@ 125.00	106.25	
	Contractor's profit & overhead			20%	21.25	
	Total Labour rate				127.50	127.50
Cu.m. c)	Extra for every additional 100 ft. (30m) or part thereof					
	Boatman	0.05	Hrs	@ 125.00	6.25	
	Contractor's profit & overhead			20%	1.25	
	Total Labour rate				7.50	7.50
Cu.m. d)	un-loading Carriage by boats upto 1000 ft. (300 m)					
	Labourer	0.79	Hrs	@ 87.50	69.13	
	Contractor's profit & overhead			20%	13.83	
	Total Labour rate				82.95	82.95
	Item No. 3 - 38 - 1					
Cu.m.	Unloading earth from B.G. trucks and clearing 5 ft. (1.5 m) from rail					
	Labourer	0.68	Hrs	@ 87.50	59.50	
	Contractor's profit & overhead			20%	11.90	

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		71.40		71.40
Cu.m.	Item No. 3 - 39 - 1 Earthwork by tramway, digging and loading into trucks, upto 50 ft. (15m) lead				
	Labourer	1.58	Hrs @ 87.50	138.25	
	Contractor's profit & overhead		20%	27.65	
	Total Labour rate			165.90	165.90
Cu.m.	Item No. 3 - 40 - 1 Unloading earth from B.G. trucks and spreading upto 50 ft. (15m) from rail				
	Labourer	1.02	Hrs @ 87.50	89.25	
	Contractor's profit & overhead		20%	17.85	
	Total Labour rate			107.10	107.10
Cu.m.	Item No. 3 - 41 - 1 Supplying clean and screened river or pit sand within 500 ft. (150m)				
	Labourer	6.00	Hrs @ 87.50	525.00	
	Contractor's profit & overhead		20%	105.00	
	Total Labour rate			630.00	630.00
	Item No. 3 - 42 Excavation in open cutting for sewers and manholes as shown in drawings, dressing to correct sections and dimensions according to templates and levels and removing surface water in all types of soil except rock (i) The rate includes back filling after laying of sewer, which is payable separately. (ii) The rate for close/open shuttering & timbering will be as per item No. 3-43 & 3-44 where actually used at site.				
Cu.m. a)	Upto 5 ft. (1.5 m) depth	*			
i)	In ashes, sand, soft soil or silt clearance.				
	Labourer	0.03	Hrs @ 87.50	2.19	
	Contractor's profit & overhead		20%	0.44	
	Total Labour rate			2.63	2.65
	2.Equipment				
	Excavator	0.025	Hrs @ 2500	62.50	
	Total			62.50	
	Contractor's profit & overheads		20%	12.50	
	Total			75.00	
	Total Composite rate			77.63	77.65
ii)	Ordinary soil				
	Labourer	0.03	Hrs @ 87.50	2.89	
	Contractor's profit & overhead		20%	0.58	
	Total Labour rate			3.47	3.45
	2.Equipment				
	Excavator	0.033	Hrs @ 2500	82.50	
	Total			82.50	
	Contractor's profit & overheads		20%	16.50	
	Total			99.00	
	Total Composite rate			102.47	102.45
iii)	Hard soil				
	Labourer	0.05	Hrs @ 87.50	4.38	
	Contractor's profit & overhead		20%	0.88	
	Total Labour rate			5.25	5.25
	2.Equipment				
	Excavator	0.05	Hrs @ 2500	125.00	
	Total			125.00	
	Contractor's profit & overheads		20%	25.00	
	Total			150.00	
	Total Composite rate			155.25	155.25

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
iv)	Shingle or gravel						
	Labourer	0.08	Hrs	@	87.50	6.56	
	Contractor's profit & overhead				20%	1.31	
	Total Labour rate					7.88	7.90
	2.Equipment						
	Excavator	0.075	Hrs	@	2500	187.50	
	Total					187.50	
	Contractor's profit & overheads				20%	37.50	
	Total					225.00	
	Total Composite rate					232.88	232.90
Cu.m.	b) Below 5 ft. to 10 ft. (1.5 m to 3.0 m) depth						
i)	In ashes, sand, soft soil or silt clearance.						
	Labourer	0.03	Hrs	@	87.50	2.89	
	Contractor's profit & overhead				20%	0.58	
	Total Labour rate					3.47	3.45
	2.Equipment						
	Excavator	0.033	Hrs	@	2500	82.50	
	Total					82.50	
	Contractor's profit & overheads				20%	16.50	
	Total					99.00	
	Total Composite rate					102.47	102.45
ii)	Ordinary soil						
	Labourer	0.05	Hrs	@	87.50	4.38	
	Contractor's profit & overhead				20%	0.88	
	Total Labour rate					5.25	5.25
	2.Equipment						
	Excavator	0.05	Hrs	@	2500	125.00	
	Total					125.00	
	Contractor's profit & overheads				20%	25.00	
	Total					150.00	
	Total Composite rate					155.25	155.25
iii)	Hard soil						
	Labourer	0.08	Hrs	@	87.50	6.56	
	Contractor's profit & overhead				20%	1.31	
	Total Labour rate					7.88	7.90
	2.Equipment						
	Excavator	0.075	Hrs	@	2500	187.50	
	Total					187.50	
	Contractor's profit & overheads				20%	37.50	
	Total					225.00	
	Total Composite rate					232.88	232.90
iv)	Shingle or gravel						
	Labourer	0.10	Hrs	@	87.50	8.75	
	Contractor's profit & overhead				20%	1.75	
	Total Labour rate					10.50	10.50
	2.Equipment						
	Excavator	0.1	Hrs	@	2500	250.00	
	Total					250.00	
	Contractor's profit & overheads				20%	50.00	
	Total					300.00	
	Total Composite rate					310.50	310.50
Cu.m.	c) Below 10 ft. to 15 ft. (3.0 m to 4.5 m) depth	**					
i)	In ashes, sand, soft soil or silt clearance.						
	Labourer	0.04	Hrs	@	87.50	3.50	
	Contractor's profit & overhead				20%	0.70	
	Total Labour rate					4.20	4.20
	2.Equipment						
	Excavator	0.04	Hrs	@	2500	100.00	
	Total					100.00	
	Contractor's profit & overheads				20%	20.00	
	Total					120.00	
	Total Composite rate					124.20	124.20

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
ii)	Ordinary soil			
	Labourer	0.06	Hrs @ 87.50	5.25
	Contractor's profit & overhead		20%	1.05
	Total Labour rate			6.30
				6.30
	2.Equipment			
	Excavator	0.06	Hrs @ 2500	150.00
	Total			150.00
	Contractor's profit & overheads		20%	30.00
	Total			180.00
	Total Composite rate			186.30
				186.30
iii)	Hard soil			
	Labourer	0.09	Hrs @ 87.50	7.88
	Contractor's profit & overhead		20%	1.58
	Total Labour rate			9.45
				9.45
	2.Equipment			
	Excavator	0.09	Hrs @ 2500	225.00
	Total			225.00
	Contractor's profit & overheads		20%	45.00
	Total			270.00
	Total Composite rate			279.45
				279.45
iv)	Shingle or gravel			
	Labourer	0.12	Hrs @ 87.50	10.50
	Contractor's profit & overhead		20%	2.10
	Total Labour rate			12.60
				12.60
	2.Equipment			
	Excavator	0.12	Hrs @ 2500	300.00
	Total			300.00
	Contractor's profit & overheads		20%	60.00
	Total			360.00
	Total Composite rate			372.60
				372.60
Cu.m.	d) Below 15 ft. to 20 ft. (4.5 m to 6.0 m) depth	**		
i)	In ashes, sand, soft soil or silt clearance.			
	Labourer	0.05	Hrs @ 87.50	4.38
	Contractor's profit & overhead		20%	0.88
	Total Labour rate			5.25
				5.25
	2.Equipment			
	Excavator	0.05	Hrs @ 2500	125.00
	Total			125.00
	Contractor's profit & overheads		20%	25.00
	Total			150.00
	Total Composite rate			155.25
				155.25
ii)	Ordinary soil			
	Labourer	0.08	Hrs @ 87.50	6.56
	Contractor's profit & overhead		20%	1.31
	Total Labour rate			7.88
				7.90
	2.Equipment			
	Excavator	0.075	Hrs @ 2500	187.50
	Total			187.50
	Contractor's profit & overheads		20%	37.50
	Total			225.00
	Total Composite rate			232.88
				232.90
iii)	Hard soil			
	Labourer	0.10	Hrs @ 87.50	8.75
	Contractor's profit & overhead		20%	1.75
	Total Labour rate			10.50
				10.50

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
	2.Equipment						
	Excavator	0.1	Hrs	@	2500	250.00	
	Total					250.00	
	Contractor's profit & overheads				20%	50.00	
	Total					300.00	
	Total Composite rate					310.50	310.50
iv)	Shingle or gravel						
	Labourer	0.12	Hrs	@	87.50	10.50	
	Contractor's profit & overhead				20%	2.10	
	Total Labour rate					12.60	12.60
	2.Equipment						
	Excavator	0.12	Hrs	@	2500	300.00	
	Total					300.00	
	Contractor's profit & overheads				20%	60.00	
	Total					360.00	
	Total Composite rate					372.60	372.60

Item No. 3 - 43

Providing and fixing close shuttering and timbering for excavation in open cutting for sewers and manholes as shown in drawings and removing of timbering after completion of job.

Sq.m. a) For depth upto 5 ft. (1.5 m).

Cost for 1000 Sq.ft. using 100% planks for 100 ft. length.

1. Labour

Carpenter shuttering	14.00	Hrs	@	125.00	1,750.00	
Labourer	28.00	Hrs	@	87.50	2,450.00	
					4,200.00 (A)	
Contractor's profit & overhead				20%	840.00	
Labour rate/1000 Sq. ft.					5,040.00	
Total Labour rate per Sq.M.					54.23	54.25

2. Material (Partial wood or similar)

Vertical planks	2 x 100 x 5 x 0.12	120.00				
Horizontal runners	2 x 2 x 100 x 0.33 x 0.25	33.00				
Struts 4ft. c/c	2 x 26 x 3.25 x 0.33 x 0.33	18.40				
		171.40				
Wastage (15%)		25.71				
		197.11				
Wood - Partial	197.11	Cu.ft.	@	1,200.00	236,537.66	
Sawing charges	197.11	Cu.ft.	@	87.50	17,247.54	
					253,785.20	
Wedges, stakes and nails etc.				1%	2,537.85	
					256,323.05	
Assuming 15 uses						
Cost for 1000 Sq.ft. per use					17,088.20	
Cost per Sq.m.					183.87	
Contractor's profit & overhead				20%	36.77	
Total Composite rate					274.87	274.85

Sq.m. b) For depth below 5 ft. to 10 ft. (1.5 m to 3.0 m.)

Cost for 1000 Sq.ft. using 100% planks for 100 ft. length.

1. Labour

Carpenter shuttering	16.00	Hrs	@	125.00	2,000.00	
Labourer	32.00	Hrs	@	87.50	2,800.00	
					4,800.00 (A)	
Contractor's profit & overhead				20%	960.00	
Labour rate/1000 Sq. ft.					5,760.00	
Total Labour rate					61.98	62.00

2. Material (Partial wood or similar)

Vertical planks	2 x 100 x 5 x 0.12	120.00			
Horizontal runners	2 x 2 x 100 x 0.38 x 0.25	38.00			
Struts 4ft. c/c	2 x 26 x 5 x 0.33 x 0.33	28.31			
		186.31			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Wastage (15%)	27.95		
		<u>214.26</u>		
	Wood - Partal	214.26	Cu.ft. @ 1,200.00	257,113.32
	Sawing charges	214.26	Cu.ft. @ 87.50	18,747.85
				<u>275,861.17</u>
	Wedges, stakes and nails etc.		1%	2,758.61
				<u>278,619.78</u>
	Assuming 15 uses			
	Cost for 1000 Sq.ft. per use			18,574.65
	Cost per Sq.m.			199.86
	Contractor's profit & overhead		20%	39.97
	Total			<u>239.84</u>
	Total Composite rate			301.81
				301.80

Sq.m. c) For depth below 10 ft. to 15 ft. (3.0 m to 4.5 m.)

Cost for 1000 Sq.ft. using 100% planks for 100 ft. length.

1. Labour

Carpenter shuttering	18.00	Hrs	@	125.00	2,250.00
Labourer	36.00	Hrs	@	87.50	3,150.00
					<u>5,400.00</u>
Contractor's profit & overhead				20%	1,080.00
Labour rate/1000 Sq. ft.					<u>6,480.00</u>
Total Labour rate					69.72

69.70

2. Material (Partial wood or similar)

Vertical planks	2 x 100 x 5 x 0.17	170.00			
Horizontal runners	2 x 2 x 100 x 0.5 x 0.25	50.00			
Struts 4ft. c/c	2 x 26 x 7 x 0.33 x 0.33	39.64			
Bracket	4 x 2 x 26 x 1.5 x 0.33 x 0.17	17.50			
		<u>277.14</u>			
Wastage (15%)		41.57			
		<u>318.71</u>			
Wood - Partal		318.71	Cu.ft. @ 1,200.00		382,457.06
Sawing charges		318.71	Cu.ft. @ 87.50		27,887.49
					<u>410,344.56</u>
Wedges, stakes and nails etc.			1%		4,103.45
					<u>414,448.00</u>
Assuming 15 uses					
Cost for 1000 Sq.ft. per use					27,629.87
Cost per Sq.m.					297.30
Contractor's profit & overhead			20%		59.46
Total					<u>356.76</u>
Total Composite rate					426.48

426.50**Sq.m. d) For depth below 15 ft. to 20 ft. (4.5 m to 6 m.)**

Cost for 1000 Sq.ft. using 100% planks for 100 ft. length.

1. Labour

Carpenter shuttering	20.00	Hrs	@	125.00	2,500.00
Labourer	40.00	Hrs	@	87.50	3,500.00
					<u>6,000.00</u>
Contractor's profit & overhead				20%	1,200.00
Labour rate/1000 Sq. ft.					<u>7,200.00</u>
Total Labour rate					77.47

77.45

2. Material (Partial wood or similar)

Vertical planks	2 x 100 x 5 x 0.17	170.00			
Horizontal runners	2 x 2 x 100 x 0.75 x 0.25	75.00			
Struts 4ft. c/c	2 x 26 x 9 x 0.33 x 0.33	50.97			
Bracket	4 x 2 x 26 x 1.5 x 0.33 x 0.17	17.50			
		<u>313.47</u>			
Wastage (15%)		47.02			
		<u>360.49</u>			
Wood - Partal		360.49	Cu.ft. @ 1,200.00		432,586.39
Sawing charges		360.49	Cu.ft. @ 87.50		31,542.76

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			464,129.15	
	Wedges, stakes and nails etc.	1%	4,641.29	
			468,770.44	
	Assuming 15 uses			
	Cost for 1000 Sq.ft. per use		31,251.36	
	Cost per Sq.m.		336.26	
	Contractor's profit & overhead	20%	67.25	
	Total		403.52	
	Total Composite rate		480.99	481.00

Item No. 3 - 44

Providing and fixing open shuttering and timbering for excavation in open cutting for sewers and manholes as shown in drawings and removing of timbering after completion of job.

Sq.m. a) For depth upto 5 ft. (1.5 m.).

Cost for 1000 Sq.ft. using 100%

1. Labour

Carpenter shuttering	14.00	Hrs	@	125.00	1,750.00
Labourer	28.00	Hrs	@	87.50	2,450.00
					4,200.00
Contractor's profit & overhead				20%	840.00

Labour rate/1000 Sq. ft.

Total Labour rate

5,040.00

54.23

54.25

2. Material (Partial wood or similar)

Vertical planks	2 x 100 x 5 x 0.12 x 0.5	60.00			
Horizontal runners	2 x 2 x 100 x 0.33 x 0.25	33.00			
Struts 4ft. c/c	2 x 26 x 3.25 x 0.33 x 0.33	18.40			
		111.40			
Wastage (15%)		16.71			
		128.11			
Wood - Partial		128.11	Cu.ft.	@	1,200.00
Sawing charges		128.11	Cu.ft.	@	87.50
					11,210.04
					164,947.70
Wedges, stakes and nails etc.				1%	1,649.48
					166,597.17

Assuming 15 uses

Cost for 1000 Sq.ft. per use

11,106.48

Cost per Sq.m.

Contractor's profit & overhead

20%

119.51

23.90

Total

143.41

Total Composite rate

197.64

197.65

Sq.m. b) For depth below 5 ft. to 10 ft. (1.5 m to 3.0 m.)

Cost for 1000 Sq.ft. using 100% planks for 100 ft. length.

1. Labour

Carpenter shuttering	16.00	Hrs	@	125.00	2,000.00
Labourer	32.00	Hrs	@	87.50	2,800.00
					4,800.00
Contractor's profit & overhead				20%	960.00
Labour rate/1000 Sq. ft.					5,760.00

Total Labour rate

61.98

62.00

2. Material (Partial wood or similar)

Vertical planks	2 x 100 x 5 x 0.12 x 0.5	60.00			
Horizontal runners	2 x 2 x 100 x 0.38 x 0.25	38.00			
Struts 4ft. c/c	2 x 26 x 5 x 0.33 x 0.33	28.31			
		126.31			
Wastage (15%)		18.95			
		145.26			
Wood - Partial		145.26	Cu.ft.	@	1,200.00
					174,313.32

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Sawing charges	145.26	Cu.ft. @ 87.50	12,710.35
				187,023.67
	Wedges, stakes and nails etc.		1%	1,870.24
				188,893.90
	Assuming 15 uses			
	Cost for 1000 Sq.ft. per use			12,592.93
	Cost per Sq.m.			135.50
	Contractor's profit & overhead		20%	27.10
	Total			162.60
	Total Composite rate			224.58
				224.60

Sq.m. c) For depth below 10 ft. to 15 ft. (3.0 m to 4.5 m.)

Cost for 1000 Sq.ft. using 100% planks for 100 ft. length.

1. Labour

Carpenter shuttering	18.00	Hrs	@	125.00	2,250.00
Labourer	36.00	Hrs	@	87.50	3,150.00
					5,400.00

Contractor's profit & overhead

Labour rate/1000 Sq. ft.				20%	1,080.00
Total Labour rate					6,480.00
					69.72

69.70

2. Material (Partial wood or similar)

Vertical planks	2 x 100 x 5 x 0.17 x 0.5	85.00
Horizontal runners	2 x 2 x 100 x 0.5 x 0.25	50.00
Struts 4ft. c/c	2 x 26 x 7 x 0.33 x 0.33	39.64
Bracket	4 x 2 x 26 x 1.5 x 0.33 x 0.17	17.50
		192.14

Wastage (15%)

		28.82
		220.96

Wood - Partial	220.96	Cu.ft.	@	1,200.00	265,157.06
Sawing charges	220.96	Cu.ft.	@	87.50	19,334.37

284,491.43

Wedges, stakes and nails etc.				1%	2,844.91
					287,336.35

Assuming 15 uses

Cost for 1000 Sq.ft. per use					19,155.76
Cost per Sq.m.					206.12

Contractor's profit & overhead

Total				20%	41.22
Total Composite rate					247.34
					317.06

317.05**Sq.m. d) For depth below 15 ft. to 20 ft. (4.5 m to 6 m.)**

Cost for 1000 Sq.ft. using 100% planks for 100 ft. length.

1. Labour

Carpenter shuttering	20.00	Hrs	@	125.00	2,500.00
Labourer	40.00	Hrs	@	87.50	3,500.00
					6,000.00

Contractor's profit & overhead

				20%	1,200.00
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Labour rate/1000 Sq. ft.					7,200.00
Total Labour rate					77.47

77.45

2. Material (Partial wood or similar)

Vertical planks	2 x 100 x 5 x 0.17 x 0.5	85.00
Horizontal runners	2 x 2 x 100 x 0.75 x 0.25	75.00
Struts 4ft. c/c	2 x 26 x 9 x 0.33 x 0.33	50.97
Bracket	4 x 2 x 26 x 1.5 x 0.33 x 0.17	17.50
		228.47

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Wastage (15%)	34.27		
		<u>262.74</u>		
	Wood - Partial	262.74	Cu.ft. @ 1,200.00	315,286.39
	Sawing charges	262.74	Cu.ft. @ 87.50	<u>22,989.63</u>
				338,276.02
	Wedges, stakes and nails etc.		1%	<u>3,382.76</u>
				341,658.78
	Assuming 15 uses			
	Cost for 1000 Sq.ft. per use			22,777.25
	Cost per Sq.m.			245.08
	Contractor's profit & overhead		20%	<u>49.02</u>
	Total			294.10
	Total Composite rate			371.57
				371.55

Item No. 3 - 45

Excavation in open cutting for sewer and manholes as shown in drawings below sub-soil water level to correct section and dimension according to templates and levels including shoring, timbering and shuttering of M.S. sheets on both sides of the trenches.

Fabrications of M.S. Sheet Shuttering

M.S. sheet 4 mm thick is assumed to fabricate the box to be used as shuttering
Shuttering size = 5 x 5 x 4 = 100 Sft.

1. Labour

Black smith	4.00	Hrs	@	112.00	448.00
Welder	8.00	Hrs	@	125.00	1,000.00
Labourer	8.00	Hrs	@	87.50	<u>700.00</u>
Total Labour					2,148.00 (A)

2. Material

Sheet	2 x 2 x 5 x 4	80.00	Sq.ft.		
Weight	80 x 2.92	233.60	kg.		
Wastage	5%	<u>11.68</u>	kg.		
		245.28	kg.		
M.S. sheet for formwork		245.28	Kg.	@ 70.00	17,169.60 (B)
Electrodes				0.6%	<u>103.02</u>
					17,272.62 (C)

3. Machinery

Welding plant	8.00	Hrs	@	125.00	1,000.00
Add for sundries				5%	<u>50.00</u>
					1,050.00 (D)
Total (A + C + D)					20,470.62
Less residual value 20% of M.S. sheet (0.20 x B)				(-)	<u>3,433.92</u>
					17,036.70

Assume 50 uses

Rate per use	17,037	/ 50			340.73
Rate per Cu.ft.					3.41 (E)
Cost per Cu.m.		= E x 35.31			120.31

Cu.m. a) Upto 4 ft. (1.25 m) depth below S.S.W.L.

Labourer	3.00	Hrs	@	87.50	262.50
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Extra for lowering, hammering and taking out shuttering

Labourer	0.30	Hrs	@	87.50	<u>26.25</u>
					288.75

Contractor's profit & overhead

				20%	<u>57.75</u>
Total Labour rate					346.50

346.50

Cost of Shuttering

					120.31
Contractor's profit & overhead				20%	<u>24.06</u>
Total					144.38

Total Composite rate					490.88
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490.90**Cu.m. b) Below 4 ft. to 8 ft. (1.25 m to 2.50 m) depth below S.S.W.L.**

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Labourer	4.50	Hrs	@ 87.50	393.75	
	Extra for lowering, hammering and taking out shuttering					
	Labourer	0.45	Hrs	@ 87.50	39.38	
					433.13	
	Contractor's profit & overhead			20%	86.63	
	Total Labour rate				519.75	519.75
	Cost of Shuttering				120.31	
	Contractor's profit & overhead			20%	24.06	
	Total				144.38	
	Total Composite rate				664.13	664.15
Cu.m. c)	Exceeding below 8 ft. (2.5 m.) depth below S.S.W.L.					
	Labourer	6.00	Hrs	@ 87.50	525.00	
	Extra for lowering, hammering and taking out shuttering					
	Labourer	0.60	Hrs	@ 87.50	52.50	
					577.50	
	Contractor's profit & overhead			20%	115.50	
	Total Labour rate				693.00	693.00
	Cost of Shuttering				120.31	
	Contractor's profit & overhead			20%	24.06	
	Total				144.38	
	Total Composite rate				837.38	837.40

* The rate does not include backfilling after laying of sewer, which is payable separately.

Item No. 3 - 46

Levelling and dressing the ground by cutting and filling of earth in depth upto 6 inches including consolidating.

a)	Rough Levelling in Ordinary Soil					
Sq.m. i)	Plain Area					
	1. Labour					
	Labourer	0.003	Hrs	@ 87.5	0.26	
	Contractor's profit & overhead			20%	0.05	
	Total Labour Rate				0.32	0.30
	2. Equipment					
	Bulldozer C-14	0.003	Hrs	@ 3,597.00	10.79	
	Contractor's profit & overhead			20%	2.16	
	Total Composite rate				12.95	12.95
Sq.m. ii)	Sloppy Area					
	1. Labour					
	Labourer	0.006	Hrs	@ 87.5	0.53	
	Contractor's profit & overhead			20%	0.11	
	Total Labour Rate				0.63	0.65
	2. Equipment					
	Bulldozer C-14	0.006	Hrs	@ 3,597.00	21.58	
	Contractor's profit & overhead			20%	4.32	
	Total Composite rate				25.90	25.90

b) Rough Levelling Hard Soil

Sq.m. i) Plain Area

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
	Labourer	0.005	Hrs @	87.5	0.44
	Contractor's profit & overhead			20%	0.09
	Total Labour Rate				0.53
					0.55
2. Equipment					
	Bulldozer C-14	0.005	Hrs @	3,597.00	16.19
	Contractor's profit & overhead			20%	3.24
	Total Composite rate				19.42
					19.40
Sq.m. ii) Sloppy Area					
1. Labour					
	Labourer	0.01	Hrs @	87.5	0.88
	Contractor's profit & overhead			20%	0.18
	Total Labour Rate				1.05
					1.05
2. Equipment					
	Bulldozer C-14	0.01	Hrs @	3,597.00	35.97
	Contractor's profit & overhead			20%	7.19
	Total Composite rate				43.16
					43.15
c) Rough Levelling Sandy Soil					
Sq.m. i) Plain Area					
1. Labour					
	Labourer	0.002	Hrs @	87.5	0.18
	Contractor's profit & overhead			20%	0.04
	Total Labour Rate				0.21
					0.20
2. Equipment					
	Bulldozer C-14	0.002	Hrs @	3,597.00	7.19
	Contractor's profit & overhead			20%	1.44
	Total Composite rate				8.63
					8.65
Sq.m. ii) Sloppy Area					
1. Labour					
	Labourer	0.004	Hrs @	87.5	0.35
	Contractor's profit & overhead			20%	0.07
	Total Labour Rate				0.42
					0.40
2. Equipment					
	Bulldozer C-14	0.004	Hrs @	3,597.00	14.39
	Contractor's profit & overhead			20%	2.88
	Total Composite rate				17.27
					17.25
d) Extra for Lazer Levelling					
Sq.m. i) Normal Soil					
1. Labour					
	Technician	0.0024	Hrs	150.00	0.36
	Labourer	0.0024	Hrs @	87.5	0.21
	Contractor's profit & overhead			20%	0.11
	Total Labour Rate				0.32
					0.30
2. Equipment					

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Laser Levelling Machine	0.0024	Hrs	@ 3,597.00	8.63	
	Contractor's profit & overhead			20%	1.73	
	Total Composite rate				10.36	10.35
Sq.m.	ii) Hard Soil					
	1. Labour					
	Technician	0.0032	Hrs	150.00	0.48	
	Labourer	0.0032	Hrs	@ 87.5	0.28	
	Contractor's profit & overhead			20%	0.15	
	Total Labour Rate				0.43	0.45
	2. Equipment					
	Laser Levelling Machine	0.0032	Hrs	@ 3,597.00	11.51	
	Contractor's profit & overhead			20%	2.30	
	Total Composite rate				13.81	13.80
Sq.m.	iii) Sandy Soil					
	1. Labour					
	Technician	0.002	Hrs	150.00	0.30	
	Labourer	0.002	Hrs	@ 87.5	0.18	
	Contractor's profit & overhead			20%	0.10	
	Total Labour Rate				0.27	0.25
	2. Equipment					
	Laser Levelling Machine	0.0020	Hrs	@ 3,597.00	7.19	
	Contractor's profit & overhead			20%	1.44	
	Total Composite rate				8.63	8.65
	Item No. 3 - 47					
	Cutting and removing trees within a distance of 100 ft. (30m)					
Each	a) Upto 2.5 ft. (0.75 m.) girth					
	Labourer	9.20	Hrs	@ 87.50	805.00	
	Contractor's profit & overhead			20%	161.00	
	Total Labour rate				966.00	966.00
Each	b) Above 2.5 ft. to 6 ft. (0.75 m to 1.8 m.) girth					
	Labourer	18.00	Hrs	@ 87.50	1,575.00	
	Contractor's profit & overhead			20%	315.00	
	Total Labour rate				1,890.00	1890.00
Each	Item No. 3 - 48 - 1					
	Up-rooting & removing stumps upto 100 ft.(30m) from 1.5 ft.					
	Labourer	12.00	Hrs	@ 87.50	1,050.00	
	Contractor's profit & overhead			20%	210.00	
	Total Labour rate				1,260.00	1260.00
	Item No. 3 - 49 - 1					
	Jungle clearance and removing upto 100 ft. (30m.)					
Sq.m.	a) Light					
100	Labourer	1.72	Hrs	@ 87.50	150.50	
	Contractor's profit & overhead			20%	30.10	
	Total Labour rate				180.60	180.60
Sq.m.	b) Thick					
100	Labourer	3.44	Hrs	@ 87.50	301.00	
	Contractor's profit & overhead			20%	60.20	
	Total Labour rate				361.20	361.20

Unit	Description			Component Cost	Unit Rate
				(Rs)	(Rs)
Sq.m.	Item No. 3 - 50 - 1 Uprooting sarkanda growth & disposal upto 100 ft. (30 m.)				
	Labourer	0.08	Hrs @	87.50	7.00
	Contractor's profit & overhead			20%	1.40
	Total Labour rate				8.40
					8.40
Hectare	Item No. 3 - 51 - 1 Ploughing three (3) times.				
	Tractor with operator	7.41	Hrs @	537.00	3,979.17
	Diesel	44.46	Ltrs @	95.60	4,250.38
	Contractor's profit & overhead			20%	8,229.55
	Total Labour rate				1,645.91
					9,875.46
					9875.45
Sq.m.	Item No. 3 - 52 - 1 Levelling, dressing & making lawns.				
	Labourer	0.34	Hrs @	87.50	29.75
	Contractor's profit & overhead			20%	5.95
	Total Labour rate				35.70
					35.70
Sq.m.	Item No. 3 - 53 - 1 Turfing lawns (excluding cost of turf).				
	Labourer	0.29	Hrs @	87.50	25.38
	Contractor's profit & overhead			20%	5.08
	Total Labour rate				30.45
					30.45
Sq.m.	Item No. 3 - 54 - 1 Clearing jungle by cutting, removing all shrubs, trees and				
	1. Labour				
	Wood cutter	0.25	Hrs @	87.50	21.88
	Labourer	0.10	Hrs @	87.50	8.75
	Bahishti	0.05	Hrs @	87.50	4.38
	Contractor's profit & overhead			20%	35.00
	Total Labour rate				7.00
	Total Labour rate per sq.m.				42.00
					42.00
Sq.m.	Item No. 3 - 55 - 1 Manual Levelling and dressing the ground by cutting and filling earth upto 6 inches (150mm) in depth including consolidating and watering. To be used for area less than 100 sq.m, for areas more than 100 sq.m item No. 3-46 to be utilized.				
	Labourer	1.00	Hrs @	87.50	87.50
	Bahishti	0.50	Hrs @	87.50	43.75
	Contractor's profit & overhead			20%	131.25
	Total Labour rate				26.25
	Total Labour rate per sq.m.				157.50
					15.75
					15.75

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	
Cu.m.	Item No. 3-56 Excavation of shaft of Karez of internal size of 1m x 1.75m in including loading and disposal of excavated material within 30m (100 Ft) lead in ordinary soil/sand.				
	Item No. 3-56A Up to 6m (20Ft) below ground level in dry condition				
	Skilled labour	36.00	Hrs. @ 90.00	3,240.00	
	Cooly	98.00	Hrs. @ 87.50	8,575.00	
				<u>11,815.00</u>	
	Water charges		5%	<u>590.75</u>	
				12,405.75	
	Contractor's profit & overheads		20%	<u>2,481.15</u>	
		Total :		<u>14,886.90</u>	
		14,886.90 /6		2481.15	2481.20
Cu.m.	Item No. 3-56B 6m to 12m below ground level in dry condition				
	Skilled labour	56.00	Hrs. @ 90.00	5,040.00	
	Cooly	126.00	Hrs. @ 87.50	11,025.00	
				<u>16,065.00</u>	
	Water charges		5%	<u>803.25</u>	
				16,868.25	
	Contractor's profit & overheads		20%	<u>3,373.65</u>	
		Total :		<u>20,241.90</u>	
		20,241.90 /6		3373.65	3373.70
	Cu.m.	Item No. 3-56C 12m to 50m below ground level in dry condition Add 20% on Item No. 3-56B	3,373.65	@ 20%	674.73
				<u>3,373.70</u>	
				4,048.43	4048.40
Cu.m.	Item No. 3-56D 50m to 75m below ground level in dry condition Add 15% on Item No. 3-56C	4,048.40	@ 15%	607.26	
				<u>4,048.40</u>	
				4,655.66	4655.70
Cu.m.	Item No. 3-56E 75m to 100m below ground level in dry condition Add 10% on Item No. 3-56D	4,655.70	@ 10%	465.57	
				<u>4,655.70</u>	
				5,121.27	5121.30
Cu.m.	Item No. 3-56F Above 100m below ground level to any depth in dry Add 5% on Item No. 3-56E	5,121.30	@ 5%	256.07	
				<u>5,121.30</u>	
				5,377.37	5377.40

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Item No. 3-56G Additional for wet conditions for items 3-56(A-F)			
	Add %age on respective items			15%
	Item No. 3-56H Additional for below spring level/in flowing conditions for items 3-56(A-F)			
	Add %age on respective items			25%
	Item No. 3-57 Excavation of tunnel of Karez of internal size 1m x 1.75m			
	Item No. 3-57A Up to 6m (20Ft) below ground level in any length and in dry condition			
	Skilled labour	70.00	Hrs. @ 90.00	6,300.00
	Cooly	126.00	Hrs. @ 87.50	<u>11,025.00</u>
				17,325.00
	Water charges		5%	<u>866.25</u>
				18,191.25
			20%	
	Contractor's profit & overheads			<u>3,638.25</u>
	Total :			21,829.50
	21,829.50 /6			3638.25
				3638.30
	Item No. 3-57B 6m to 12m below ground level in any length and in dry condition			
	Skilled labour	98.00	Hrs. @ 90.00	8,820.00
	Cooly	182.00	Hrs. @ 87.50	<u>15,925.00</u>
				24,745.00
	Water charges		5%	<u>1,237.25</u>
				25,982.25
	Contractor's profit & overheads		20%	<u>5,196.45</u>
	Total :			31,178.70
	31,178.70 /6			5196.45
				5196.50
	Item No. 3-57C 12m to 50m below ground level in any length and in dry condition			
	Add 20% on Item No. 3-57B	5,196.50	@ 20%	1,039.30
				<u>5,196.50</u>
				6,235.80
				6235.80
	Item No. 3-57D 50m to 75m below ground level in any length and in dry condition			
	Add 15% on Item No. 3-57C	6,235.80	@ 15%	935.37
				<u>6,235.80</u>
				7,171.17
				7171.20
	Item No. 3-57E 75m to 100m below ground level in any length and in dry condition			
	Add 10% on Item No. 3-57D	7,171.20	@ 10%	717.12
				<u>7,171.20</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			7,888.32	7888.30
	Item No. 3-57F Above 100m below ground level in any length and to any depth in dry condition			
	Add 5% on Item No. 3-57E	7,888.30	@ 5%	394.42
				<u>7,888.30</u>
				8,282.72
				8282.70
	Item No. 3-57G Additional for wet conditions for items 3-57(A-F)			
	Add %age on respective items			15%
	Item No. 3-57H Additional for below spring level/in flowing conditions for			
	Add %age on respective items			25%
	Item No. 3-57(I) Cleaning of Karez silt/debris of any length in the range of depths as mentioned in items 3-57(A-F)			
	20% of the rate of the depth range			25%
	Item No. 3-58 Excavation of shaft of Karez of internal size of 1m x 1.75m in including loading and disposal of excavated material within 30m (100 Ft) lead in hard soil			
	Item No. 3-58A Up to 6m (20Ft) below ground level in dry condition			
	Skilled labour	56.00	Hrs. @	90.00
				5,040.00
	Cooly	112.00	Hrs. @	87.50
				<u>9,800.00</u>
				14,840.00
	Water charges		5%	<u>742.00</u>
				15,582.00
	Contractor's profit & overheads		20%	<u>3,116.40</u>
				18,698.40
		Total :		18,698.40
		18,698.40 /6		3116.40
				3116.40
	Item No. 3-58B 6m to 12m below ground level in dry condition			
	Skilled labour	84.00	Hrs. @	90.00
				7,560.00
	Cooly	168.00	Hrs. @	87.50
				<u>14,700.00</u>
				22,260.00
	Water charges		5%	<u>1,113.00</u>
				23,373.00
	Contractor's profit & overheads		20%	<u>4,674.60</u>
				28,047.60
		Total :		28,047.60
		28,047.60 /6		4674.60
				4674.60
	Item No. 3-58C 12m to 50m below ground level in dry condition			
	Add 20% on Item No. 3-58B	4,674.60	@ 20%	934.92
				<u>4,674.60</u>
				5,609.52
				5609.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 3-58D				
50m to 75m below ground level in dry condition				
	Add 15% on Item No. 3-58C	5,609.50	@ 15%	841.43
				<u>5,609.50</u>
				6,450.93
				6450.90
Item No. 3-58E				
75m to 100m below ground level in dry condition				
	Add 10% on Item No. 3-58D	6,450.90	@ 10%	645.09
				<u>6,450.90</u>
				7,095.99
				7096.00
Item No. 3-58F				
Above 100m below ground level to any depth in dry condition				
	Add 5% on Item No. 3-58E	7,096.00	@ 5%	354.80
				<u>7,096.00</u>
				7,450.80
				7450.80
Item No. 3-58G				
Additional for wet conditions for items 3-58(A-F)				
	Add %age on respective items			15%
Item No. 3-58H				
Additional for below spring level/in flowing conditions for items 3-58(A-F)				
	Add %age on respective items			25%
Item No. 3-59				
Excavation of tunnel of Karez of internal size 1m x 1.75m including loading and disposal of excavated material within 30m in hard soil				
Item No. 3-59A				
Up to 6m (20Ft) below ground level in any length and in dry condition				
	Skilled labour	84.00	Hrs. @	90.00 7,560.00
	Cooly	168.00	Hrs. @	87.50 <u>14,700.00</u>
				22,260.00
	Water charges		5%	<u>1,113.00</u>
				23,373.00
	Contractor's profit & overheads		20%	<u>4,674.60</u>
				28,047.60
			Total :	28,047.60
	28,047.60 /6			4674.60
				4674.60
Item No. 3-59B				
6m to 12m below ground level in any length and in dry condition				
	Skilled labour	80.00	Hrs. @	90.00 7,200.00
	Cooly	128.00	Hrs. @	87.50 <u>11,200.00</u>
				18,400.00
	Water charges		5%	<u>920.00</u>
				19,320.00
	Contractor's profit & overheads		20%	<u>3,864.00</u>
				23,184.00
			Total :	23,184.00
	23,184.00 /6			3864.00
				3864.00
Item No. 3-59C				
12m to 50m below ground level in any length and in dry condition				
	Add 20% on Item No. 3-59B	3,864.00	@ 20%	772.80
				<u>3,864.00</u>
				4,636.80
				4636.80
Item No. 3-59D				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	50m to 75m below ground level in any length and in dry condition			
	Add 15% on Item No. 3-59C	4,636.80	@ 15%	695.52
				<u>4,636.80</u>
				5,332.32
				5332.30
	Item No. 3-59E			
	75m to 100m below ground level in any length and in dry condition			
	Add 10% on Item No. 3-59D	5,332.30	@ 10%	533.23
				533.23
				533.20
	Item No. 3-59F			
	Above 100m below ground level in any length and to any depth in dry condition			
	Add 5% on Item No. 3-59E	3,150.00	@ 5%	157.50
				<u>3,150.00</u>
				3,307.50
				3307.50
	Item No. 3-59G			
	Additional for wet conditions for items 3-59(A-F)			
	Add %age on respective items			15%
	Item No. 3-59H			
	Additional for below spring level/in flowing conditions for items 3-59A-F			
	Add %age on respective items			25%
	Item No. 3-59I			
	Additional for Cleaning of Karez silt/debris of any length in the range of depths as mentioned in items 3-59A-F			
				20%
	<i>20% of the rate of the depth range</i>			
	Item No. 3-60			
	Excavation of shaft of Karez of internal size of 1m x 1.75 m in including loading and disposal of excavated material within 30m (100 Ft) lead in in hard strata including shingle, gravel or equivalent			
	Item No. 3-60A			
	Up to 6m (20Ft) below ground level in dry condition			
	Skilled labour	91.00	Hrs. @	90.00 8,190.00
	Cooly	168.00	Hrs. @	87.50 14,700.00
				<u>22,890.00</u>
	Water charges		5%	<u>1,144.50</u>
				24,034.50
	Contractor's profit & overheads		20%	<u>4,806.90</u>
				28,841.40
			Total :	28,841.40
		28,841.40 /6		4806.90
				4806.90
	Item No. 3-60B			
	6m to 12m below ground level in dry condition			
	Skilled labour	168.00	Hrs. @	90.00 15,120.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Cooly	273.00 Hrs. @	87.50	23,887.50	
			39,007.50	
Water charges		5%	1,950.38	
			40,957.88	
Contractor's profit & overheads		20%	8,191.58	
	Total :		49,149.45	
	49,149.45 /6		8191.58	8191.60
Item No. 3-60C				
12m to 50m below ground level in dry condition				
Add 20% on Item No. 3-60B	8,191.60 @	20%	1,638.32	
			8,191.60	
			9,829.92	9829.90
Item No. 3-60D				
50m to 75m below ground level in dry condition				
Add 15% on Item No. 3-60C	2,500.00 @	15%	375.00	
			2,500.00	
			2,875.00	2875.00
Item No. 3-60E				
75m to 100m below ground level in dry condition				
Add 10% on Item No. 3-60D	2,875.00 @	10%	287.50	
			2,875.00	
			3,162.50	3162.50
Item No. 3-60F				
Above 100m below ground level to any depth in dry condition				
Add 5% on Item No. 3-60E	3,162.50 @	5%	158.13	
			3,162.50	
			3,320.63	3320.60
Item No. 3-60G				
Additional for wet conditions for items 3-60 from (A-F)				
Add %age on respective items				15%
Item No. 3-60H				
Additional for below spring level/in flowing conditions for items 3-60 from (A-F)				
Add %age on respective items				25%
Item No. 3-61				
Excavation of tunnel of Karez of internal size 1m x 1.75m including loading and disposal of excavated material within 30m in hard strata i/c shingle, gravel or equivalent				
Item No. 3-61A				
Up to 6m (20Ft) below ground level in any length and in dry condition				
Skilled labour	112.00 Hrs. @	90.00	10,080.00	
Cooly	217.00 Hrs. @	87.50	18,987.50	
			29,067.50	
Water charges		5%	1,453.38	
			30,520.88	
Contractor's profit & overheads		20%	6,104.18	
	Total :		36,625.05	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	36,625.05 /6		6104.18	6104.20
Item No. 3-61B				
6m to 12m below ground level in any length and in dry condition				
Skilled labour	196.00 Hrs.	@	90.00	17,640.00
Cooly	273.00 Hrs.	@	87.50	23,887.50
				41,527.50
Water charges			5%	2,076.38
				43,603.88
Contractor's profit & overheads			20%	8,720.78
				52,324.65
	Total :			8720.78
	52,324.65 /6		8720.78	8720.80
Item No. 3-61C				
12m to 50m below ground level in any length and in dry condition				
Add 20% on Item No. 3-61B	8,720.80	@	20%	1,744.16
				8,720.80
				10,464.96
				10465.00
Item No. 3-61D				
50m to 75m below ground level in any length and in dry condition				
Add 15% on Item No. 3-61C	10,465.00	@	15%	1,569.75
				10,465.00
				12,034.75
				12034.80
Item No. 3-61E				
75m to 100m below ground level in any length and in dry condition				
Add 10% on Item No. 3-61D	12,034.80	@	10%	1,203.48
				12,034.80
				13,238.28
				13238.30
Item No. 3-61F				
Above 100m below ground level in any length and to any depth in dry condition				
Add 5% on Item No. 3-61E	1,154.00	@	5%	57.70
				1,154.00
				1,211.70
				1211.70
Item No. 3-61G				
Additional for wet conditions for items 3-61(A-F)				
Add %age on respective items				15%
Item No. 3-61H				
Additional for below spring level/in flowing conditions for items 3-61(A-F)				
Add 25%age on respective items				25%
Item No. 3-61I				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Additional for Cleaning of Karez silt/debris of any length in the range of depths as mentioned in items 3-61 from (A-F)			
	20% of the rate of the depth range			20%
	Item No. 3-62 Excavation of shaft of Karez of internal size of 1m x 1.75m in including loading and disposal of excavated material within 30m (100 Ft) lead in soft to medium rock or shale/lime stone			
	Item No. 3-62A Up to 6m (20Ft) below ground level in dry condition			
	Skilled labour	196.00	Hrs. @ 90.00	17,640.00
	Cooly	378.00	Hrs. @ 87.50	33,075.00
				50,715.00
	Water charges		5%	2,535.75
				53,250.75
	Contractor's profit & overheads		20%	10,650.15
	Total :			63,900.90
	63,900.90 /6			10650.15
				10650.20
	Item No. 3-62B 6m to 12m below ground level in dry condition			
	Skilled labour	273.00	Hrs. @ 90.00	24,570.00
	Cooly	462.00	Hrs. @ 87.50	40,425.00
				64,995.00
	Water charges		5%	3,249.75
				68,244.75
	Contractor's profit & overheads		20%	13,648.95
	Total :			81,893.70
	81,893.70 /6			13648.95
				13649.00
	Item No. 3-62C 12m to 50m below ground level in dry condition			
	Add 20% on Item No. 3-62B	13,649.00	@ 20%	2,729.80
				13,649.00
				16,378.80
				16378.80
	Item No. 3-62D 50m to 75m below ground level in dry condition			
	Add 15% on Item No. 3-62C	16,378.80	@ 15%	2,456.82
				16,378.80
				18,835.62
				18835.60
	Item No. 3-62E 75m to 100m below ground level in dry condition			
	Add 10% on Item No. 3-62D	18,835.60	@ 10%	1,883.56
				18,835.60
				20,719.16
				20719.20

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Item No. 3-62F Above 100m below ground level to any depth in dry			
	Add 5% on Item No. 3-62E	20,719.20	@ 5%	1,035.96
				<u>20,719.20</u>
				21,755.16
				21755.20
	Item No. 3-62G Additional for wet conditions for items 3-62(A-F)			
	Add %age on respective items			15%
	Item No. 3-62H Additional for below spring level/in flowing conditions for			
	Add %age on respective items			25%
	Item No. 3-63 Excavation of tunnel of Karez of internal size 1m x 1.75 m including loading and disposal of excavated material within 30m in in soft to medium rock or shale/lime stone			
	Item No. 3-63A Up to 6m (20Ft) below ground level in any length and in dry			
	Skilled labour	217.00	Hrs. @ 90.00	19,530.00
	Cooly	371.00	Hrs. @ 87.50	<u>32,462.50</u>
				51,992.50
	Water charges		5%	<u>2,599.63</u>
				54,592.13
	Contractor's profit & overheads		20%	<u>10,918.43</u>
	Total :			65,510.55
	65,510.55 /6			10918.43
				10918.40
	Item No. 3-63B 6m to 12m below ground level in any length and in dry condition			
	Skilled labour	224.00	Hrs. @ 90.00	20,160.00
	Cooly	412.00	Hrs. @ 87.50	<u>36,050.00</u>
				56,210.00
	Water charges		5%	<u>2,810.50</u>
				59,020.50
	Contractor's profit & overheads		20%	<u>11,804.10</u>
	Total :			70,824.60
	70,824.60 /6			11804.10
				11804.10
	Item No. 3-63C 12m to 50m below ground level in any length and in dry condition			
	Add 20% on Item No. 3-63B	11,804.10	@ 20%	2,360.82
				<u>11,804.10</u>
				14,164.92
				14164.90
	Item No. 3-63D 50m to 75m below ground level in any length and in dry condition			
	Add 15% on Item No. 3-63C	14,164.90	@ 20%	2,832.98
				<u>14,164.90</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			16,997.88	16997.90
	Item No. 3-63E 75m to 100m below ground level in any length and in dry condition			
	Add 10% on Item No. 3-63D	16,997.90	@ 20%	3,399.58
				<u>16,997.90</u>
				<u>20,397.48</u>
				20397.50
	Item No. 3-63F Above 100m below ground level in any length and to any depth in dry condition			
	Add 5% on Item No. 3-63E	20,397.50	@ 20%	4,079.50
				<u>20,397.50</u>
				<u>24,477.00</u>
				24477.00
	Item No. 3-63G Additional for wet conditions for items 3-63(A-F)			
	Add %age on respective items			15%
	Item No. 3-63H Additional for below spring level/in flowing conditions for items 3-63(A-F)			
	Add %age on respective items			25%
	Item No. 3-63I Additional for Cleaning of Karez silt/debris of any length in the range of depths as mentioned in items 3-63 from (A-F)			
	20% of the rate of the depth range			20%
	Item No. 3-64 Excavation of shaft of Karez of internal size of 1m x 1.75m in including loading and disposal of excavated material within 30m (100 Ft) lead in hard rock			
	Item No. 3-64A Up to 6m (20Ft) below ground level in dry condition			
	Skilled labour	462.00	Hrs. @	90.00 41,580.00
	Cooly	798.00	Hrs. @	87.50 <u>69,825.00</u>
				111,405.00
	Water charges			5% <u>5,570.25</u>
	Contractor's profit & overheads			116,975.25
			20%	<u>23,395.05</u>
			Total :	<u>140,370.30</u>
		140,370.30 /6		23395.05
				23395.10
	Item No. 3-64B 6m to 12m below ground level in dry condition			
	Skilled labour	623.00	Hrs. @	90.00 56,070.00
	Cooly	896.00	Hrs. @	87.50 <u>78,400.00</u>
				134,470.00
	Water charges			5% <u>6,723.50</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			141,193.50	
		20%		
	Contractor's profit & overheads		28,238.70	
	Total :		169,432.20	
	169,432.20 /6		28238.70	28238.70
Item No. 3-64C				
12m to 50m below ground level in dry condition				
	Add 20% on Item No. 3-64B	28,238.70	@ 20% 5,647.74	
			28,238.70	
			33,886.44	33886.40
Item No. 3-64D				
50m to 75m below ground level in dry condition				
	Add 15% on Item No. 3-64C	33,886.40	@ 20% 6,777.28	
			33,886.40	
			40,663.68	40663.70
Item No. 3-64E				
75m to 100m below ground level in dry condition				
Add 10% on Item No. 3-64D				
		40,663.70	@ 20% 8,132.74	
			40,663.70	
			48,796.44	48796.40
Item No. 3-64F				
Above 100m below ground level to any depth in dry				
Add 5% on Item No. 3-64E				
		48,796.40	@ 20% 9,759.28	
			48,796.40	
			58,555.68	58555.70
Item No. 3-64G				
Additional for wet conditions for items 3-64(A-F)				
	Add %age on respective items			15%
Item No. 3-64H				
Additional for below spring level/in flowing conditions for				
	Add %age on respective items			25%
Item No. 3-65				
Excavation of tunnel of Karez of internal size 1m x 1.75m				
Item No. 3-65A				
Up to 6m (20Ft) below ground level in any length and in dry				
	Skilled labour	336.00	Hrs. @ 90.00	30,240.00
	Cooly	546.00	Hrs. @ 87.50	47,775.00
				78,015.00
	Water charges		5%	3,900.75
				81,915.75
	Contractor's profit & overheads		20%	16,383.15
	Total :			98,298.90
	98,298.90 /6			16383.15
				16383.20

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 3-65B				
6m to 12m below ground level in any length and in dry				
	Skilled labour	798.00	Hrs. @ 90.00	71,820.00
	Cooly	1,176.00	Hrs. @ 87.50	102,900.00
				174,720.00
	Water charges		5%	8,736.00
				183,456.00
	Contractor's profit & overheads		20%	36,691.20
	Total :			220,147.20
	220,147.20 /6			36691.20
				36691.20
Item No. 3-65C				
12m to 50m below ground level in any length and in dry				
	Add 20% on Item No. 3-65B	36,691.20	@ 20%	7,338.24
				36,691.20
				44,029.44
				44029.40
Item No. 3-65D				
50m to 75m below ground level in any length and in dry				
	Add 15% on Item No. 3-65C	44,029.40	@ 20%	8,805.88
				44,029.40
				52,835.28
				52835.30
Item No. 3-65E				
75m to 100m below ground level in any length and in dry				
	Add 10% on Item No. 3-65D	52,835.30	@ 20%	10,567.06
				52,835.30
				63,402.36
				63402.40
Item No. 3-65F				
Above 100m below ground level in any length and to any depth in dry condition				
	Add 5% on Item No. 3-65E	63,402.40	@ 20%	12,680.48
				63,402.40
				76,082.88
				76082.90
Item No. 3-65G				
Additional for wet conditions for items 3-65 from (A-F)				
	Add %age on respective items			15%
Item No. 3-65H				
Additional for below spring level/in flowing conditions for				
	Add %age on respective items			25%
Item No. 3-65I				
Additional for Cleaning of Karez silt/debris of any length in				
	20% of the rate of the depth range of the relevant Item			20%
For Small Dams and flood protection bunds/embankments				
	(average performance of machinery and remote locations have been assumed)			

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Cu.m.	Item No. 3 - 66 Cutting to a required gradient in all kinds of soil and disposing the same, levelling, dressing, watering and consolidation lead upto 100ft. (30m).				
	Labourer	3.50	Hrs @ 87.50	306.25	
	Bahishti	0.05	Hrs @ 87.50	4.38	
	Contractor's profit & overhead		20%	310.63	
	Total Labour rate			62.13	
				<u>372.75</u>	372.75
Cu.m.	Item No. 3 - 67 Cutting to a required gradient in all kinds of soil and disposing the same, levelling, dressing but without watering and consolidation lead upto 100 ft. (30m)				
	Rate same as item 3 - 66			372.75	
	Less rate of item 3 - 24(c) for watering and consolidation			36.24	
				<u>336.51</u>	336.50
Sq.m	Item No. 3 - 68 Providing turf only				
	Turf	1.00	Sq.m @ 175.00	175.00	
	Contractor's profit & overhead		20%	35.00	
	Total Composite rate			<u>210.00</u>	210.00
Sq.m.	Item No. 3- 69 Spraying approved anti-termite chemical mixed with water in the ratio of 1:40				
	Detail of cost for 200 Sq.ft.				
	1. Labour				
	Spray man	1.00	Hrs @ 125.00	125.00	
	Contractor's profit & overhead		20%	25.00	
	Total Labour rate			<u>8.07</u>	8.05
	2. Material				
	Anti Termite Spray	1.00	Liter @ 1500.00	1,500.00	
	Contractor's profit & overhead		20%	300.00	
	Total Labour rate			<u>104.91</u>	104.90
Cu.m	Item No. 3 -70				
	a) Excavation of trenches for water supply pipe lines upto 5 ft. (1.5m) depth from ground level, including trimming, dressing sides, levelling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects including cost of back filling.				
	i) Ordinary soil				
	Detail of cost for 1 Cu.m				
	1. Labour				
	Cooly for dressing Earth	0.45	Hrs @ 87.50	39.38	
	Dewatering the rain	0.11	Hrs @ 87.50	10.00	
	Dresser	0.11	Hrs @ 87.50	10.00	
	Labourer	1.35	Hrs @ 87.50	118.13	
	Contractor's profit & overhead		20%	35.50	
	Total Labour rate			<u>213.00</u>	213.00
	ii) Hard Soil				
	Detail of cost for 1 Cu.m				
	1. Labour				
	Cooly for dressing Earth	0.65	Hrs @ 87.50	56.88	
	Dewatering the rain	0.11	Hrs @ 87.50	10.00	

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
	Dresser	0.20 Hrs	@	87.50	17.50	
	Labourer	2.00 Hrs	@	87.50	175.00	
	Contractor's profit & overhead			20%	51.88	
	Total Labour rate				311.25	311.25
iii) Shingle and Gravel						
Detail of cost for 1 Cu.m						
1. Labour						
	Cooly for dressing Earth	0.85 Hrs	@	87.50	74.38	
	Dewatering the rain	0.11 Hrs	@	87.50	9.63	
	Dresser	0.30 Hrs	@	87.50	26.25	
	Labourer	2.50 Hrs	@	87.50	218.75	
	Contractor's profit & overhead			20%	65.80	
	Total Labour rate				394.80	394.80
b Two coats of hot bitumen soaked with hessian cloth, 1.25kg						
1.Labour						
	Pipe Fitter	1.10	Hrs @	125.00	137.50	
	Contractor's profit & overhead			20%	27.50	
	Total Labour rate				165.00	165.00
2.Material						
	Bitumen 60/70	0.55	Kg @	78.00	42.90	
Sq.m	Hessian Cloth	1.25	Kg @	46.00	57.50	
					100.40	
	Contractor's profit & overhead			20%	20.08	
	Total Composite rate				285.48	285.50
Item No. 3 -71						
a) Cutting rock for water supply pipe lines in trenches upto 5						
Detail of cost for 1 Cu.m						
1. Labour						
	Black smith	0.30 Hrs	@	112.00	33.60	
	Digger	3.16 Hrs	@	87.50	276.50	
	Chiseller	0.90 Hrs	@	87.50	78.75	
	Dresser	0.90 Hrs	@	87.50	78.75	
	Bahishti	0.23 Hrs	@	87.50	20.13	
	Labourer	1.35 Hrs	@	87.50	118.13	
	Contractor's profit & overhead			20%	121.17	
					727.02	727.00
Cu.m b Two coats of hot bitumen soaked with hessian cloth, 1.25kg						
1.Labour						
	Pipe Fitter	1.10	Hrs @	125.00	137.50	
	Contractor's profit & overhead			20%	27.50	
	Total Labour rate				165.00	165.00
2.Material						
	Bitumen	0.55	Kg @	78.00	42.90	
	Hessian Cloth	1.25	Kg @	46.00	57.50	
					100.40	
	Contractor's profit & overhead			20%	20.08	
	Total Composite rate				147.98	148.00
Item No. 3 -72						
Transportation of earth all types when the total distance						
Please see Section -1 (Carriage)						
Item No. 3 - 73						

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Earthwork excavation in open cutting from 10ft. to 15 ft (3 m to 4.5 m) depth for storm water channels, drains, sullage drains in open area, roads, streets lanes and shoring to protect existing works, shuttering and timbering the trenches dressed to designed level and dimension, trimming from trenches, backfilling and disposal of surplus excavated material upto 100 ft (30 m) including dressing, excluding removal of surface water from drains.					
Cu.m. a)	In ashes, sand, soft soil or silt clearance.					
	1. Labour					
	Labourer	0.39	Hrs	@	87.5	34.13
	Dresser	0.09	Hrs	@	87.5	7.88
	Carpenter special	0.14	Hrs	@	125	17.50
	Total					59.50
	Contractor's profit & overhead				20%	3.50
	Total Labour Rate					63.00
						63.00
	2. Material					
	Shuttering				9%	5.06
	3. Equipment					
	Excavator	0.03	Hrs	@	2500	75.00
	Wheel Tractor with Blade	0.09	Hrs	@	650	58.50
	Total					138.56
	Contractor's profit & overheads				20%	27.71
	Total					166.27
	Total Composite rate					234.33
						234.35
Cu.m. b)	Ordinary soil					
	1. Labour					
	Labourer	0.45	Hrs	@	87.5	39.38
	Dresser	0.09	Hrs	@	87.5	7.88
	Carpenter special	0.14	Hrs	@	125	17.50
	Total					64.75
	Contractor's profit & overhead				20%	3.50
	Total Labour Rate					68.25
						68.25
	2. Material					
	Shuttering				9%	5.50
	3. Equipment					
	Excavator	0.04	Hrs	@	2500	100.00
	Wheel Tractor with Blade	0.12	Hrs	@	650	78.00
	Total					178.00
	Contractor's profit & overheads				20%	35.60
	Total					213.60
	Total Composite rate					287.35
						287.35
Cu.m. c)	Hard soil					
	1. Labour					
	Labourer	0.5	Hrs	@	87.5	43.75
	Dresser	0.15	Hrs	@	87.5	13.13
	Carpenter special	0.14	Hrs	@	125	17.50
	Total					74.38
	Contractor's profit & overhead				20%	3.50
	Total Labour Rate					77.88
						77.90
	2. Material					
	Shuttering				9%	6.32
	3. Equipment					
	Excavator	0.05	Hrs	@	2500	125.00
	Wheel Tractor with Blade	0.15	Hrs	@	650	97.50
	Total					222.50
	Contractor's profit & overheads				20%	44.50
	Total					267.00
	Total Composite rate					351.20
						351.20
Cu.m. d)	Shingle or gravel					

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
1. Labour						
Labourer	0.6	Hrs	@	87.5	52.50	
Dresser	0.2	Hrs	@	87.5	17.50	
Carpenter special	0.14	Hrs	@	125	17.50	
Total					87.50	
Contractor's profit & overhead				20%	3.50	
Total Labour Rate					91.00	91.00
2. Material						
Shuttering				9%	7.44	
3. Equipment						
Excavator	0.06	Hrs	@	2500	150.00	
Wheel Tractor with Blade	0.18	Hrs	@	650	117.00	
Total					267.00	
Contractor's profit & overheads				20%	53.40	
Total					320.40	
Total Composite rate					418.84	418.85
Item No. 3 - 74						
Earthwork excavation in open cutting from 15ft. to 20 ft (4.5 m to 6 m) depth for storm water channels, drains, sullage drains in open area, roads, streets lanes and shoring to protect existing works, shuttering and timbering the trenches dressed to designed level and dimension, trimming from trenches, backfilling and disposal of surplus excavated material upto 100 ft (30 m) including dressing, excluding removal of surface water from drains.						
Cu.m. a) In ashes, sand, soft soil or silt clearance.						
1. Labour						
Labourer	0.39	Hrs	@	87.5	34.13	
Dresser	0.09	Hrs	@	87.5	7.88	
Carpenter special	0.25	Hrs	@	125	31.25	
Total					73.25	
Contractor's profit & overhead				20%	3.50	
Total Labour Rate					76.75	76.75
2. Material						
Shuttering				9%	6.23	
3. Equipment						
Excavator	0.045	Hrs	@	2500	112.50	
Wheel Tractor with Blade	0.09	Hrs	@	650	58.50	
Total					177.23	
Contractor's profit & overheads				20%	35.45	
Total					212.67	
Total Composite rate					295.65	295.65
Cu.m. b) Ordinary soil						
1. Labour						
Labourer	0.45	Hrs	@	87.5	39.38	
Dresser	0.09	Hrs	@	87.5	7.88	
Carpenter special	0.25	Hrs	@	125	31.25	
Total					78.50	
Contractor's profit & overhead				20%	3.50	
Total Labour Rate					82.00	82.00
2. Material						
Shuttering				9%	6.67	
3. Equipment						
Excavator	0.05	Hrs	@	2500	125.00	
Wheel Tractor with Blade	0.12	Hrs	@	650	78.00	
Total					203.00	
Contractor's profit & overheads				20%	40.60	
Total					243.60	
Total Composite rate					332.27	332.25
Cu.m. c) Hard soil						
1. Labour						
Labourer	0.5	Hrs	@	87.5	43.75	
Dresser	0.15	Hrs	@	87.5	13.13	
Carpenter special	0.25	Hrs	@	125	31.25	

Unit	Description	Component Cost		Unit Rate
		(Rs)		(Rs)
	Total			88.13
	Contractor's profit & overhead	20%		3.50
	Total Labour Rate			91.63
				91.65
	2. Material			
	Shuttering	9%		7.49
	3. Equipment			
	Excavator	0.065	Hrs @ 2500	162.50
	Wheel Tractor with Blade	0.15	Hrs @ 650	97.50
	Total			260.00
	Contractor's profit & overheads	20%		52.00
	Total			312.00
	Total Composite rate			411.12
				411.10
Cu.m. d)	Shingle or gravel			
	1. Labour			
	Labourer	0.6	Hrs @ 87.5	52.50
	Dresser	0.2	Hrs @ 87.5	17.50
	Carpenter special	0.25	Hrs @ 125	31.25
	Total			101.25
	Contractor's profit & overhead	20%		3.50
	Total Labour Rate			104.75
				104.75
	2. Material			
	Shuttering	9%		8.61
	3. Equipment			
	Excavator	0.075	Hrs @ 2500	187.50
	Wheel Tractor with Blade	0.18	Hrs @ 650	117.00
	Total			304.50
	Contractor's profit & overheads	20%		60.90
	Total			365.40
	Total Composite rate			478.76
				478.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 4 - 1 - 1				
Cu.m.	Dismantling dry stone masonry			
	Labourer	1.92	Hrs @	87.50
	Contractor's profit & overhead			20%
	Total Labour rate			168.00 33.60 201.60
Item No. 4 - 2 - 1				
Cu.m.	Dismantling stone masonry in mud mortar.			
	Labourer	2.83	Hrs @	87.50
	Contractor's profit & overhead			20%
	Total Labour rate			247.63 49.53 297.15
Item No. 4 - 3 - 1				
Cu.m.	Dismantling stone masonry in lime or cement mortar.			
	Labourer	6.78	Hrs @	87.50
	Contractor's profit & overhead			20%
	Total Labour rate			593.25 118.65 711.90
Item No. 4 - 4				
Cu.m.	a) Dismantling dry stone or spawl pitching.			
	Labourer	3.39	Hrs @	87.50
	Contractor's profit & overhead			20%
	Total Labour rate			296.63 59.33 355.95
Cu.m.	b) Dismantling stone or spawl pitching (mud grouted).			
	Labourer	1.29	Hrs @	87.50
	Contractor's profit & overhead			20%
	Total Labour rate			112.88 22.58 135.45
Item No. 4 - 5 - 1				
Cu.m.	Dismantling stone or spawl pitching and apron in silted condition.			
	Labourer	5.65	Hrs @	87.50
	Contractor's profit & overhead			20%
	Total Labour rate			494.38 98.88 593.25
Item No. 4 - 6 - 1				
Cu.m.	Dismantling stone pitching, cement or lime grouted.			
	Labourer	9.04	Hrs @	87.50
	Contractor's profit & overhead			20%
	Total Labour rate			791.00 158.20 949.20

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
Item No. 4 - 7							
Dismantling stone in							
Cu.m.	a) Wooden crates						
	Labourer	4.52	Hrs	@	87.50	395.50	
	Contractor's profit & overhead				20%	79.10	
	Total Labour rate					474.60	474.60
Cu.m.	b) Wire mesh crates						
	Labourer	5.65	Hrs	@	87.50	494.38	
	Contractor's profit & overhead				20%	98.88	
	Total Labour rate					593.25	593.25
Cu.m.	c) Mild steel mesh crates						
	Labourer	7.00	Hrs	@	87.50	612.50	
	Contractor's profit & overhead				20%	122.50	
	Total Labour rate					735.00	735.00
Item No. 4 - 8 - 1							
Cu.m.	Dismantling stoneware drain including base concrete						
	Labourer	3.16	Hrs	@	87.50	276.50	
	Contractor's profit & overhead				20%	55.30	
	Total Labour rate					331.80	331.80
BRICK WORK							
Item No. 4 - 9 - 1							
Cu.m.	Dismantling mud/pise walling						
	Labourer	1.13	Hrs	@	87.50	98.88	
	Contractor's profit & overhead				20%	19.78	
	Total Labour rate					118.65	118.65
Item No. 4 - 10 - 1							
Cu.m.	Dismantling sundried brick masonry						
	Labourer	2.83	Hrs	@	87.50	247.63	
	Contractor's profit & overhead				20%	49.53	
	Total Labour rate					297.15	297.15
Item No. 4 - 11							
Cu.m.	a) Dismantling dry brick masonry in ground floor						
	Labourer	1.92	Hrs	@	87.50	168.00	
	Contractor's profit & overhead				20%	33.60	
	Total Labour rate					201.60	201.60
Cu.m.	b) Extra for first floor						
	Labourer	0.35	Hrs	@	87.50	30.63	
	Contractor's profit & overhead				20%	6.13	
	Total Labour rate					36.75	36.75

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 4 - 12					
Cu.m. a) Dismantling brickwork in mud mortar					
Labourer	3.96	Hrs	@	87.50	346.50
Contractor's profit & overhead				20%	69.30
Total Labour rate					415.80
					415.80
Cu.m. b) Extra for first floor					
Labourer	0.70	Hrs	@	87.50	61.25
Contractor's profit & overhead				20%	12.25
Total Labour rate					73.50
					73.50
Item No. 4 - 13					
Cu.m. a) Dismantling brickwork in lime or cement mortar upto 9" width					
Labourer	9.61	Hrs	@	87.50	840.88
Contractor's profit & overhead				20%	168.18
Total Labour rate					1009.05
					1009.05
Cu.m. b) Dismantling brickwork in lime or cement mortar greater than 9" width					
Labourer	11.00	Hrs	@	87.50	962.50
Contractor's profit & overhead				20%	192.50
Total Labour rate					1155.00
					1155.00
Cu.m. c) Extra for first floor upto 9" width					
Labourer	1.65	Hrs	@	87.50	144.38
Contractor's profit & overhead				20%	28.88
Total Labour rate					173.25
					173.25
Cu.m. d) Extra for first floor greater than 9" width					
Labourer	1.95	Hrs	@	87.50	170.63
Contractor's profit & overhead				20%	34.13
Total Labour rate					204.75
					204.75
Item No. 4 - 14					
Cu.m. a) Dismantling cement block masonry upto 8" width					
Labourer	8.48	Hrs	@	87.50	742.00
Contractor's profit & overhead				20%	148.40
Total Labour rate					890.40
					890.40
Cu.m. b) Dismantling cement block masonry greater than 8" width					
Labourer	10.00	Hrs	@	87.50	875.00
Contractor's profit & overhead				20%	175.00
Total Labour rate					1050.00
					1050.00
Cu.m. c) Extra for first floor upto 8" width					
Labourer	1.50	Hrs	@	87.50	131.25
Contractor's profit & overhead				20%	26.25
Total Labour rate					157.50
					157.50

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
Cu.m.	d) Extra for first floor greater than 8" width					
	Labourer	1.80	Hrs	@	87.50	157.50
	Contractor's profit & overhead				20%	31.50
	Total Labour rate					<u>189.00</u> 189.00
	Item No. 4 - 15 - 1					
Cu.m.	Dismantling dhajji walling					
	Labourer	2.26	Hrs	@	87.50	197.75
	Contractor's profit & overhead				20%	39.55
	Total Labour rate					<u>237.30</u> 237.30
	CONCRETE					
	Item No. 4 - 16 - 1					
Cu.m.	Dismantling mud concrete					
	Labourer	4.52	Hrs	@	87.50	395.50
	Contractor's profit & overhead				20%	79.10
	Total Labour rate					<u>474.60</u> 474.60
	Item No. 4 - 17 - 1					
Cu.m.	Dismantling lime concrete					
	1. Labour					
	Labourer	6.22	Hrs	@	87.50	544.25
	Contractor's profit & overhead				20%	108.85
	Total Labour rate					<u>653.10</u> 653.10
	2. Machinery					
	Add for Jack hammer, air compressor				15%	81.64
	Contractor's profit & overhead				20%	16.33
	Total					<u>97.97</u>
	Total Composite rate					<u>751.07</u> 751.05
	Item No. 4 - 18 - 1					
Cu.m.	Dismantling lime or cement concrete under water.					
	1. Labour					
	Labourer	23.74	Hrs	@	87.50	2077.25
	Contractor's profit & overhead				20%	415.45
	Total Labour rate					<u>2492.70</u> 2492.70
	2. Machinery					
	Add for Jack hammer, air compressor				15%	311.59
	Contractor's profit & overhead				20%	62.32
	Total					<u>373.91</u>
	Total Composite rate					<u>2866.61</u> 2866.60
	Item No. 4 - 19					
Cu.m.	Dismantling plain cement concrete					
	a) Dismantling plain cement concrete 1 : 2 : 4 & richer mixes					
	1. Labour					
	Labourer	2.00	Hrs	@	87.50	175.00
	Contractor's profit & overhead				20%	35.00
	Total Labour rate					<u>210.00</u> 210.00

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
2. Machinery						
Jack Hammer	0.50	Hrs	@	4500.00	2250.00	
Air compressor	0.50	Hrs	@	600.00	300.00	
Contractor's profit & overhead				20%	450.00	
Total					3000.00	
Total Composite rate					3210.00	3210.00
Cu.m. b) Dismantling plain cement concrete 1 : 3 : 6						
1. Labour						
Labourer	2.00	Hrs	@	87.50	175.00	
Contractor's profit & overhead				20%	35.00	
Total Labour rate					210.00	210.00
2. Machinery						
Jack Hammer	0.33	Hrs	@	4500.00	1485.00	
Air compressor	0.33	Hrs	@	600.00	198.00	
Contractor's profit & overhead				20%	297.00	
Total					1980.00	
Total Composite rate					2190.00	2190.00
Cu.m. c) Dismantling plain cement concrete 1 : 4 : 8 & leaner mixes						
1. Labour						
Labourer	12.43	Hrs	@	87.50	1087.63	
Contractor's profit & overhead				20%	217.53	
Total Labour rate					1305.15	1305.15
2. Machinery						
Jack Hammer	0.33	Hrs	@	4500.00	1485.00	
Air compressor	0.33	Hrs	@	600.00	198.00	
Contractor's profit & overhead				20%	297.00	
Total					1980.00	
Total Composite rate					3285.15	3285.15
Cu.m. d) Dismantling cement concrete with brick aggregate						
1. Labour						
Labourer	6.78	Hrs	@	87.50	593.25	
Contractor's profit & overhead				20%	118.65	
Total Labour rate					711.90	711.90
2. Machinery						
Add for Jack hammer, air compressor				15%	88.99	
Contractor's profit & overhead				20%	17.80	
Total					106.79	
Total Composite rate					818.69	818.70
Cu.m. e) Dismantling 2 inch (50 mm.) thick cement concrete D.P.C.						
1. Labour						
Labourer	3.39	Hrs	@	87.50	296.63	
Contractor's profit & overhead				20%	59.33	
Total Labour rate					355.95	355.95
2. Machinery						
Add for Jack hammer, air compressor				0%	0.00	
Contractor's profit & overhead				20%	0.00	
Total					0.00	
Total Composite rate					355.95	355.95

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 4 - 20 - 1

Cu.m. Dismantling reinforced cement concrete, separating reinforcement from concrete, clearing and straightening the same

1. Labour

Labourer	10.00	Hrs	@	87.50	875.00
Contractor's profit & overhead				20%	175.00
Total Labour rate					<u>1050.00</u>

1050.00

2. Machinery

Jack Hammer	0.75	Hrs	@	4500.00	3375.00
Air compressor	0.75	Hrs	@	600.00	450.00
Contractor's profit & overhead				20%	675.00
Total					<u>4500.00</u>
Total Composite rate					5550.00

5550.00**ROOFING****Item No. 4 - 21 - 1**

Sq.m. Dismantling sirki, sarkanda or thached roofing, supported on battens or ballies

Labourer	0.41	Hrs	@	87.50	35.88
Contractor's profit & overhead				20%	7.18
Total Labour rate					<u>43.05</u>

43.05**Item No. 4 - 22****Dismantling**

Sq.m. a) Dismantling 1st class tile roofing

Labourer	1.03	Hrs	@	87.50	90.13
Contractor's profit & overhead				20%	18.03
Total Labour rate					<u>108.15</u>

108.15

Sq.m. b) Dismantling 2nd class tile roofing

Labourer	0.86	Hrs	@	87.50	75.25
Contractor's profit & overhead				20%	15.05
Total Labour rate					<u>90.30</u>

90.30**Item No. 4 - 23 - 1**

Sq.m. Dismantling from any height, asbestos sheets and ridge coping

Labourer	0.34	Hrs	@	87.50	29.75
Fitter	0.17	Hrs	@	87.50	14.88
Total					<u>44.63</u>
Contractor's profit & overhead				20%	8.93
Total Labour rate					<u>53.55</u>

53.55**Item No. 4 - 24**

Sq.m. a) Dismantling roof of wooden planks and battens from any height

Labourer	0.28	Hrs	@	87.50	24.50
Carpenter	0.17	Hrs	@	125.00	21.25
					<u>45.75</u>
Contractor's profit & overhead				20%	9.15
Total Labour rate					<u>54.90</u>

54.90

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
Sq.m.	b) Dismantling wooden ceiling above 20 ft. (6 m.) height in difficult position, including lifting with care and special scaffolding along live electric wires with machines underneath						
	Labourer	1.24	Hrs	@	87.50	108.50	
	Carpenter	0.41	Hrs	@	125.00	51.25	
						159.75	
	Contractor's profit & overhead				20%	31.95	
	Total Labour rate					191.70	191.70
	Item No. 4 - 25 - 1						
Sq.m.	Dismantling jack arch roofing including removal of joints						
	Labourer	1.38	Hrs	@	87.50	120.75	
	Contractor's profit & overhead				20%	24.15	
	Total Labour rate					144.90	144.90
	Item No. 4 - 26 - 1						
Sq.m.	Dismantling R.B. roof complete with mud and mud plaster, including separating reinforcement, clearing and straightening the same.						
	Labourer	1.72	Hrs	@	87.50	150.50	
	Contractor's profit & overhead				20%	30.10	
	Total Labour rate					180.60	180.60
	Item No. 4 - 27						
Sq.m.	a) Stripping and stacking slate or tiles from the truss roofing						
	Labourer	0.59	Hrs	@	87.50	51.63	
	Contractor's profit & overhead				20%	10.33	
	Total Labour rate					61.95	61.95
Sq.m.	b) Stripping and stacking G.I. sheet roof						
	Labourer	0.69	Hrs	@	87.50	60.38	
	Fitter	0.08	Hrs	@	87.50	7.00	
						67.38	
	Contractor's profit & overhead				20%	13.48	
	Total Labour rate					80.85	80.85
Sq.m.	c) Extra for dismantling G.I. sheet roof above 20 ft. (6 m.) in difficult position, including lifting with special scaffolding along live electric wire with machine underneath						
	Labourer	0.17	Hrs	@	87.50	14.88	
	Black smith	0.69	Hrs	@	112.00	77.28	
						92.16	
	Contractor's profit & overhead				20%	18.43	
	Total Labour rate					110.59	110.60
Kg.	d) Dismantling R.S. beam in ground floor and stacking lead upto 300 ft. (90m.)						
	Black smith	0.02	Hrs	@	112.00	2.24	
	Labourer	0.15	Hrs	@	87.50	13.13	
						15.37	
	Contractor's profit & overhead				20%	3.07	
	Total Labour rate					18.44	18.45

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Sq.m.	e) Dismantling planked ceiling and its supporting timber in ground floor including stacking serviceable material & disposal of unserviceable material upto 300 ft. (90 m.)			
	Carpenter	0.30	Hrs @	125.00
	Labourer	0.60	Hrs @	87.50
				90.00
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			108.00

Item No. 4 - 28 - 1Sq.m. **Dismantling slates or tiles including battens, purlins and planking.**

	Labourer	1.38	Hrs @	87.50	120.75
	Contractor's profit & overhead		20%		24.15
	Total Labour rate			144.90	144.90

FLOORING**Item No. 4 - 29 - 1**Sq.m. **Dismantling brick or flagged flooring without concrete foundation.**

	Labourer	0.59	Hrs @	87.50	51.63
	Contractor's profit & overhead		20%		10.33
	Total Labour rate			61.95	61.95

Item No. 4 - 30Sq.m. **a) Dismantling plank or wooden block flooring etc**

	Labourer	0.86	Hrs @	87.50	75.25
	Contractor's profit & overhead		20%		15.05
	Total Labour rate			90.30	90.30

Sq.m. **b) Dismantling stone or precast slab floors of any thickness in any matter including stacking serviceable material and disposing of surplus material lead upto 300 ft.(90m)**

	Labourer	4.50	Hrs @	87.50	393.75
	Contractor's profit & overhead		20%		78.75
	Total Labour rate			472.50	472.50

Sq.m. **c) Dismantling cement tiled/terrazzo floor in basement, plinth and ground floor including base mortar and staking salvaged material (serviceable) and disposing of surplus stuff as directed within 300 ft. (90 m.)**

	Labourer	3.95	Hrs @	87.50	345.63
	Contractor's profit & overhead		20%		69.13
	Total Labour rate			414.75	414.75

Sq.m. **d) Dismantling dado or skirting in basement, plinth and ground floor including base mortar and staking salvaged material (serviceable) and disposing of surplus stuff as directed within 300 ft. (90 m.)**

	Labourer	3.71	Hrs @	87.50	324.63
	Contractor's profit & overhead		20%		64.93
	Total Labour rate			389.55	389.55

Item No. 4 - 31**Disjoining RCC pipes inside the trench, dismantling and removing the pipes from the trench**

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
	and stacking them outside.					
R.M.	a) 6 inches to 12 inches (150 mm to 300 mm.) diameter					
	Labourer	1.00	Hrs	@	87.50	87.50
	Contractor's profit & overhead				20%	17.50
	Total Labour rate					<u>105.00</u> 105.00
R.M.	b) Above 1 ft. to 2 ft. (300mm to 600mm.) diameter					
	Labourer	1.50	Hrs	@	87.50	131.25
	Contractor's profit & overhead				20%	26.25
	Total Labour rate					<u>157.50</u> 157.50
R.M.	c) Above 2 ft to 3 ft. (600mm to 900mm) diameter					
	Labourer	1.75	Hrs	@	87.50	153.13
	Contractor's profit & overhead				20%	30.63
	Total Labour rate					<u>183.75</u> 183.75
R.M.	d) Above 3 ft. (900 mm) diameter					
	Labourer	3.00	Hrs	@	87.50	262.50
	Contractor's profit & overhead				20%	52.50
	Total Labour rate					<u>315.00</u> 315.00

The rate does not include the cost of excavation and refilling of trench, or demolition of any masonry or Bends, elbows, sluice valves, etc. should not be paid for extra if fixed in the length of pipeline that is being dismantled

WOOD WORK

Item No. 4 - 32

Each a) Removing door with chowkat

Carpenter	0.40	Hrs	@	125.00	50.00
Mason	0.80	Hrs	@	125.00	100.00
Labourer	1.20	Hrs	@	87.50	105.00
					<u>255.00</u>
Contractor's profit & overhead				20%	51.00
Total Labour rate					<u>306.00</u> 306.00

Each b) Removing windows and sky lights with chowkat

Carpenter	0.40	Hrs	@	125.00	50.00
Mason	0.64	Hrs	@	125.00	80.00
Labourer	0.80	Hrs	@	87.50	70.00
					<u>200.00</u>
Contractor's profit & overhead				20%	40.00
Total Labour rate					<u>240.00</u> 240.00

Item No. 4 - 33 - 1

Each Removing ventilators and wooden sunshades, etc.

Carpenter	0.16	Hrs	@	125.00	20.00
Mason	0.40	Hrs	@	125.00	50.00
Labourer	0.40	Hrs	@	87.50	35.00
					<u>105.00</u>

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	21.00	
Total Labour rate		126.00	126.00

Item No. 4 - 34**Each a) Dismantling wooden beams upto 13 ft. (4 m.) in length**

Labourer	2.00	Hrs	@	87.50	175.00	
Contractor's profit & overhead				20%	35.00	
Total Labour rate					210.00	210.00

Each b) Dismantling wooden beams from 13 ft to 23 ft. (4 m. to 7 m.) length

Labourer	3.20	Hrs	@	87.50	280.00	
Contractor's profit & overhead				20%	56.00	
Total Labour rate					336.00	336.00

Item No. 4 - 35**Sq.m. a) Dismantling wooden partition jaffry work**

Labourer	0.25	Hrs	@	87.50	21.88	
Carpenter	0.12	Hrs	@	125.00	15.00	
					36.88	
Contractor's profit & overhead				20%	7.38	
Total Labour rate					44.25	44.25

% Kg. b) Dismantling wooden Trusses

Black smith	0.66	Hrs	@	112.00	73.92	
Labourer	10.50	Hrs	@	87.50	918.75	
					992.67	
Contractor's profit & overhead				20%	198.53	
Total Labour rate					1191.20	1191.20

Item No. 4 - 36 - 1**R.M. Dismantling wooden palisade fencing**

Carpenter	0.44	Hrs	@	125.00	55.00	
Labourer	0.44	Hrs	@	87.50	38.50	
					93.50	
Contractor's profit & overhead				20%	18.70	
Total Labour rate					112.20	112.20

IRON WORK**Item No. 4 - 37 - 1****Kg. Dismantling iron-work of trusses, sheds, water tanks excluding cutting of rivets.**

Black smith	3.00	Hrs	@	112.00	336.00	
Labourer	9.00	Hrs	@	87.50	787.50	
					1123.50	
Contractor's profit & overhead				20%	224.70	
Total Labour rate					1348.20	1348.20

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
Item No. 4 - 38 - 1						
Kg.	Dismantling rolled steel beams or iron rails etc.					
	Labourer	6.50	Hrs	@	87.50	568.75
	Contractor's profit & overhead				20%	113.75
	Total Labour rate					<u>682.50</u> 682.50
Item No. 4 - 39 - 1						
Unit of 2 seats	Dismantling iron latrine					
	Fitter	3.20	Hrs	@	87.50	280.00
	Labourer	8.00	Hrs	@	87.50	700.00
						<u>980.00</u>
	Contractor's profit & overhead				20%	196.00
	Total Labour rate					<u>1176.00</u> 1176.00
Item No. 4 - 40 - 1						
Each	Dismantling tees,bends or sluice value upto 12 inches (300 mm) bore					
	Fitter	1.33	Hrs	@	87.50	116.38
	Labourer	1.33	Hrs	@	87.50	116.38
						<u>232.75</u>
	Contractor's profit & overhead				20%	46.55
	Total Labour rate					<u>279.30</u> 279.30
Item No. 4 - 41						
Each	a) Dismantling B.G. water column					
	Mistri	6.00	Hrs	@	110.00	660.00
	Black smith	6.00	Hrs	@	112.00	672.00
	Labourer	64.00	Hrs	@	87.50	5600.00
						<u>6932.00</u>
	Contractor's profit & overhead				20%	1386.40
	Total Labour rate					<u>8318.40</u> 8318.40
Each	b) Dismantling M.G. or N.G. water column.					
	Mistri	4.00	Hrs	@	110.00	440.00
	Black smith	6.00	Hrs	@	112.00	672.00
	Labourer	40.00	Hrs	@	87.50	3500.00
						<u>4612.00</u>
	Contractor's profit & overhead				20%	922.40
	Total Labour rate					<u>5534.40</u> 5534.40
Item No. 4 - 42 - 1						
R.M.	Dismantling all type of wire fencing including rolling wire into bundles and collecting material					
	Labourer	0.17	Hrs	@	87.50	14.88
	Contractor's profit & overhead				20%	2.98
	Total Labour rate					<u>17.85</u> 17.85
Item No. 4 - 43 - 1						
Sq.m.	Dismantling wire netting of tennis courts and frame work					
	Labourer	0.28	Hrs	@	87.50	24.50
	Contractor's profit & overhead				20%	4.90
	Total Labour rate					<u>29.40</u> 29.40

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 4 - 44 - 1**Sq.m. Dismantling cloth ceiling and supporting timber**

Labourer	0.51	Hrs	@	87.50	44.63
Contractor's profit & overhead				20%	8.93
Total Labour rate					53.55
					53.55

Item No. 4 - 45**Cu.m. a) Dismantling and removing road metalling**

Manual Jack Hammer	0.59	Hrs	@	500.00	295.00
Contractor's profit & overhead				20%	59.00
Total Labour rate					354.00
					354.00

Cu.m. b) Dismantling and removing road pavement, etc. including screening and stacking of by product upto 100 ft. (30 m.) lead.

Labourer	4.00	Hrs	@	87.50	350.00
Manual Jack Hammer	0.59	Hrs	@	500.00	295.00
Contractor's profit & overhead				20%	129.00
Total Labour rate					479.00
					479.00

Item No. 4 - 46**Sq.m. a) Removing mud plaster from walls (where no scaffolding is required)**

Labourer	0.14	Hrs	@	87.50	12.25
Contractor's profit & overhead				20%	2.45
Total Labour rate					14.70
					14.70

Sq.m. b) Removing earth, mud plaster and gobi leaping from roof including disposal up to 100 ft. (90 m)**i) 3 inches (75 mm) earth filling and mud plaster 1 inch (25 mm) thick**

Labourer	1.50	Hrs	@	87.50	131.25
Contractor's profit & overhead				20%	26.25
Total Labour rate					157.50
					157.50

ii) 4 inches (100 mm) earth filling and mud plaster 1 inch (25 mm) thick

Labourer	2.00	Hrs	@	87.50	175.00
Contractor's profit & overhead				20%	35.00
Total Labour rate					210.00
					210.00

Item No. 4 - 47 - 1**Sq.m. Removing cement or lime plaster from walls (where no scaffolding is required)**

Labourer	0.29	Hrs	@	87.50	25.38
Contractor's profit & overhead				20%	5.08
Total Labour rate					30.45
					30.45

SCRAPING**Item No. 4 - 48****Sq.m. a) White wash or color wash from walls and ceiling**

Labourer	0.14	Hrs	@	87.50	12.25
Contractor's profit & overhead				20%	2.45
Total Labour rate					14.70
					14.70

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
Sq.m.	b) Ordinary distemper, oil free distemper from walls and ceiling					
	Labourer	0.52	Hrs	@	87.50	45.50
	Contractor's profit & overhead				20%	9.10
	Total Labour rate					<u>54.60</u> 54.60
	Item No. 4 - 49 - 1					
Sq.m.	Dismantling glazed or encaustic tiles from walls (where no scaffolding is required)					
	Mason	0.69	Hrs	@	125.00	86.25
	Labourer	0.69	Hrs	@	87.50	60.38
						<u>146.63</u>
	Contractor's profit & overhead				20%	29.33
	Total Labour rate					<u>175.95</u> 175.95
	Item No. 4 - 50 - 1					
Cu.m.	Scraping boulders					
	Labourer	7.90	Hrs	@	87.50	691.25
	Contractor's profit & overhead				20%	138.25
	Total Labour rate					<u>829.50</u> 829.50
	Item No. 4 - 51 - 1					
Cu.m.	Cleaning mortar of old stones to be used in masonry					
	Labourer	4.00	Hrs	@	87.50	350.00
	Contractor's profit & overhead				20%	70.00
	Total Labour rate					<u>420.00</u> 420.00
	Item No. 4 - 52 - 1					
Per Point	Dismantling light, fan and call bell point including casing and capping strip open type and making good damaged surface					
	Electrician	0.27	Hrs	@	125.00	33.75
	Mason	0.11	Hrs	@	125.00	13.75
						<u>47.50</u>
	Contractor's profit & overhead				20%	9.50
	Total Labour rate					<u>57.00</u> 57.00
	2. Materials					
	Material for making good				10%	4.75
	Contractor's profit & overhead				20%	0.95
	Total					<u>5.70</u>
	Total Composite rate					<u>62.70</u> 62.70
	Item No. 4 - 53 - 1					
Per Point	Dismantling plug point and making good damaged surface					
	Electrician	0.30	Hrs	@	125.00	37.50
	Mason	0.10	Hrs	@	125.00	12.50
						<u>50.00</u>
	Contractor's profit & overhead				20%	10.00
	Total Labour rate					<u>60.00</u> 60.00
	2. Materials					
	Material for making good				10%	5.00
	Contractor's profit & overhead				20%	1.00
	Total					<u>6.00</u>
	Total Composite rate					<u>66.00</u> 66.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 4 - 54 - 1

Dismantling G.I/ M.S. conduit/ G.I. flexible/ PVC pipes or conduit wiring etc. of all sizes including making good damaged surface.

R.M. a) On surface

1. Labour						
Electrician	0.16	Hrs	@	125.00	20.00	
Mason	0.08	Hrs	@	125.00	10.00	
					<u>30.00</u>	
Contractor's profit & overhead				20%	6.00	
Total Labour rate					<u>36.00</u>	36.00
2. Materials						
Material for making good				0%	0.00	
Contractor's profit & overhead				20%	0.00	
Total					<u>0.00</u>	
Total Composite rate					36.00	36.00

R.M. b) Recessed in wall

1. Labour						
Electrician	0.27	Hrs	@	125.00	33.75	
Mason	0.27	Hrs	@	125.00	33.75	
					<u>67.50</u>	
Contractor's profit & overhead				20%	13.50	
Total Labour rate					<u>81.00</u>	81.00
2. Materials						
Material for making good				0%	0.00	
Contractor's profit & overhead				20%	0.00	
Total					<u>0.00</u>	
Total Composite rate					81.00	81.00

Item No. 4 - 55 - 1

Sq.m. Scraping, rubbing and cleaning of oil bound distemper from ceiling and walls including removal of rubbish in all floors.

Detail of Cost of 10 Sq.m.

1. Labour						
Labourer	2.00	Hrs	@	87.50	175.00	
Bahishti	1.00	Hrs	@	87.50	87.50	
					<u>262.50</u>	
Contractor's profit & overhead				20%	52.50	
Total					<u>315.00</u>	
Total Labour rate					31.50	31.50
2. Material						
Caustic soda	0.10	Kg.	@	70.00	7.00	
Sand paper	6.00	No.	@	20.00	120.00	
Hessian	0.10	Kg.	@	46.00	4.60	
Water Charges				1.5%	3.94	
					<u>135.54</u>	
3. Scaffolding and sundries				5%	13.13	
Total 2 & 3					<u>148.66</u>	
Contractor's profit & overhead				20%	29.73	
Total					<u>178.40</u>	
Total Composite rate					49.34	49.35

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 4 - 56 - 1

Sq.m. Scraping, rubbing and cleaning emulsion finish distemper, snowcem and paints of all sort from walls and ceiling including removal of rubbish in all floors.

Detail of cost of 10

1. Labour

Labourer	4.00	Hrs	@	87.50	350.00
Bahishti	1.00	Hrs	@	87.50	87.50

437.50

Contractor's profit & overhead

20%

87.50

Total

525.00

Total Labour rate

52.50

52.50

2. Material

Caustic soda	0.15	Kg.	@	70.00	10.50
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Sand paper	3.00	No.	@	20.00	60.00
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Hessian	0.15	Kg.	@	46.00	6.90
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Water Charges				1.5%	6.56
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83.96

3. Scaffolding and sundries

5%

21.88

Total 2 & 3

105.84

Contractor's profit & overhead

20%

21.17

Total

127.01

Total Composite rate

65.20

65.20**Item No. 4 - 57 - 1**

Sq.m. Brushing and cleaning with solution of caustic soda the surface of stone masonry, brick masonry and concrete including removal of rubbish in all floor.

Detail of cost of 10 Sq.m.

1. Labour

Labourer	1.50	Hrs	@	87.50	131.25
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Bahishti	1.00	Hrs	@	87.50	87.50
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218.75

Contractor's profit & overhead

20%

43.75

Total

262.50

Total Labour rate

26.25

26.25

2. Material

Same as in item 4 - 56

83.96

3. Scaffolding and sundries

5%

10.94

Total 2 & 3

94.90

Contractor's profit & overhead

20%

18.98

Total

113.88

Total Composite rate

37.64

37.65**Item No. 4 - 58****Removing mud plaster & disposing of the rubbish.****Sq.m. a) From walls**

Detail of cost of 10 Sq.m.

1. Labour

Labourer	4.00	Hrs	@	87.50	350.00
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Contractor's profit & overhead				20%	70.00
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Total

420.00

Total Labour rate

42.00

42.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

3. Scaffolding and sundries	5%	1.38
Contractor's profit & overhead	20%	0.28
Total		1.66
Total Composite rate		42.17

42.15

Sq.m. b) From roof

Detail of cost of 10

1. Labour

Labourer	3.00	Hrs	@	87.50	262.50
Contractor's profit & overhead				20%	52.50
Total					315.00
Total Labour rate					31.50

31.50

3. Scaffolding and sundries	5%	1.38
Contractor's profit & overhead	20%	0.28
Total		1.66
Total Composite rate		31.67

31.65

Item No. 4 - 59 - 1**Sq.m. Removing cement or lime plaster of any thickness from ceiling and disposing of the rubbish in any floor**

Detail of cost of 10 Sq.m.

1. Labour

Chiseller	3.00	Hrs	@	90.00	270.00
Labourer	1.50	Hrs	@	87.50	131.25
Total					401.25
Contractor's profit & overhead				20%	80.25
Total					481.50

48.15

Total Labour rate					48.15
3. Scaffolding and sundries				5%	1.38
Contractor's profit & overhead				20%	0.28
Total					1.66
Total Composite rate					48.32

48.30

Item No. 4 - 60 - 1**Sq.m. Removing stains from wood work by scraping or applying any approved chemical including removal of rubbish from the site**

Detail of cost for 10 Sq.m.

1. Labour

Labourer	2.00	Hrs	@	87.50	175.00
Contractor's profit & overhead				20%	35.00
Total					210.00
Total Labour rate					21.00

21.00

2. Material

Caustic soda	0.10	Kg.	@	70.00	7.00
Sand paper	1.00	No.	@	20.00	20.00
Hessian cloth				33%	8.91
Total					35.91

3. Sundries				2.5%	0.90
Total 2 & 3					36.81
Contractor's profit & overhead				20%	7.36
Total					44.17
Total Composite rate					25.42

25.40

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 4 - 61 - 1

Sq.m. Scraping old paints of all sorts with blow lamp from wood, plastered, rendered and/or concrete surface including rubbing, cleaning and removal of rubbish from site

Detail of cost for 10 Sq.m.

1. Labour

Painter	1.00	Hrs	@	125.00	125.00
Helper	1.00	Hrs	@	75.00	75.00
Total					200.00
Contractor's profit & overhead				20%	40.00
Total					240.00
Total Labour rate					24.00

24.00

2. Material

Caustic soda	0.15	Kg.	@	70.00	10.50
Sand paper	1.00	No.	@	20.00	20.00
Oil kerosine	0.50	Litre	@	88.00	44.00
Hessian cloth				15%	11.18
Blow lamp (Hire charges)				5%	3.73
Total					89.40

3. Sundries

Total of 2 & 3					5.00
Contractor's profit & overhead				20%	18.88
Total					113.28
Total Composite rate					35.33

35.35**Item No. 4 - 62 - 1**

Sq.m. Scraping old paint of all sorts with blow lamp from steel and iron work including rubbing, cleaning and removal of rubbish from site

Detail of cost for 10 Sq.m.

1. Labour

Painter	0.75	Hrs	@	125.00	93.75
Helper	0.75	Hrs	@	75.00	56.25
Total					150.00
Contractor's profit & overhead				20%	30.00
Total					180.00
Total Labour rate					18.00

18.00

2. Material

Sand paper	1.00	No.	@	20.00	20.00
Wire brush	0.13	No.	@	50.00	6.50
Oil kerosine	0.50	Litre	@	88.00	44.00
Hessian cloth				15%	10.58
Blow lamp (Hire charges)				5%	3.53
Total					84.60

3. Sundries

Total of 2 & 3					3.75
Contractor's profit & overhead				20%	88.35
Total					17.67
Total Composite rate					106.02
Total Composite rate					28.60

28.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 4 - 63 - 1

Sq.m. Removing all sorts of varnish and polishes without blow lamp from wooden surface including removal of rubbish from site

Detail of cost for 10 Sq.m.

1. Labour

Painter	0.50	Hrs	@	125.00	62.50
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Helper	0.50	Hrs	@	75.00	37.50
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Total					100.00
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Contractor's profit & overhead				20%	20.00
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Total					120.00
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Total Labour rate					12.00
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12.00

2. Material

Caustic soda	0.15	Kg.	@	70.00	10.50
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Sand paper	1.00	No.	@	20.00	20.00
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Hessian cloth				15%	4.58
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					35.08
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3. Sundries				2.5%	2.50
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Total of 2 & 3					37.58
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Contractor's profit & overhead				20%	7.52
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Total					45.09
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Total Composite rate					16.51
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16.50

Item No. 4 - 64 - 1

Sq.m. Dismantling from any height, fiber glass sheets roofing and ridge

Labourer	0.45	Hrs	@	87.50	39.38
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Fitter	0.20	Hrs	@	87.50	17.50
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					56.88
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Contractor's profit & overhead				20%	11.38
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Total Labour rate					68.25
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68.25

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 5-1-1					
Cu.m.	Dry ramming brick/ stone ballast 1-1/2" to 2" (40mm to 50mm) gauge				
1. Labour					
Labourer	8.48	Hrs	@	87.50	742.00
Contractor's profit & overhead				20%	148.40
Total Labour rate					<u>890.40</u>
2. Material					
Brick/ Stone ballast	1.10	Cu.m.	@	515.00	566.50
Contractor's profit & overhead				20%	113.30
Total Composite rate					<u>1,570.20</u>
Item No. 5-2					
Providing and laying plain hand mixed cement concrete using brick/ Stone ballast 1-1/2" to 2" (40mm to 50mm) with approved source sand in foundation and plinth including leveling, compacting and curing.					
Cu.m. a)	1 : 3 : 6				
1. Labour					
Mason	0.71	Hrs	@	125.00	88.75
Labourer	14	Hrs	@	87.50	1236.38
Bahishtti	1.41	Hrs	@	87.50	123.38
Mistri	0.50	Hrs	@	110.00	55.00
					<u>1503.50</u>
Contractor's profit & overhead				20%	300.70
Total Labour rate					<u>1804.20</u>
2. Material					
Cement OPC	229	Kg	@	10.50	2404.50
Sand local	0.46	Cu.m.	@	882.75	406.07
Brick/ Stone ballast	0.92	Cu.m.	@	515.00	473.80
					<u>3284.37</u>
Water Charges				1.50%	49.27
					<u>3333.63</u>
Contractor's profit & overhead				20%	666.73
Total Composite rate					<u>5,804.56</u>
Cu.m. b)	1 : 4 : 8				
1. Labour					
Mason	0.71	Hrs	@	125.00	88.75
Labourer	14	Hrs	@	87.50	1236.38
Bahishtti	1.41	Hrs	@	87.50	123.38
Mistri	0.50	Hrs	@	110.00	55.00
					<u>1503.50</u>
Contractor's profit & overhead				20%	300.70
Total Labour rate					<u>1804.20</u>
2. Material					
Cement OPC	170	Kg	@	10.50	1779.75
Sand local	0.48	Cu.m.	@	882.75	423.72
Brick/ Stone ballast	0.96	Cu.m.	@	515.00	494.40
					<u>2697.87</u>
Water Charges				1.5%	40.47
					<u>2738.34</u>
Contractor's profit & overhead				20%	547.67
Total Composite rate					<u>5,090.21</u>
Cu.m. c)	1 : 5 : 10				
1. Labour					
Mason	0.71	Hrs	@	125.00	88.75
Labourer	14	Hrs	@	87.50	1236.38
Bahishtti	1.41	Hrs	@	87.50	123.38
Mistri	0.50	Hrs	@	110.00	55.00
					<u>1503.50</u>
Contractor's profit & overhead				20%	300.70

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
	Total Labour rate			1804.20	1,804
	2. Material				
	Cement OPC	138	Kg @	10.50	1446.38
	Sand local	0.49	Cu.m. @	882.75	432.55
	Brick/ Stone ballast	0.98	Cu.m. @	515.00	504.70
					2383.62
	Water Charges			1.50%	35.75
					2419.38
	Contractor's profit & overhead			20%	483.88
	Total Composite rate				4,707.45

Cu.m. d) 1 : 6 : 12

	1. Labour				
	Mason	0.71	Hrs @	125.00	88.75
	Labourer	14	Hrs @	87.50	1236.38
	Bahishtti	1.41	Hrs @	87.50	123.38
	Mistri	0.50	Hrs @	110.00	55.00
					1503.50
	Contractor's profit & overhead			20%	300.70
	Total Labour rate				1804.20
	2. Material				
	Cement OPC	117.8	Kg @	10.50	1236.80
	Sand local	0.49	Cu.m. @	882.75	432.55
	Brick/ Stone ballast	0.98	Cu.m. @	515.00	504.70
					2174.04
	Water Charges			1.50%	32.61
					2206.65
	Contractor's profit & overhead			20%	441.33
	Total Composite rate				4,452.18

Item No. 5-3

Extra labour charges on item No. 5-2 above for sedimentation tank or filter beds of Public Health engineering works

a) In bed

	1. Labour				
	Mason	1.70	Hrs @	125	212.50
	Labourer	2.83	Hrs @	88	247.63
	Bahishtti	0.28	Hrs @	88	24.50
					484.63
	Contractor's profit & overhead			20%	96.93
	Total Labour rate				581.55

b) On slope

	1. Labour				
	Mason	2.83	Hrs @	125	353.75
	Labourer	3.96	Hrs @	88	346.50
	Bahishtti	0.28	Hrs @	88	24.50
					724.75
	Contractor's profit & overhead			20%	144.95
	Total Composite rate				869.70

Item No. 5-4

Providing and laying plain hand mixed cement concrete using sand approved source and crushed aggregate having maximum size upto 1-1/2" (38mm) & down gauge in foundation and plinth including leveling, compacting & curing.

Cu.m. a) 1 : 3 : 6

	1. Labour				
	Mason	0.71	Hrs @	125	88.75
	Labourer	14	Hrs @	88	1236.38
	Bahishtti	1.41	Hrs @	88	123.38
	Mistri	0.50	Hrs @	110	55.00
					1503.50
	Contractor's profit & overhead			20%	300.70

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate			1804.20	1,804
	2. Material				
	Cement OPC	230	Kg @	10.50	2410.59
	Sand local	0.46	Cu.m. @	882.75	406.07
	Crush 1-1/2" & down gauge	0.92	Cu.m. @	927	852.84
					3669.50
	Water Charges			1.50%	55.04
					3724.54
	Contractor's profit & overhead			20%	744.91
	Total Composite rate				6,273.64
Cu.m. b)	1 : 4 : 8				
	1. Labour				
	Mason	0.71	Hrs @	125	88.75
	Labourer	14	Hrs @	88	1236.38
	Bahishtti	1.41	Hrs @	88	123.38
	Mistri	0.50	Hrs @	110	55.00
					1503.50
	Contractor's profit & overhead			20%	300.70
	Total Labour rate				1804.20
					1,804
	2. Material				
	Cement OPC	169.54	Kg @	10.50	1780.17
	Sand local	0.48	Cu.m. @	882.75	423.72
	Crush 1-1/2" & down gauge	0.96	Cu.m. @	927	889.92
					3093.81
	Water Charges			1.50%	46.41
					3140.22
	Contractor's profit & overhead			20%	628.04
	Total Composite rate				5,572.46
Cu.m. c)	1 : 5 : 10				
	1. Labour				
	Same as item 5.2(a)				1503.50
	Contractor's profit & overhead			20%	300.70
	Total Labour rate				1804.20
					1,804
	2. Material				
	Cement OPC	140.00	Kg @	10.50	1470.00
	Sand local	0.47	Cu.m. @	882.75	414.89
	Crush 1-1/2" & down gauge	0.94	Cu.m. @	927	871.38
					2756.27
	Water Charges			1.50%	41.34
					2797.62
	Contractor's profit & overhead			20%	559.52
	Total Composite rate				5,161.34
Cu.m. d)	1 : 6 : 12				
	1. Labour				
	Same as item 5.2(a)				1503.50
	Contractor's profit & overhead			20%	300.70
	Total Labour rate				1804.20
					1,804
	2. Material				
	Cement OPC	110.00	Kg @	10.50	1155.00
	Sand local	0.47	Cu.m. @	882.75	414.89
	Crush 1-1/2" & down gauge	0.95	Cu.m. @	927	880.65
					2450.54
	Water Charges			1.5%	36.76
					2487.30
	Contractor's profit & overhead			20%	497.46
	Total Composite rate				4,788.96

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 5-5					
Providing and laying plain machine mixed cement concrete using coarse sand and crushed aggregate having maximum size upto 1-1/2" (38mm) & down gauge in foundation including levelling, compacting and curing.					
Cu.m. a) 1 : 2 : 4					
1. Labour					
Mason	2.83	Hrs	@	125	353.75
Labourer	16.95	Hrs	@	88	1483.13
Bahishtti	1.70	Hrs	@	88	148.75
Mistri	0.25	Hrs	@	110	27.50
					<u>2013.13</u>
Contractor's profit & overhead				20%	402.63
Total Labour rate					<u>2415.75</u> 2,416
2. Material					
Cement OPC	310.82	Kg	@	10.50	3263.61
Approved Coarse Sand	0.44	Cu.m.	@	1059.30	466.09
Crush 1-1/2" & down gauge	0.88	Cu.m.	@	927	815.76
					<u>4545.46</u>
Water Charges				1.50%	68.18
					<u>4613.64</u>
3. Plant and equipment					
Concrete mixer with operator - 5 Cu.ft.	0.50	Hrs	@	253	126.50
Vibrator including operator	0.50	Hrs	@	175	87.50
					<u>214.00</u>
Total of 2 and 3					4827.64
Contractor's profit & overhead				20%	965.53
Total Composite rate					<u>8,208.92</u> 8,209
Cu.m. b) 1 : 3 : 6					
1. Labour					
Mason	2.83	Hrs	@	125	353.75
Labourer	16.95	Hrs	@	88	1483.13
Bahishtti	1.70	Hrs	@	88	148.75
Mistri	0.25	Hrs	@	110	27.50
					<u>2013.13</u>
Contractor's profit & overhead				20%	402.63
Total Labour rate					<u>2415.75</u> 2,416
2. Material					
Cement OPC	230	Kg	@	10.50	2415.00
Approved Coarse Sand	0.46	Cu.m.	@	1059.30	487.28
Crush 1-1/2" & down gauge	0.92	Cu.m.	@	927	852.84
					<u>3755.12</u>
Water charges				1.5%	56.33
					<u>3811.44</u>
3. Plant and Equipment					
Concrete mixer with operator - 5 Cu.ft.	0.50	Hrs	@	253	126.50
Vibrator including operator	0.50	Hrs	@	175	87.50
					<u>214.00</u>
Total of 2 and 3					4025.44
Contractor's profit & overhead				20%	805.09
Total Composite rate					<u>7,246.28</u> 7,246
Cu.m. c) 1 : 4 : 8					
1. Labour					
Mason	2.83	Hrs	@	125	353.75
Labourer	16.95	Hrs	@	88	1483.13
Bahishtti	1.70	Hrs	@	88	148.75
Mistri	0.25	Hrs	@	110	27.50
					<u>2013.13</u>
Contractor's profit & overhead				20%	402.63
Total Labour rate					<u>2415.75</u> 2,416
2. Material					
Cement OPC	169.5	Kg	@	10.50	1780.17

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
	Approved Coarse Sand	0.48	Cu.m.	@	1059.30	508.46
	Crush 1-1/2" & down gauge	0.96	Cu.m.	@	927	889.92
						3178.55
	Water charges				1.5%	47.68
						3226.23
	3. Plant and Equipment					
	Concrete mixer with operator - 5 Cu.ft.	0.50	Hrs	@	253	126.50
	Vibrator including operator	0.50	Hrs	@	175	87.50
						214.00
	Total of 2 and 3					3440.23
	Contractor's profit & overhead				20%	688.05
	Total Composite rate					6,544.03
						6,544

Cu.m. d) 1 : 5 : 10

	1. Labour					
	Mason	2.83	Hrs	@	125	353.75
	Labourer	16.95	Hrs	@	88	1483.13
	Bahishtti	1.70	Hrs	@	88	148.75
	Mistri	0.25	Hrs	@	110	27.50
						2013.13
	Contractor's profit & overhead				20%	402.63
	Total Labour rate					2415.75
						2,416
	2. Material					
	Cement OPC	140	Kg	@	10.50	1470.00
	Approved Coarse Sand	0.47	Cu.m.	@	1059.30	497.87
	Crush 1-1/2" & down gauge	0.94	Cu.m.	@	927	871.38
						2839.25
	Water Charges				1.50%	42.59
						2881.84
	3. Plant and Equipment					
	Same as item 5-5(a) 3					214.00
	Total of 2 and 3					3095.84
	Contractor's profit & overhead				20%	619.17
	Total Composite rate					6,130.76
						6,131

Cu.m. e) 1 : 6 : 12

	1. Labour					
	Mason	2.83	Hrs	@	125	353.75
	Labourer	16.95	Hrs	@	88	1483.13
	Bahishtti	1.70	Hrs	@	88	148.75
	Mistri	0.25	Hrs	@	110	27.50
						2013.13
	Contractor's profit & overhead				20%	402.63
	Total Labour rate					2415.75
						2,416
	2. Material					
	Cement OPC	110	Kg	@	10.50	1155.00
	Approved Coarse Sand	0.47	Cu.m.	@	1059.30	497.87
	Crush 1-1/2" & down gauge	0.95	Cu.m.	@	927	880.65
						2533.52
	Water charges				1.5%	38.00
						2571.52
	3. Plant and Equipment					
	Same as item 5-5(a) 3					214.00
	Total of 2 and 3					2785.52
	Contractor's profit & overhead				20%	557.10
	Total Composite rate					5,758.38
						5,758

Item No. 5-6-1

Cu.m. Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in sills and Bed Plate including formwork and its removal, compacting and curing

	1. Labour					
	Same as item 5.13(a)					1292.38
	Contractor's profit & overhead				20%	258.48

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
Total Labour rate		1550.85			1,551
2. Material					
Same as item 5-8 c		4971.92			
3. Plant and Equipment					
Same as item 5-5(a)		214.00			
4. Shuttering					
Taking slab 4.5m x 3.5m,					
Surface area:	Sides = 2 x 14.76 x 0.375	11.07			
	Sides = 2 x 11.48 x 0.375	8.61			
		19.68			
			Sq.ft.		
For one Cu.M	189.12 x 35.31 / (0.375*169.44)	10.94	@	25.00	273.41
Total of 2, 3, & 4					5459.33
Contractor's profit & overhead				20%	1,091.87
Total Composite rate					8,102.05
					8,102
Item No. 5-7					
Deduct for item 5-5 above if Local approved fine sand is used instead of approved coarse sand					
Approved Coarse Sand	1.00	Cu.m.	@	1059.30	1059
Sand local	1.00	Cu.m.	@	883	883
Difference in rate					177
Water charges				1.5%	2.65
					179.20
Contractor's profit & overhead				20%	35.84
Total extra rate					215.04
Cu.m. a) 1 : 2 : 4					
Deduction	0.43	Cu.m.	@	215.04	92.47
					92
Cu.m. b) 1 : 3 : 6					
Deduction	0.45	Cu.m.	@	215.04	96.77
					97
Cu.m. c) 1 : 4 : 8					
Deduction	0.46	Cu.m.	@	215.04	98.92
					99
Cu.m. d) 1 : 5 : 10					
Deduction	0.47	Cu.m.	@	215.04	101.07
					101
Cu.m. e) 1 : 6 : 12					
Deduction	0.48	Cu.m.	@	215.04	103.22
					103
Item No. 5-8					
Providing and laying cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) & down gauge in foundation including leveling, compacting and curing.					
Cu.m. a) 1 : 1 : 2					
1. Labour					
Mason	2.83	Hrs	@	125	353.75
Labourer	16.95	Hrs	@	88	1483.13
Bahishti	1.70	Hrs	@	88	148.75
Mistri	0.25	Hrs	@	110	27.50
					2013.13
Contractor's profit & overhead				20%	402.63
Total Labour rate					2415.75
					2,416
2. Material					
Cement OPC	0.56	M.Ton	@	10500	5838.00
Approved Coarse Sand	0.39	Cu.m.	@	1059.30	413.13
Crush 3/4" & down gauge	0.78	Cu.m.	@	1421	1108.69
					7359.82
Water charges				1.5%	110.40
					7470.22
3. Plant and equipment					
Same as item 5-5(a)3					214
Total of 2 and 3					7684.22
Contractor's profit & overhead				20%	1,536.84
Total Composite rate					11,636.81
					11,637

Unit	Description					Component Cost	Unit Rate	
						(Rs)	(Rs)	
Cu.m. b)	1 : 1.5 : 3							
	1. Labour							
	Mason	2.83	Hrs	@	125	353.75		
	Labourer	16.95	Hrs	@	88	1483.13		
	Bahishtti	1.70	Hrs	@	88	148.75		
	Mistri	0.25	Hrs	@	110	27.50		
							2013.13	
	Contractor's profit & overhead					20%	402.63	
	Total Labour rate						2415.75	2,416
	2. Material							
	Cement OPC	0.40	M.Ton	@	10500	4168.50		
	Approved Coarse Sand	0.42	Cu.m.	@	1059.30	444.91		
	Crush 3/4" & down gauge	0.84	Cu.m.	@	1421	1193.98		
							5807.38	
	Water charges					1.5%	87.11	
							5894.49	
	3. Plant and equipment							
	Same as item 5-5(a)3						214.00	
	Total of 2 and 3						6108.49	
	Contractor's profit & overhead					20%	1,221.70	
	Total Composite rate						9,745.94	9,746
Cu.m. c)	1 : 2 : 4							
	1. Labour							
	Mason	2.83	Hrs	@	125	353.75		
	Labourer	16.95	Hrs	@	88	1483.13		
	Bahishtti	1.70	Hrs	@	88	148.75		
	Mistri	0.25	Hrs	@	110	27.50		
							2013.13	
	Contractor's profit & overhead					20%	402.63	
	Total Labour rate						2415.75	2,416
	2. Material							
	Cement OPC	0.31	M.Ton	@	10500	3255.00		
	Approved Coarse Sand	0.44	Cu.m.	@	1059.30	466.09		
	Crush 3/4" & down gauge	0.88	Cu.m.	@	1421	1250.83		
							4971.92	
	Water charges					1.5%	74.58	
							5046.50	
	3. Plant and equipment							
	Same as item 5-5(a)3						214.00	
	Total of 2 and 3						5260.50	
	Contractor's profit & overhead					20%	1,052.10	
	Total Composite rate						8,728.35	8,728
Cu.m. d)	1 : 3 : 6							
	1. Labour							
	Mason	2.83	Hrs	@	125	353.75		
	Labourer	16.95	Hrs	@	88	1483.13		
	Bahishtti	1.70	Hrs	@	88	148.75		
	Mistri	0.25	Hrs	@	110	27.50		
							2013.13	
	Contractor's profit & overhead					20%	402.63	
	Total Labour rate						2415.75	2,416
	2. Material							
	Cement OPC	0.24	M.Ton	@	10500	2520.00		
	Approved Coarse Sand	0.46	Cu.m.	@	1059.30	487.28		
	Crush 3/4" & down gauge	0.92	Cu.m.	@	1421	1307.69		
							4314.97	
	Water charges					1.5%	64.72	
							4379.69	
	3. Plant and equipment							
	Same as item 5-5(a)3						214.00	
	Total of 2 and 3						4593.69	
	Contractor's profit & overhead					20%	918.74	
	Total Composite rate						7,928.18	7,928

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Cu.m. e) 1 : 4 : 8					
1. Labour					
Mason	2.83	Hrs	@	125	353.75
Labourer	16.95	Hrs	@	88	1483.13
Bahishti	1.70	Hrs	@	88	148.75
Mistri	0.25	Hrs	@	110	27.50
					2013.13
Contractor's profit & overhead				20%	402.63
Total Labour rate					2415.75
					2,416
2. Material					
Cement OPC	0.17	M.Ton	@	10500	1780.17
Approved Coarse Sand	0.47	Cu.m.	@	1059.30	497.87
Crush 3/4" & down gauge	0.95	Cu.m.	@	1421	1350.33
					3628.37
Water charges				1.5%	54.43
					3682.80
3. Plant and equipment					
Same as item 5-5(a)3					214.00
Total of 2 and 3					3896.80
Contractor's profit & overhead				20%	779.36
Total Composite rate					7,091.91
					7,092
Item No. 5-9-1					
R.M.	Providing and laying 3" x 3" (75mm x 75mm) cement concrete 1:2:4 gola using crushed aggregate at junction of roof slab and wall and finished with 1/4" (6.4mm) thick cement plaster 1:4 including curing.				
Detail of cost for 100 R.ft.					
Material					
Cement concrete 1:2:4	3/12x3/12x100	6.25	Cu.ft		
Wastage 10%		0.63	Cu.ft		
		6.88	Cu.ft	=	0.19 Cu.m.
Cement plaster 1:4	100x9/12	75.00	Sq.m.	=	6.97 Sq.m.
1. Labour					
Mason	4.00	Hrs	@	125.00	500.00
Labourer	4.00	Hrs	@	87.50	350.00
					850.00
Contractor's profit & overhead				20%	170.00
Total Labour rate					33.47
					33
2. Material					
Concrete 1:2:4	Rate as per item 5-	0.18	Cu.m.	@	8338.90
Plaster 1: 4	As per item 15-1(c)3	5.00	Sq.m.	@	369.65
Total					1,481.82
					1,848.24
					3,330.07
Contractor's profit & overhead				20%	666.01
Total Composite rate					164.58
					165
Item No. 5-10					
	Deduct for item 5-8 above if Local sand approved source is used instead of approved coarse sand.				
Approved Coarse Sand	1.00	Cu.m.	@	1059	1059.30
Sand local	1.00	Cu.m.	@	883	882.75
Difference in rate					176.55
Water charges				1.5%	2.65
					179.20
Contractor's profit & overhead				20%	35.84
Total extra rate					215.04
Cu.m. a) 1 : 1 : 2					
Approved Coarse Sand	0.39	Cu.m.	@	215.04	83.86
					84

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
Cu.m. b) 1 : 1.5 : 3	Approved Coarse Sand	0.42	Cu.m.	@	215.04	90.32	90
Cu.m. c) 1 : 2 : 4	Approved Coarse Sand	0.44	Cu.m.	@	215.04	94.62	95
Cu.m. d) 1 : 3 : 6	Approved Coarse Sand	0.47	Cu.m.	@	215.04	101.07	101
Cu.m. e) 1 : 4 : 8	Approved Coarse Sand	0.48	Cu.m.	@	215.04	103.22	103

Item No. 5-11

Providing and laying in situ cement concrete using approved coarse sand and crushed aggregate having maximum size upto 1-1/2" (38mm) and down gauge in foundation including formwork and its removal, compaction and curing

Cu.m. a) 1 : 2 : 4	1. Labour						
	Mason	1.50	Hrs	@	125	187.50	
	Labourer	10.00	Hrs	@	88	875.00	
	Bahishtti	3.50	Hrs	@	88	306.25	
	Mistri	0.25	Hrs	@	110	27.50	
						1396.25	
	Contractor's profit & overhead				20%	279.25	
	Total Labour rate					1675.50	1,676
	2. Material						
	Same as item 5-5(a)2					4613.64	
	3. Plant and Equipment						
	Same as item 5-5(a)3					214.00	
	4. Shuttering						
	Average wall thickness =	$(2.0+4.0)/2 = 3.0$ ft					
	formwork in Sft for one cu.m concrete with 3.0 ft wall thickness						
	$(3 \times 2 \times 2) + (3 \times 5.89 \times 2) =$	47.34					
	Charges for 3 ft thick wall	47.34	Sft	@	25.00	1183.50	
	Total of 2, 3 and 4					6011.14	
	Contractor's profit & overhead				20%	1,202.23	
	Total Composite rate					8,888.87	8,889
Cu.m. b) 1 : 3 : 6	1. Labour						
	Mason	1.50	Hrs	@	125	187.50	
	Labourer	10.00	Hrs	@	88	875.00	
	Bahishtti	3.50	Hrs	@	88	306.25	
	Mistri	0.25	Hrs	@	110	27.50	
						1396.25	
	Contractor's profit & overhead				20%	279.25	
	Total Labour rate					1675.50	1,676
	2. Material						
	Same as item 5-5(b)					3811.44	
	3. Plant and Equipment						
	Same as item 5-5(a)3					214.00	
	4. Shuttering						
	Same as item 5-11(a)					1183.50	
	Total of 2, 3 and 4					5208.94	
	Contractor's profit & overhead				20%	1,041.79	
	Total Composite rate					7,926.23	7,926
Cu.m. c) 1 : 4 : 8	1. Labour						
	Mason	1.50	Hrs	@	125	187.50	

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
	Labourer	10.00	Hrs	@	88	875.00	
	Bahishti	3.50	Hrs	@	88	306.25	
	Mistri	0.25	Hrs	@	110	27.50	
						1396.25	
	Contractor's profit & overhead				20%	279.25	
	Total Labour rate					1675.50	1,676
	2. Material						
	Same as item 5-5(c)					3226.23	
	3. Plant and Equipment						
	Same as item 5-5(a)3					214.00	
	4. Shuttering						
	Same as item 5-11(a)					1183.50	
	Total of 2, 3 and 4					4623.73	
	Contractor's profit & overhead				20%	924.75	
	Total Composite rate					7,223.98	7,224
Cu.m. d)	1 : 5 : 10						
	1. Labour						
	Mason	1.50	Hrs	@	125	187.50	
	Labourer	10.00	Hrs	@	88	875.00	
	Bahishti	3.50	Hrs	@	88	306.25	
	Mistri	0.25	Hrs	@	110	27.50	
						1396.25	
	Contractor's profit & overhead				20%	279.25	
	Total Labour rate					1675.50	1,676
	2. Material						
	Same as item 5-5(d)					2881.84	
	3. Plant and Equipment						
	Same as item 5-5(a)3					214.00	
	4. Shuttering						
	Same as item 5-11(a)					1183.50	
	Total of 2, 3 and 4					4279.34	
	Contractor's profit & overhead				20%	855.87	
	Total Composite rate					6,810.71	6,811
Cu.m. e)	1 : 6 : 12						
	1. Labour						
	Mason	1.50	Hrs	@	125	187.50	
	Labourer	10.00	Hrs	@	88	875.00	
	Bahishti	3.50	Hrs	@	88	306.25	
	Mistri	0.25	Hrs	@	110	27.50	
						1396.25	
	Contractor's profit & overhead				20%	279.25	
	Total Labour rate					1675.50	1,676
	2. Material						
	Same as item 5-5(e)					2571.52	
	3. Plant and Equipment						
	Same as item 5-5(a)3					214.00	
	4. Shuttering						
	Same as item 5-11(a)					1183.50	
	Total of 2, 3 and 4					3969.02	
	Contractor's profit & overhead				20%	793.80	
	Total Composite rate					6,438.33	6,438

Item No. 5-12

Providing and laying in situ cement concrete using approved coarse sand and crushed aggregate having maximum size upto 3/4" (19mm) and down gauge in foundation including formwork using wooden braces and without wall ties, compaction, curing and removal of formwork

Cu.m. a) 1 : 2 : 4

1. Labour

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Mason	1.50 Hrs @	125	187.50		
Labourer	10.00 Hrs @	88	875.00		
Bahishti	3.50 Hrs @	88	306.25		
Mistri	0.25 Hrs @	110	27.50		
			<u>1396.25</u>		
Contractor's profit & overhead		20%	279.25		
Total Labour rate			<u>1675.50</u>		1,676
2. Material					
Same as item 5-8(c)			4971.92		
3. Plant and Equipment					
Same as item 5-5(a)3			214.00		
4. Shuttering					
Same as item 5-11(a)			1183.50		
Total of 2, 3 and 4			<u>6369.42</u>		
Contractor's profit & overhead		20%	1,273.88		
Total Composite rate			<u>9,318.81</u>		9,319
Cu.m. b) 1 : 3 : 6					
1. Labour					
Mason	1.50 Hrs @	125	187.50		
Labourer	10.00 Hrs @	88	875.00		
Bahishti	3.50 Hrs @	88	306.25		
Mistri	0.25 Hrs @	110	27.50		
			<u>1396.25</u>		
Contractor's profit & overhead		20%	279.25		
Total Labour rate			<u>1675.50</u>		1,676
2. Material					
Same as item 5-8(d)			4379.69		
3. Plant and Equipment					
Same as item 5-5(a)3			214.00		
4. Shuttering					
Same as item 5-11(a)			1183.50		
Total of 2, 3 and 4			<u>5777.19</u>		
Contractor's profit & overhead		20%	1,155.44		
Total Composite rate			<u>8,608.13</u>		8,608
Cu.m. c) 1 : 4 : 8					
1. Labour					
Mason	1.50 Hrs @	125	187.50		
Labourer	10.00 Hrs @	88	875.00		
Bahishti	3.50 Hrs @	88	306.25		
Mistri	0.25 Hrs @	110	27.50		
			<u>1396.25</u>		
Contractor's profit & overhead		20%	279.25		
Total Labour rate			<u>1675.50</u>		1,676
2. Material					
Same as item 5-8(e)			4971.92		
3. Plant and Equipment					
Same as item 5-5(a)3			214.00		
4. Shuttering					
Same as item 5-11(a)			1183.50		
Total of 2, 3 and 4			<u>6369.42</u>		
Contractor's profit & overhead		20%	1,273.88		
Total Composite rate			<u>9,318.81</u>		9,319
Cu.m. d) 1 : 5 : 10					
1. Labour					
Mason	1.50 Hrs @	125	187.50		
Labourer	10.00 Hrs @	88	875.00		
Bahishti	3.50 Hrs @	88	306.25		
Mistri	0.25 Hrs @	110	27.50		
			<u>1396.25</u>		
Contractor's profit & overhead		20%	279.25		

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		1675.50		1,676
	2. Material				
	Cement OPC	0.14	M.Ton	@ 10500	1470.00
	Approved Coarse Sand	0.48	Cu.m.	@ 1059	508.46
	Crush 3/4" & down gauge	0.96	Cu.m.	@ 1421	1364.54
					3343.01
	Water charges			1.5%	50.15
					3393.15
	3. Plant and Equipment				
	Same as item 5-5(a)3				214.00
	4. Shuttering				
	Same as item 5-11(a)				1183.50
	Total of 2, 3 and 4				4790.65
	Contractor's profit & overhead			20%	958.13
	Total Composite rate				7,424.28

Cu.m. e) 1 : 6 : 12

	1. Labour				
	Mason	1.50	Hrs	@ 125	187.50
	Labourer	10.00	Hrs	@ 88	875.00
	Bahishti	3.50	Hrs	@ 88	306.25
	Mistri	0.25	Hrs	@ 110	27.50
					1396.25
	Contractor's profit & overhead			20%	279.25
	Total Labour rate				1675.50
	2. Material				
	Cement OPC	0.12	M.Ton	@ 10500	1260.00
	Approved Coarse Sand	0.49	Cu.m.	@ 1059.30	519.06
	Crush 3/4" & down gauge	0.97	Cu.m.	@ 1421	1378.76
					3157.82
	Water charges			1.5%	47.37
					3205.18
	3. Plant and Equipment				
	Same as item 5-5(a)3				214.00
	4. Shuttering				
	Same as item 5-11(a)				1183.50
	Total of 2, 3 and 4				4602.68
	Contractor's profit & overhead			20%	920.54
	Total Composite rate				7,198.72

Item No. 5-13

Providing & laying in situ cement concrete in wall and piers etc, upto 12" (300 mm) in thickness using approved coarse sand & crushed aggregate 3/4" (19mm) & down gauge including compacting, curing, cost of formwork and its removal in basement and ground floor

Cu.m. a) 1 : 1 : 2

	1. Labour				
	Mason	1.50	Hrs	@ 125	187.50
	Labourer	8.00	Hrs	@ 88	700.00
	Bahishti	4.25	Hrs	@ 88	371.88
	Mistri	0.30	Hrs	@ 110	33.00
					1292.38
	Contractor's profit & overhead			20%	258.48
	Total Labour rate				1550.85
	2. Material				
	Same as item 5-8(a)2				7470.22
	3. Plant and Equipment				
	Same as item 5-5(a)				214.00
	4. Shuttering				
	Taking average wall thickness as $(0.75+1.25)/2 = 12"$				
	Total Shuttering on both sides of wall in sft $(35.31 \times 2/1) =$	70.62	Sft	@ 25.00	1765.50
	5. Scaffolding	70.62	Sft	@ 5.00	353.10
	Total of 2, 3, 4 & 5				9802.82
	Contractor's profit & overhead			20%	1,960.56

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Composite rate	13,314.23	13,314
Cu.m. b) 1 : 1.5 : 3			
1. Labour			
Mason	1.50 Hrs @	125	187.50
Labourer	8.00 Hrs @	88	700.00
Bahishhti	4.25 Hrs @	88	371.88
Mistri	0.30 Hrs @	110	33.00
			<u>1292.38</u>
Contractor's profit & overhead		20%	258.48
Total Labour rate			<u>1550.85</u> 1,551
2. Material			
Same as item 5-8(b)			5894.49
3. Plant and Equipment			
Same as item 5-5(a)			214.00
4. Shuttering			
Same as item 5-13(a)			1765.50
5. Scaffolding			
Same as item 5-13(a)			353.10
Total of 2, 3, 4 & 5			<u>8227.09</u>
Contractor's profit & overhead		20%	1,645.42
Total Composite rate			<u>11,423.36</u> 11,423
Cu.m. c) 1 : 2 : 4			
1. Labour			
Mason	1.50 Hrs @	125	187.50
Labourer	8.00 Hrs @	88	700.00
Bahishhti	4.25 Hrs @	88	371.88
Mistri	0.30 Hrs @	110	33.00
			<u>1292.38</u>
Contractor's profit & overhead		20%	258.48
Total Labour rate			<u>1550.85</u> 1,551
2. Material			
Same as item 5-8(c)			4971.92
3. Plant and Equipment			
Same as item 5-5(a)			214.00
4. Shuttering			
Same as item 5-13(a)			1765.50
5. Scaffolding			
Same as item 5-13(a)			353.10
Total of 2, 3, 4 & 5			<u>7304.52</u>
Contractor's profit & overhead		20%	1,460.90
Total Composite rate			<u>10,316.28</u> 10,316
Cu.m. d) 1 : 3 : 6			
1. Labour			
Mason	1.50 Hrs @	125	187.50
Labourer	8.00 Hrs @	88	700.00
Bahishhti	4.25 Hrs @	88	371.88
Mistri	0.30 Hrs @	110	33.00
			<u>1292.38</u>
Contractor's profit & overhead		20%	258.48
Total Labour rate			<u>1550.85</u> 1,551
2. Material			
Same as item 5-8(d)			4379.69
3. Plant and Equipment			
Same as item 5-5(a)			214.00
4. Shuttering			
Same as item 5-13(a)			1765.50
5. Scaffolding			
Same as item 5-13(a)			353.10
Total of 2, 3, 4 & 5			<u>6712.29</u>
Contractor's profit & overhead		20%	1,342.46
Total Composite rate			<u>9,605.60</u> 9,606

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Cu.m. e) 1 : 4 : 8					
1. Labour					
Mason	1.50 Hrs @	125	187.50		
Labourer	8.00 Hrs @	88	700.00		
Bahishtti	4.25 Hrs @	88	371.88		
Mistri	0.30 Hrs @	110	33.00		
			<u>1292.38</u>		
Contractor's profit & overhead		20%	258.48		
Total Labour rate			<u>1550.85</u>		1,551
2. Material					
Same as item 5-8(e)			4379.69		
3. Plant and Equipment					
Same as item 5-5(a)			214.00		
4. Shuttering					
Same as item 5-13(a)			1765.50		
5. Scaffolding					
Same as item 5-13(a)			353.10		
Total of 2, 3, 4 & 5			<u>6712.29</u>		
Contractor's profit & overhead		20%	1,342.46		
Total Composite rate			<u>9,605.60</u>		9,606
Cu.m. f) Extra for first floor					
1. Labour					
Mason	1.65 Hrs @	125	206.25		
Labourer	8.80 Hrs @	88	770.00		
Bahishtti	4.68 Hrs @	88	409.06		
Mistri	0.33 Hrs @	110	36.30		
			<u>1421.61</u>		
Contractor's profit & overhead		20%	284.32		
Total Labour rate			<u>1705.94</u>		1,706
2. Plant and Equipment					
10% extra over item 5-5(a)			21.40		
3. Shuttering					
10% extra over item 5-13(a)			176.55		
4. Scaffolding					
10% extra over item 5-13(a)			35.31		
Total of 2, 3, & 4			<u>233.26</u>		
Contractor's profit & overhead		20%	46.65		
Total Composite rate			<u>1,985.85</u>		1,986
Cu.m. g) Extra for every additional floor above first floor					
1. Labour					
Mason	1.61 Hrs @	125	201.56		
Labourer	8.60 Hrs @	88	752.50		
Bahishtti	4.57 Hrs @	88	399.77		
Mistri	0.32 Hrs @	110	35.48		
			<u>1389.30</u>		
Contractor's profit & overhead		20%	277.86		
Total Labour rate			<u>1667.16</u>		1,667
2. Plant and Equipment					
7.5% extra over item 5-5(a)			16.05		
3. Shuttering					
7.5% extra over item 5-13(a)			132.41		
4. Scaffolding					
7.5% extra over item 5-13(a)			26.48		
Total of 2, 3, & 4			<u>174.95</u>		
Contractor's profit & overhead		20%	34.99		
Total Composite rate			<u>1,877.10</u>		1,877
Item No. 5-14					
Same as in Item 5 - 7 but in walls and piers above 12" (300mm) in thickness.					
Cu.m. a) 1 : 1 : 2					

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Mason	1.50 Hrs @	125	187.50		
Labourer	8.00 Hrs @	88	700.00		
Bahishti	4.25 Hrs @	88	371.88		
Mistri	0.30 Hrs @	110	33.00		
			1292.38		
Contractor's profit & overhead		20%	258.48		
Total Labour rate			1550.85		1,551
2. Material					
Same as item 5-8(a)			7470.22		
3. Plant and Equipment					
Same as item 5-5(a)			214.00		
4. Shuttering					
Taking average wall thickness as $(1+1.5)/2 = 1.5$ "					
Total Shuttering on both sides of wall in sft (35.31x2/1.25) =		56.50 Sft @	25.00	1412.40	
5. Scaffolding		56.50 Sft @	5.00	282.48	
Total of 2, 3, 4 & 5				9379.10	
Contractor's profit & overhead		20%	1,875.82		
Total Composite rate			12,805.77		12,806
Cu.m. b) 1 : 1.5 : 3					
1. Labour					
Mason	1.50 Hrs @	125	187.50		
Labourer	8.00 Hrs @	88	700.00		
Bahishti	4.25 Hrs @	88	371.88		
Mistri	0.30 Hrs @	110	33.00		
			1292.38		
Contractor's profit & overhead		20%	258.48		
Total Labour rate			1550.85		1,551
2. Material					
Same as item 5-8(b)			5894.49		
3. Plant and Equipment					
Same as item 5-5(a)			214.00		
4. Shuttering					
Same as item 5.14(a)			1412.40		
5. Scaffolding					
Same as item 5.14(a)			282.48		
Total of 2, 3, 4 & 5			7803.37		
Contractor's profit & overhead		20%	1,560.67		
Total Composite rate			10,914.90		10,915
Cu.m. c) 1 : 2 : 4					
1. Labour					
Mason	1.50 Hrs @	125	187.50		
Labourer	8.00 Hrs @	88	700.00		
Bahishti	4.25 Hrs @	88	371.88		
Mistri	0.30 Hrs @	110	33.00		
			1292.38		
Contractor's profit & overhead		20%	258.48		
Total Labour rate			1550.85		1,551
2. Material					
Same as item 5-8(c)			4971.92		
3. Plant and Equipment					
Same as item 5-5(a)			214.00		
4. Shuttering					
Same as item 5.14(a)			1412.40		
5. Scaffolding					
Same as item 5.14(a)			282.48		
Total of 2, 3, 4 & 5			6880.80		
Contractor's profit & overhead		20%	1,376.16		
Total Composite rate			9,807.81		9,808
Cu.m. d) 1 : 3 : 6					
1. Labour					

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Same as item 5.13(a)		1292.38	
	Contractor's profit & overhead	20%	258.48	
	Total Labour rate		1550.85	1,551
	2. Material			
	Same as item 5-8(d)		4379.69	
	3. Plant and Equipment			
	Same as item 5-5(a)		214.00	
	4. Shuttering			
	Same as item 5.14(a)		1412.40	
	5. Scaffolding			
	Same as item 5.14(a)		282.48	
	Total of 2, 3, 4 & 5		6288.57	
	Contractor's profit & overhead	20%	1,257.71	
	Total Composite rate		9,097.13	9,097
Cu.m. e)	1 : 4 : 8			
	1. Labour			
	Same as item 5.13(a)		1292.38	
	Contractor's profit & overhead	20%	258.48	
	Total Labour rate		1550.85	1,551
	2. Material			
	Same as item 5-8(e)		4379.69	
	3. Plant and Equipment			
	Same as item 5-5(a)		214.00	
	4. Shuttering			
	Same as item 5.14(a)		1412.40	
	5. Scaffolding			
	Same as item 5.14(a)		282.48	
	Total of 2, 3, 4 & 5		6288.57	
	Contractor's profit & overhead	20%	1,257.71	
	Total Composite rate		9,097.13	9,097
Cu.m. f)	Extra for first floor			
	1. Labour			
	10% extra over item 5-13(a)		129.24	
	Contractor's profit & overhead	20%	25.85	
	Total Labour rate		155.09	155
	2. Plant and Equipment			
	10% extra over item 5-5(a)		21.40	
	3. Shuttering			
	10% extra over item 5-14(a)		141.24	
	4. Scaffolding			
	10% extra over item 5-14(a)		28.25	
	Total of 2, 3, & 4		190.89	
	Contractor's profit & overhead	20%	38.18	
	Total Composite rate		384.15	384
Cu.m. g)	Extra for every additional floor above first floor			
	1. Labour			
	7.5% extra over item 5-13(a)		96.93	
	Contractor's profit & overhead	20%	19.39	
	Total Labour rate		116.31	116
	2. Plant and Equipment			
	7.5% extra over item 5-5(a)		16.05	
	3. Shuttering			
	7.5% extra over item 5-14(a)		105.93	
	4. Scaffolding			
	7.5% extra over item 5-14(a)		21.19	
	Total of 2, 3, & 4		143.17	
	Contractor's profit & overhead	20%	28.63	
	Total Composite rate		288.11	288

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Item No. 5-15			
Providing and laying in situ cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in pillars and columns of any shape in super structure including compacting, curing, cost of form-work & its removal in basement and ground floor.			
Cu.m. a)	1 : 1 : 2		
	1. Labour Same as item 5.13(a)		1292.38
	Contractor's profit & overhead	20%	258.48
	Total Labour rate		<u>1550.85</u> 1,551
	2. Material Same as item 5-8(a)		7470.22
	3. Plant and Equipment Same as item 5-5(a)		214.00
	4. Shuttering Column Surface area: $2 \times 2 \times 17.65 = 70.60$ $2 \times 1 \times 17.65 = 35.30$		<u>105.90</u>
		Sft @ 25.00	2647.50
	5. Scaffolding Rate of scaffolding for columns, using one grid Surface area <u>105.90</u>	Sft @ 5.00	529.50
	Total of 2, 3, 4 & 5		10861.22
	Contractor's profit & overhead	20%	2,172.24
	Total Composite rate		<u>14,584.31</u> 14,584
Cu.m. b)	1 : 1.5 : 3		
	1. Labour Same as item 5.13(a)		1292.38
	Contractor's profit & overhead	20%	258.48
	Total Labour rate		<u>1550.85</u> 1,551
	2. Material Same as item 5-8(b)		5894.49
	3. Plant and Equipment Same as item 5-5(a)		214.00
	4. Shuttering Same as item 5-15(a)		2647.50
	5. Scaffolding Same as item 5-15(a)		<u>529.50</u>
	Total of 2, 3, 4 & 5		9285.49
	Contractor's profit & overhead	20%	1,857.10
	Total Composite rate		<u>12,693.44</u> 12,693
Cu.m. c)	1 : 2 : 4		
	1. Labour Same as item 5.13(a)		1292.38
	Contractor's profit & overhead	20%	258.48
	Total Labour rate		<u>1550.85</u> 1,551
	2. Material Same as item 5-8(c)		4971.92
	3. Plant and Equipment Same as item 5-5(a)		214.00
	4. Shuttering Same as item 5-15(a)		2647.50
	5. Scaffolding Same as item 5-15(a)		<u>529.50</u>
	Total of 2, 3, 4 & 5		8362.92
	Contractor's profit & overhead	20%	1,672.58
	Total Composite rate		<u>11,586.36</u> 11,586
Cu.m. d)	1 : 3 : 6		
	1. Labour Same as item 5.13(a)		1292.38
	Contractor's profit & overhead	20%	<u>258.48</u>

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate	1550.85	1,551
	2. Material		
	Same as item 5-8(d)	4379.69	
	3. Plant and Equipment		
	Same as item 5-5(a)	214.00	
	4. Shuttering		
	Same as item 5-15(a)	2647.50	
	5. Scaffolding		
	Same as item 5-15(a)	529.50	
	Total of 2, 3, 4 & 5	7770.69	
	Contractor's profit & overhead	20%	1,554.14
	Total Composite rate	10,875.68	10,876
Cu.m. e)	Extra for first floor		
	1. Labour		
	10% extra over item 5-13(a)	129.24	
	Contractor's profit & overhead	20%	25.85
	Total Labour rate	155.09	155
	2. Plant and Equipment		
	10% extra over item 5-5(a)	21.40	
	3. Shuttering		
	10% extra over item 5-15(a)	264.75	
	4. Scaffolding		
	10% extra over item 5-15(a)	52.95	
	Total of 2, 3, & 4	339.10	
	Contractor's profit & overhead	20%	67.82
	Total Composite rate	562.01	562
Cu.m. f)	Extra for every additional floor above first floor		
	1. Labour		
	7.5% extra over item 5-13(a)	96.93	
	Contractor's profit & overhead	20%	19.39
	Total Labour rate	116.31	116
	2. Plant and Equipment		
	7.5% extra over item 5-5(a)	16.05	
	3. Shuttering		
	7.5% extra over item 5-15(a)	198.56	
	4. Scaffolding		
	7.5% extra over item 5-15(a)	39.71	
	Total of 2, 3, & 4	254.33	
	Contractor's profit & overhead	20%	50.87
	Total Composite rate	421.50	422
Cu.m. g)	Extra for minarets of mosque		
	1. Labour		
	10% extra over item 5-13(a)	129.24	
	Contractor's profit & overhead	20%	25.85
	Total Labour rate	155.09	155
	Composite		
	Contractor's profit & overhead	20%	339.10
	Total Composite rate	562.01	562
	Item No. 5-16		
Cu.m. a)	Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in beams, lintels and cantilevers of required shape or section including formwork and its removal compacting and curing in basement and ground floor.		
	1. Labour		
	Same as item 5.13(a)	1292.38	
	Contractor's profit & overhead	20%	258.48
	Total Labour rate	1550.85	1,551

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
Same as item 5-8 c				4971.92
3. Plant and Equipment				
Same as item 5-5(a)				214.00
4. Shuttering				
Beam size 12" x 24" then length in Cu.m. = 35.31/2	Bottom = 1.0 x 17.66	17.66		
Surface area:	Sides = 2 x 2 x 17.66	70.64		
	= 2 x 2 x 2	8.00		
		96.30	@	25.00
5. Scaffolding		96.30	@	5.00
Total of 2, 3, & 4				8074.92
Contractor's profit & overhead			20%	1,614.98
Total Composite rate				11,240.76
				11,241
Cu.m. b) Extra for first floor				
1. Labour				
10% extra over item 5-13(a)				129.24
Contractor's profit & overhead			20%	25.85
Total Labour rate				155.09
2. Plant and Equipment				
10% extra over item 5-5(a)				21.40
3. Shuttering				
10% extra over item 5-16(a)				240.75
4. Scaffolding				
10% extra over item 5-16(a)				48.15
Total of 2, 3, & 4				310.30
Contractor's profit & overhead			20%	62.06
Total Composite rate				527.45
				527
Cu.m. c) Extra for every additional floor above first floor				
1. Labour				
7.5% extra over item 5-13(a)				96.93
Contractor's profit & overhead			20%	19.39
Total Labour rate				116.31
2. Plant and Equipment				
7.5% extra over item 5-5(a)				16.05
3. Shuttering				
7.5% extra over item 5-15(a)				198.56
4. Scaffolding				
7.5% extra over item 5-15(a)				39.71
Total of 2, 3, & 4				254.33
Contractor's profit & overhead			20%	50.87
Total Composite rate				421.50
				422
Item No. 5-17				
Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in slabs including formwork and its removal, compacting and curing				
a) Upto 6" (150 mm) thickness				
Cu.m. i) In basement, plinth and ground floor				
1. Labour				
Same as item 5.13(a)				1292.38
Contractor's profit & overhead			20%	258.48
Total Labour rate				1550.85
2. Material				
Same as item 5-8 c				4971.92
3. Plant and Equipment				
Same as item 5-5(a)				214.00
4. Shuttering				
Taking slab 4.5m x 3.5m,	Bottom = 14.76 x 11.48	169.44		
Contents = 14.76 x 11.48 x 0.375	Sides = 2 x 14.76 x 0.375	11.07		
Surface area:	Sides = 2 x 11.48 x 0.375	8.61		
		189.12		
For one Cu.M	189.12 x 35.31 / (0.375*169.44)	105.10	@	25.00
5. Scaffolding		105.10	@	5.00
				2627.48
				525.50

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Total of 2, 3, & 4		8338.90	
	Contractor's profit & overhead	20%	1,667.78	
	Total Composite rate		11,557.53	11,558
Cu.m. ii) Extra for first floor				
	1. Labour			
	10% extra over item 5-13(a)		129.24	
	Contractor's profit & overhead	20%	25.85	
	Total Labour rate		155.09	155
	2. Plant and Equipment			
	10% extra over item 5-5(a)		21.40	
	3. Shuttering			
	10% extra over item 5-17(a)		262.75	
	4. Scaffolding			
	10% extra over item 5-17(a)		52.55	
	Total of 2, 3, & 4		336.70	
	Contractor's profit & overhead	20%	67.34	
	Total Composite rate		559.12	559
Cu.m. iii) Extra for every additional floor above first floor				
	1. Labour			
	7.5% extra over item 5-13(a)		96.93	
	Contractor's profit & overhead	20%	19.39	
	Total Labour rate		116.31	116
	2. Plant and Equipment			
	7.5% extra over item 5-5(a)		16.05	
	3. Shuttering			
	7.5% extra over item 5-17(a)1		197.06	
	4. Scaffolding			
	7.5% extra over item 5-17(a)1		39.41	
	Total of 2, 3, & 4		252.52	
	Contractor's profit & overhead	20%	50.50	
	Total Composite rate		419.34	419
Cu.m. iv) Extra for sloping roofs for slope more than 15 degrees				
	1. Labour			
	5% extra over item 5-13(a)		64.62	
	Contractor's profit & overhead	20%	12.92	
	Total Labour rate		77.54	78
	2. Plant and Equipment			
	5% extra over item 5-5(a)		10.70	
	3. Shuttering			
	5% extra over item 5-17(a)1		131.37	
	4. Scaffolding			
	5% extra over item 5-17(a)1		26.27	
	Total of 2, 3, & 4		168.35	
	Contractor's profit & overhead	20%	33.67	
	Total Composite rate		279.56	280
b) Above 6" (150 mm) upto 12" (300 mm) thickness				
Cu.m. i) In basement, plinth and ground floor				
	1. Labour			
	Same as item 5.13(a)		1292.38	
	Contractor's profit & overhead	20%	258.48	
	Total Labour rate		1550.85	1,551
	2. Material			
	Same as item 5-8 c		4971.92	
	3. Plant and Equipment			
	Same as item 5-5(a)		214.00	
	4. Shuttering			
	Taking slab 4.5m x 3.5m, Contents			
	Bottom = 14.76 x 11.48		169.44	
	Sides = 2 x 14.76 x 0.75		22.14	
	Sides = 2 x 11.48 x 0.75		17.22	

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
	Surface area:	208.80		Sq.ft.	
	For one Cu.m.	77.56	@	25.00	1938.96
	5. Scaffolding	77.56	@	5.00	387.79
	Total of 2, 3, & 4				7512.68
	Contractor's profit & overhead			20%	1,502.54
	Total Composite rate				10,566.06
					10,566
Cu.m. ii)	Extra for first floor				
	1. Labour				
	10% extra over item 5-13(a)				129.24
	Contractor's profit & overhead			20%	25.85
	Total Labour rate				155.09
					155
	2. Plant and Equipment				
	10% extra over item 5-5(a)				21.40
	3. Shuttering				
	10% extra over item 5-17(b)				193.90
	4. Scaffolding				
	10% extra over item 5-17(b)				38.78
	Total of 2, 3, & 4				254.08
	Contractor's profit & overhead			20%	50.82
	Total Composite rate				459.98
					460
Cu.m. iii)	Extra for every additional floor above first floor				
	1. Labour				
	7.5% extra over item 5-13(a)				96.93
	Contractor's profit & overhead			20%	19.39
	Total Labour rate				116.31
					116
	2. Plant and Equipment				
	7.5% extra over item 5-5(a)				16.05
	3. Shuttering				
	7.5% extra over item 5-17(b)1				145.42
	4. Scaffolding				
	7.5% extra over item 5-17(b)1				29.08
	Total of 2, 3, & 4				190.56
	Contractor's profit & overhead			20%	38.11
	Total Composite rate				344.98
					345
Cu.m. iv)	Extra for sloping roofs for slope more than 15 degrees				
	1. Labour				
	5% extra over item 5-13(a)				64.62
	Contractor's profit & overhead			20%	12.92
	Total Labour rate				77.54
					78
	2. Plant and Equipment				
	5% extra over item 5-5(a)				11.77
	3. Shuttering				
	5% extra over item 5-17(b)1				96.95
	4. Scaffolding				
	5% extra over item 5-17(b)1				19.39
	Total of 2, 3, & 4				128.11
	Contractor's profit & overhead			20%	25.62
	Total Composite rate				231.27
					231
c)	Above 12" (300 mm) thickness				
Cu.m. i)	In basement, plinth and ground floor				
	1. Labour				
	Same as item 5.13(a)				1292.38
	Contractor's profit & overhead			20%	258.48
	Total Labour rate				1550.85
					1,551
	2. Material				
	Same as item 5-8 (c)				4971.92
	3. Plant and Equipment				

Unit	Description	Component Cost		Unit Rate
		(Rs)		(Rs)
	Same as item 5-5(a)			214.00
	4. Shuttering			
	Taking slab 4.5m x 3.5m,	Bottom = 14.76 x 11.48	169.44	
	Contents = 14.76 x 11.48 x 1.25	Sides = 2 x 14.76 x 1.25	36.90	
	Surface area:	Sides = 2 x 11.48 x 1.25	28.70	
			<u>235.04</u>	Sq.ft.
	For one Cu.m.	235.04 x 35.31 / (1.25x211.806)	31.35	@ 25.00 783.68
	5. Scaffolding		31.35	@ 25.00 783.68
	Total of 2, 3, & 4			6753.29
	Contractor's profit & overhead			20% 1,350.66
	Total Composite rate			<u>9,654.80</u> 9,655

Cu.m. ii) Extra for first floor

	1. Labour			
	10% extra over item 5-13(a)			129.24
	Contractor's profit & overhead		20%	25.85
	Total Labour rate			<u>155.09</u> 155
	2. Plant and Equipment			
	10% extra over item 5-5(a)			21.40
	3. Shuttering			
	10% extra over item 5-17(c)			78.37
	4. Scaffolding			
	10% extra over item 5-17(c)			78.37
	Total of 2, 3, & 4			<u>178.14</u>
	Contractor's profit & overhead		20%	35.63
	Total Composite rate			<u>368.85</u> 369

Cu.m. iii) Extra for every additional floor above first floor

	1. Labour			
	7.5% extra over item 5-13(a)			96.93
	Contractor's profit & overhead		20%	19.39
	Total Labour rate			<u>116.31</u> 116
	2. Plant and Equipment			
	7.5% extra over item 5-5(a)			16.05
	3. Shuttering			
	7.5% extra over item 5-17(c)1			58.78
	4. Scaffolding			
	7.5% extra over item 5-17(c)1			58.78
	Total of 2, 3, & 4			<u>133.60</u>
	Contractor's profit & overhead		20%	26.72
	Total Composite rate			<u>276.64</u> 277

Cu.m. iv) Extra for sloping roofs for slope more than 15 degrees

	1. Labour			
	5% extra over item 5-13(a)			64.62
	Contractor's profit & overhead		20%	12.92
	Total Labour rate			<u>77.54</u> 78
	2. Plant and Equipment			
	5% extra over item 5-5(a)			11.77
	3. Shuttering			
	5% extra over item 5-17(c)1			39.18
	4. Scaffolding			
	5% extra over item 5-17(c)1			39.18
	Total of 2, 3, & 4			<u>90.14</u>
	Contractor's profit & overhead		20%	18.03
	Total Composite rate			<u>185.71</u> 186

Item No. 5-18

Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in barrel type shell roof upto 4" (100mm) in thickness including formwork and its removal, compacting & curing

Cu.m. a) In Ground Floor

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Mason	5.50 Hrs @	125.00	687.50		
Labourer	18.50 Hrs @	87.50	1618.75		
Bahishtti	4.25 Hrs @	87.50	371.88		
Mistri	0.50 Hrs @	110.00	55.00		
			<u>2733.13</u>		
Contractor's profit & overhead		20%	546.63		
Total Labour rate			<u>3279.75</u>	3,280	
2. Material					
Same as item 5-8 (c)			4971.92		
3. Plant and Equipment					
Same as item 5-5(a)			214.00		
4. Shuttering & Scaffolding					
Taking a barrel where the concrete shell span between a series of two stiffening beams at 60' centres and 12' rise. The length of the shell being 80' with a thickness of 3" barrel					
Area for 5 ft width with arc length 66.074' = 66.074 x 5 x 1/4	330.37	Sq.ft.			
Contents	82.59	Cu.ft.			
Considering a strip of 5 ft.run comprising two frames at 5ft c/c over a span of 60 ft.					
i) Frames (Angle Iron 3.5" x 3.5" x 0.25")	= 2 x 60				
	= 2 x 66.07	120.00	Ft.		
		132.15	Ft.		
	@ 2.6 Kg/ft	<u>252.15</u>	Ft.		
		655.58	Kgs.	(A)	
Trusses (1.5" x 1.5" x 0.25")					
= 2 x 1 x 12		24.00	Ft.		
= 2 x 2 x 14.69		58.76	Ft.		
= 2 x 2 x 12.28		49.12	Ft.		
= 2 x 2 x 10.78		43.12	Ft.		
= 2 x 2 x 7.13		28.52	Ft.		
	@ 1.06 Kg/ft	<u>203.52</u>	Ft.		
		215.73	Kgs.	(B)	
Ties between frames 1.25" x 1.25" x 0.25"	= 14 x 5 = 70 ft x 1.91				
	@ 0.87 Kg/ft	70.00	Ft.		
		60.90	Kgs.	(C)	
Flat iron over frame 1.5" x 0.125"	= 2 x 66.07				
	@ 0.29 Kg/ft	132.14	Ft.		
		38.32	Kgs.	(D)	
A + B + C + D		970.54	Kgs.	=	0.97 Tonne
ii) 3" dia G.I.Pipe with shoe at one end & hinged at the other	= 2 x 3 x 12	72.00	R.ft.		
iii) Partal or similar wood shuttering					
Ribs = 198 x 66.07 x 5 x 1/6		55.06	Cu.ft.		
Props = 2 x 10 x 12 x 1/3 x 1/3		26.67	Cu.ft.		
		<u>81.73</u>	Cu.ft.		
Wastage 15%		12.26	Cu.ft.		
		<u>93.99</u>	Cu.ft.		
iv) 0.25" dia 1.5" long bolts and nuts		21.00	Doz.		
0.25" M.S. plate		9.00	Sq.ft.		
Sundries			L.S.		
Material cost					
M.S. section	0.97	Kg.	@	80	77.60
G.I. pipe 75 mm dia.	72	R.M.	@	1875	135000.00
Wood - Partal	94	Cu.ft.	@	1,199.89	112789.46
Sawing charges	94	Cu.ft.	@	87.5	8225.00
Bolts & Nuts	21	No.	@	12	252.00
0.25" M.S. Plate	9	Sq.ft.	@	80	720.00
Sundries for frame on item i, ii, v &vi				1%	1360.50
Sundries for wooden ribs on item iii & iv				1%	1210.14
					<u>259634.70</u>
1. Labour					
i) For assembly of one piece of two frames (steel work)					
Black smith	80	Hrs	@	112	8960.00
Hammer man	24	Hrs	@	87.5	2100.00
Labourer	48	Hrs	@	87.5	4200.00
					<u>15260.00</u>
ii) For assembly of wooden ribs					
Wooden Ribs					
Carpenter shuttering	24	Hrs	@	125	3000.00
Labourer	24	Hrs	@	87.5	2100.00

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	=			5100.00	
	Cost for steel work	=	152670		
	Cost for wood		127325		
	Taking that the angel iron frame can be used for 50 times, the cost per use =	152670	/50	=	3053.40 (A)
	Taking that the wooden ribs can be used for 10 times, the cost per use =	127325	/10	=	12732.46 (B)
	Labour for fixing in position				
	Black smith	32	Hrs	@	112 3584.00
	Labourer	48	Hrs	@	87.5 4200.00
	Crane 3 ton capacity	1	Hrs	@	400 400.00
					8184.00 (C)
	Total (A+B+C)				23969.86 (D)
		= D x 35.31 / 82.59			
	Rate for one Cu.m.				10247.61
	Total of 1,2,3 & 4				18166.66
	Contractor's profit & overhead			20%	3,633.33
	Total Composite rate				21,799.99 21,800
Cu.m. b)	Extra for first floor				
	1. Labour				
	10% extra over item 5-18(a)				273.31
	Contractor's profit & overhead			20%	54.66
	Total Labour rate				327.98 328
	2. Plant and Equipment				
	10% extra over item 5-5(a)				21.40
	3. Shuttering				
	10% extra over item 5-18(a)				1024.76
	Total of 2 & 3				1046.16
	Contractor's profit & overhead			20%	209.23
	Total Composite rate				1,583.37 1,583
Cu.m. c)	Extra for every additional floor above first floor				
	1. Labour				
	7.5% extra over item 5-18(a)				204.98
	Contractor's profit & overhead			20%	41.00
	Total Labour rate				245.98 246
	2. Plant and Equipment				
	7.5% extra over item 5-5(a)				16.05
	3. Shuttering				
	7.5% extra over item 5-18(a)				768.57
	Total of 2 & 3				784.62
	Contractor's profit & overhead			20%	156.92
	Total Composite rate				1,187.53 1,188
	Item No. 5-19				
	Providing and laying in situ cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in arches with spandrels, in basement and ground floor including compacting, curing, cost of formwork and its removal				
Cu.m. a)	1 : 1 : 2				
	1. Labour				
	Same as item 5.13(a)				1292.38
	Contractor's profit & overhead			20%	258.48
	Total Labour rate				1550.85 1,551
	2. Material				
	Same as item 5-8(a)				7470.22
	3. Plant and Equipment				
	Same as item 5-5(a)				214.00
	4. Shuttering				
	Same as item 5.13(a)				1765.50
	35% extra for archwork				617.93
					2383.43
	5. Scaffolding				
	Same as item 5.13(a)				353.10
	50% extra for archwork				176.55
					529.65

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Total of 2, 3, 4 & 5		10597.29	
	Contractor's profit & overhead	20%	2,119.46	
	Total Composite rate		14,267.60	14,268
Cu.m. b)	1 : 1.5 : 3			
	1. Labour			
	Same as item 5.13(a)		1292.38	
	Contractor's profit & overhead	20%	258.48	
	Total Labour rate		1550.85	1,551
	2. Material			
	Same as item 5-8(b)		5894.49	
	3. Plant and Equipment			
	Same as item 5-5(a)		214.00	
	4. Shuttering			
	Same as item 5.19(a)		2383.43	
	5. Scaffolding			
	Same as item 5.19(a)		529.65	
	Total of 2, 3, 4 & 5		9021.57	
	Contractor's profit & overhead	20%	1,804.31	
	Total Composite rate		12,376.73	12,377
Cu.m. c)	1 : 2 : 4			
	1. Labour			
	Same as item 5.13(a)		1292.38	
	Contractor's profit & overhead	20%	258.48	
	Total Labour rate		1550.85	1,551
	2. Material			
	Same as item 5-8(c)		4971.92	
	3. Plant and Equipment			
	Same as item 5-5(a)		214.00	
	4. Shuttering			
	Same as item 5.19(a)		2383.43	
	5. Scaffolding			
	Same as item 5.19(a)		529.65	
	Total of 2, 3, 4 & 5		8099.00	
	Contractor's profit & overhead	20%	1,619.80	
	Total Composite rate		11,269.65	11,270
Cu.m. d)	1 : 3 : 6			
	1. Labour			
	Same as item 5.13(a)		1292.38	
	Contractor's profit & overhead	20%	258.48	
	Total Labour rate		1550.85	1,551
	2. Material			
	Same as item 5-8(d)		4379.69	
	3. Plant and Equipment			
	Same as item 5-5(a)		214.00	
	4. Shuttering			
	Same as item 5.19(a)		2383.43	
	5. Scaffolding			
	Same as item 5.19(a)		529.65	
	Total of 2, 3, 4 & 5		7506.77	
	Contractor's profit & overhead	20%	1,501.35	
	Total Composite rate		10,558.97	10,559
Cu.m. e)	Extra for first floor			
	1. Labour			
	10% extra over item 5-13(a)		129.24	
	Contractor's profit & overhead	20%	25.85	
	Total Labour rate		155.09	155
	2. Plant and Equipment			
	10% extra over item 5-5(a)		21.40	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	3. Shuttering		
	10% extra over item 5-19(a)	238.34	
	4. Scaffolding		
	10% extra over item 5-19(a)	52.97	
	Total of 2, 3 & 4	312.71	
	Contractor's profit & overhead	62.54	
	Total Composite rate	530.33	530
Cu.m. f) Extra for every additional floor above first floor			
	1. Labour		
	7.5% extra over item 5-13(a)	96.93	
	Contractor's profit & overhead	19.39	
	Total Labour rate	116.31	116
	2. Plant and Equipment		
	7.5% extra over item 5-5(a)	16.05	
	3. Shuttering		
	7.5% extra over item 5-19(a)	178.76	
	4. Scaffolding		
	7.5% extra over item 5-19(a)	39.72	
	Total of 2, 3 & 4	234.53	
	Contractor's profit & overhead	46.91	
	Total Composite rate	397.75	398
Item No. 5-20			
Cu.m. a) Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in balustrade of stairs or balcony, sun breakers, sun shades, parapets and eave boards upto 3" (75 mm) of required shape or section including formwork & its removal, compacting and curing in basement and ground floor.			
	1. Labour		
	Same as item 5-13(a)	1292.38	
	Contractor's profit & overhead	258.48	
	Total Labour rate	1550.85	1,551
	2. Material		
	Same as item 5-8(c)	4971.92	
	3. Plant and Equipment		
	Same as item 5-5(a)	214.00	
	4. Shuttering		
	Taking av. width of balcony as one meter		
		3.281 x 0.25 x 43.06	35.31 Cu.ft.
	Surface Area:		
	Bottom =	43.06 x 3.28	141.24
	Sides =	1 x 43.06 x 0.25	10.77
	Sides	2 x 3.28 x 0.25	1.64
		153.64	Sq.ft.
	5. Scaffolding	141.24	Sq.ft. @ 25.00
	Total of 2, 3, 4 & 5		5.00
	Contractor's profit & overhead	9733.15	
	Total Composite rate	1,946.63	
		13,230.63	13,231
Cu.m. b) Extra for first floor			
	1. Labour		
	10% extra over item 5-13(a)	129.24	
	Contractor's profit & overhead	25.85	
	Total Labour rate	155.09	155
	2. Plant and Equipment		
	10% extra over item 5-5(a)	21.40	
	3. Shuttering		
	10% extra over item 5-20(a)	384.10	
	4. Scaffolding		
	10% extra over item 5-20(a)	70.62	
	Total of 2, 3 & 4	476.12	
	Contractor's profit & overhead	95.22	
	Total Composite rate	726.43	726

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Cu.m. c) Extra for every additional floor above first floor			
	1. Labour		
	7.5% extra over item 5-13(a)		96.93
	Contractor's profit & overhead	20%	19.39
	Total Labour rate		<u>116.31</u> 116
	2. Plant and Equipment		
	7.5% extra over item 5-5(a)		16.05
	3. Shuttering		
	7.5% extra over item 5-20(a)		288.08
	4. Scaffolding		
	7.5% extra over item 5-20(a)		52.96
	Total of 2, 3 & 4		357.09
	Contractor's profit & overhead	20%	71.42
	Total Composite rate		<u>544.82</u> 545
Item No. 5-21			
Cu.m. a) Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) & down gauge in stairs of any shape or section including formwork & its removal, compacting and curing in basement and ground floor.			
	1. Labour		
	Same as item 5-13(a)		1292.38
	Contractor's profit & overhead	20%	258.48
	Total Labour rate		<u>1550.85</u> 1,551
	2. Material		
	Same as item 5-8(c)		4971.92
	3. Plant and Equipment		
	Same as item 5-5(a)		214.00
	4. Shuttering		
	Taking a stair 3 m long with landing 1.22 m with a waist of 150 mm, tread 300 mm wide and riser 150 mm.		
	Contents:		
	Waist =	2 x 11.18 x 4.00 x 0.50	44.72
	Landing =	8.00 x 4.00 x 0.50	16.00
	Steps =	20 x 1/2 x 1.00 x 4.00 x 0.50	20.00
			<u>80.72</u>
			Cu.ft.
	Surface Area:		
	Bottom =	2 x 11.18 x 4.0	89.44
	Sides =	2 x 11.18 x 0.50	11.18
	Landing =	1 x 8.0 x 4.00	32.00
	Steps =	20 x 4.00 x 0.50	40.00
	Steps =	20 x 1/2 x 1.0 x 0.50	5.00
			<u>177.62</u>
			(A)
	For 1 Cu.m	= A x 35.31/80.72	77.70
	5. Scaffolding		77.70 @
			25.00 @
			5.00
	Total of 2, 3, 4 & 5		<u>7516.86</u>
	Contractor's profit & overhead	20%	1,503.37
	Total Composite rate		<u>10,571.08</u> 10,571
Cu.m. b) Extra for first floor			
	1. Labour		
	10% extra over item 5-13(a)		129.24
	Contractor's profit & overhead	20%	25.85
	Total Labour rate		<u>155.09</u> 155
	2. Plant and Equipment		
	10% extra over item 5-5(a)		21.40
	3. Shuttering		
	10% extra over item 5-21(a)		194.24
	4. Scaffolding		
	10% extra over item 5-20(a)		38.85
	Total of 2, 3 & 4		254.49
	Contractor's profit & overhead	20%	50.90
	Total Composite rate		<u>460.48</u> 461

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Cu.m. c) Extra for every additional floor above first floor			
1. Labour			
7.5% extra over item 5-13(a)		96.93	
Contractor's profit & overhead	20%	19.39	
Total Labour rate		116.31	116
2. Plant and Equipment			
7.5% extra over item 5-5(a)		16.05	
3. Shuttering			
7.5% extra over item 5-21(a)		145.68	
4. Scaffolding			
7.5% extra over item 5-21(a)		29.14	
Total of 2, 3 & 4		190.87	
Contractor's profit & overhead	20%	38.17	
Total Composite rate		345.36	345
Item No. 5-22			
Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in underground tank, septic tank and underground drain including formwork and its removal, compacting and curing.			
Cu.m. a) Foundation and floor slab			
1. Labour			
Same as item 5-13(a)		1292.38	
Contractor's profit & overhead	20%	258.48	
Total Labour rate		1550.85	1,551
2. Material			
Same as item 5-8(c)		4971.92	
3. Plant and Equipment			
Same as item 5-5(a)		214.00	
4. Shuttering			
Considering a floor slab 6" thick of underground tank 16.5'x11.5' (external dimension) with 6" thick wall			
Contents:	16.50 x 11.5 x 0.5	94.88	Cu.ft.
Wood:	2 x (16.50+11.5) x 0.5 x 1/12	2.33	Cu.ft.
Stays	14 x 1.5 x 0.33 x 0.33	2.29	Cu.ft.
		4.62	Cu.ft.
Wastage @	15%	0.69	Cu.ft.
		5.31	Cu.ft.
Wood - Partial	5.31	Cu.ft.	@ 1,200.00
Sawing charges	5.31	Cu.ft.	@ 87.50
			6840.55
Sundries			10%
Cost of 25 operations			7524.60
Rate for one operation	A/25		300.98
Labour for assembly, removal & clearance of shuttering			
Carpenter shuttering	3.00	Hrs	@ 125.00
Labourer	3.00	Hrs	@ 87.50
			938.48
Rate for one Cu.m	B x 35.31/94.88		349.28
Total of 2, 3 & 4			5535.20
Contractor's profit & overhead	20%		1,107.04
Total Composite rate			8,193.09
			8,193
Cu.m. b) Walls			
Labour			
Same as item 5.13(a)		1292.38	
Contractor's profit & overhead	20%	258.48	
Total Labour rate		1550.85	1,551
Same as in item 5-14(c)		6880.80	
Contractor's profit & overhead	20%	1,376.16	
Total Composite rate		9,807.81	9,808
Cu.m. c) Top slab upto 6" (150 mm) thick			
Labour			

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Same as item 5.13(a)		1292.38	
	Contractor's profit & overhead	20%	258.48	
	Total Labour rate		1550.85	1,551
	Same as in item 5-17(a)		8338.90	
	Contractor's profit & overhead	20%	1,667.78	
	Total Composite rate		11,557.53	11,558

Item No. 5-23

Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in overhead water tanks and silos at a height of 10m (32.8') above ground level including formwork and its removal, compacting and curing.

Cu.m. a) Column footing

Labour					
Same as item 5.13(a)			1292.38		
Contractor's profit & overhead		20%	258.48		
Total Labour rate			1550.85	1,551	
Same as in item 5-22(a)			5535.20		
Contractor's profit & overhead		20%	1,107.04		
Total Composite rate			8,193.09	8,193	

b) Columns and braces

1. Labour								
Same as in item 5-13(a)						1292.38		
Extra Labour								
Mason	1.50	Hrs	@	125.00		187.50		
Labourer	8.50	Hrs	@	87.50		743.75		
Bahishti	3.00	Hrs	@	87.50		262.50		
						2486.13		
Contractor's profit & overhead					20%	497.23		
Total Labour rate						2983.35	2,983	
2. Material								
Same as item 5-8(c)						4971.92		
3. Plant and Equipment								
Same as item 5-5(a)						214.00		
4. Shuttering								
Contents of concrete in 4 columns with 8 braces								
Columns =	4 x 14/12 x 14/12 x 3:	178.58						
Braces =	8 x 1.0 x 1.0 x 12.5	100.00						
<u>Wood:</u>		278.58						
Columns =	4 x 4 x 15/12 x 32.80	54.67						
Binders =	4 x 4 x 10 x 17/12 x 1/	3.15						
<u>Braces:</u>								
Bottom =	8 x 12.5 x 1.0 x 1/8	12.50						
Sides =	8 x 2 x 12.5 x 14/12 x	19.44						
Brackets =	2 x 8 x 5 x 3 x 1/6 x 1/	3.33						
Spreaders =	8 x 5 x 7/6 x 1/6 x 1/1:	0.65						
Posts =	40 x 10 x 1/4 x 1/4	25.00						
End pieces of brace	2 x 32 x 1/2 x 1/2 x 1/:	8.00						
Stays =	2 x 8 x 20 x 1/4 x 1/4	20.00						
		146.74						
Wastage @	20%	29.35						
		176.09						
Wood - Partal		176.09			@	1,200.00	211306.67	
Sawing charges		176.09			@	87.50	15407.78	
Nails						10%	1540.78	
Sundries						10%	1540.78	
Labour for making panels:								
Carpenter shuttering		120.00			Hrs	@	125.00	15000.00
Carpenter helper		120.00			Hrs	@	87.50	10500.00
Cost for 10 operations							255296.00	(A)
Cost for one operation		A/10					25529.60	
Repair charges for each operation						10%	2552.96	
Oiling and greasing						5%	1276.48	
Labour for cutting & removing forms								
Carpenter shuttering		56.00			Hrs	@	125.00	7000.00

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
	Carpenter helper	92.00	Hrs	@	87.50	8050.00	
	Cost for 278.58 Cu.ft concrete					44409.04	(B)
	Cost for 1 Cu.m.	B x 35.31/278.58				5628.89	
	Total of 2, 3 & 4					10814.81	
	Contractor's profit & overhead				20%	2,162.96	
						15,961.12	15,961
Cu.m. c) Beams							
	1. Labour						
	Same as item 5-23(b)					2486.13	
	Contractor's profit & overhead				20%	497.23	
	Total Labour rate					2983.35	2,983
	2. Material						
	Same as item 5-8(c)					4971.92	
	3. Plant and Equipment						
	Same as item 5-5(a)					214.00	
	4. Shuttering						
	Same as item 5-23(b)					5628.89	
	Extra Labour:						
	Carpenter shuttering	2.25	Hrs	@	125.00	281.25	
	Labourer	2.25	Hrs	@	87.50	196.88	
						6107.01	
	Total of 2, 3 & 4					11292.94	
	Contractor's profit & overhead				20%	2,258.59	
						16,534.87	16,535
Cu.m. d) Walls							
	1. Labour						
	Same as in item 5-13(a)					1292.38	
	Contractor's profit & overhead				20%	258.48	
	Total Labour rate					1550.85	1,551
	2. Material						
	Same as in item 5-8(c)					4971.92	
	3. Plant and Equipment						
	Same as in item 5-5(a)					214.00	
	4. Shuttering						
	Same as in item 5-13(a)					1765.50	
	Extra Labour:						
	Carpenter shuttering	1.00	Hrs	@	125.00	125.00	
	Labourer	2.00	Hrs	@	87.50	175.00	
						2065.50	
	5. Scaffolding						
	Same as in item 5-13(a)					353.10	
	Total of 2, 3, 4 & 5					7604.52	
	Contractor's profit & overhead				20%	1,520.90	
						10,676.28	10,676
Cu.m. e) Bottom slab							
	1. Labour						
	Same as in item 5-23(b)					2486.13	
	Contractor's profit & overhead				20%	497.23	
	Total Labour rate					2983.35	2,983
	2. Material						
	Same as in item 5-8(c)					4971.92	
	3. Plant and Equipment						
	Same as in item 5-5(a)					214.00	
	4. Shuttering						
	Same as in item 5-17(a)	2,627.48			(A)		
	Same as in item 5-17(b)	1,938.96			(B)		
		4,566.44					
	Average =	(A+B)/2				2283.22	
	Extra Labour						
	Carpenter shuttering	1.75	Hrs	@	125.00	218.75	
	Carpenter helper	4.25	Hrs	@	87.50	371.88	
						2873.84	

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	5. Scaffolding				
	Same as in item 5-17(a)	525.50	(A)		
	Same as in item 5-17(b)	387.79	(B)		
		<u>913.29</u>			
	Average = (A+B)/2			456.64	
	Total of 2, 3, 4 & 5			<u>8516.41</u>	
	Contractor's profit & overhead		20%	<u>1,703.28</u>	
				<u>13,203.04</u>	13,203
Cu.m. f)	Top slab				
	1. Labour				
	Same as in item 5-23(b)			2486.13	
			20%	<u>497.23</u>	
	Total Labour rate			<u>2983.35</u>	2,983
	2. Material				
	Same as in item 5-8(c)			4971.92	
	3. Plant and Equipment				
	Same as in item 5-5(a)			214.00	
	4. Shuttering				
	Same as item 5-23(e)			2873.84	
	Extra Labour				
	Carpenter shuttering	2.25	Hrs @	125.00	281.25
	Carpenter helper	8.50	Hrs @	87.50	<u>743.75</u>
					3898.84
	5. Scaffolding				
	Same as item 5-23(e)			456.64	
	Total of 2, 3, 4 & 5			<u>9541.41</u>	
	Contractor's profit & overhead		20%	<u>1908.28</u>	
	Total Composite rate			<u>14433.04</u>	14,433
Cu.m. g)	Extra for every additional height of 3 ft. (1 m) or part thereof above Item 5-23 (a to f)				
	i) Lifting centering material				
	Labourer	1.00	Hrs @	87.50	87.50
	ii) Lifting building material and curing				
	Labourer	1.50	Hrs @	87.50	131.25
	Bahishti	0.50	Hrs @	87.50	<u>43.75</u>
	Total of i & ii				262.50
	Contractor's profit & overhead		20%	<u>52.50</u>	
	Total Labour rate			<u>315.00</u>	315
Cu.m. h)	Deduction for every lesser height of 3 ft (1 m.) or part thereof above Item 5-23 (a to f)				
	i) Less for lifting centering material				
	Labourer	0.90	Hrs @	87.50	78.75
	ii) Less for lifting building material and curing				
	Labourer	1.40	Hrs @	87.50	122.50
	Bahishti	0.40	Hrs @	87.50	<u>35.00</u>
	Total of i & ii				236.25
	Contractor's profit & overhead		20%	<u>47.25</u>	
	Total Labour rate			<u>283.50</u>	284
	Item No. 5-24				
Cu.m.	Extra on item 5-16 to 5-18 and 5-20 to 5-23 for cement concrete 1:1.5:3 instead of 1:2:4.				
	Material 1:1.5:3				
	Same as item 5-8(b)			5894.49	
	Deduct material cost of 1:2:4 concrete of item 5-8 (c)			<u>4971.92</u>	
	Total			922.57	
	Contractor's profit & overhead		20%	<u>184.51</u>	
	Total rate			<u>1107.08</u>	1,107
	Item No. 5-25				
Cu.m.	Extra on item 5-16 to 5-18 and 5-20 to 5-23 for cement concrete 1:1:2 instead of 1:2:4.				
	Material 1:1:2				
	Same as item 5-8(a)			7470.22	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Deduct material cost of 1:2:4 concrete of item 5-8 (c)	4971.92	
	Total	2498.29	
	Contractor's profit & overhead	20%	499.66
	Total rate	2997.95	2,998

Item No. 5-26

Cu.m. Providing and laying in position ready mixed concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per mix design to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.

a) 3000 Psi

1) Labour

Foreman	0.40	Hrs	@	125.00	50.00
Supervisor	0.48	Hrs	@	140.00	67.20
Assistant Supervisor	0.30	Hrs	@	115.00	34.50
Surveyor	0.40	Hrs	@	140.00	56.00
Mason	1.28	Hrs	@	125.00	160.00
Carpenter	4.80	Hrs	@	125.00	600.00
Helper	12.00	Hrs	@	75.00	900.00
Labourer	1.60	Hrs	@	87.50	140.00
					2,007.70
Contractor's profit & overhead			20%		401.54

Total Labor2,409.24 **2,409**

2) Material

Approved Coarse Sand	0.44	Cu.m.	@	1,059.30	466.09
Approved Crushed Aggregate 3/4" -3/8"	0.28	Cu.m.	@	1,296.75	363.09
Approved Crushed Aggregate 1/2" & down gauge	0.66	Cu.m.	@	1,235.00	815.10
Cement OPC	0.31	M.Ton	@	10500.00	3,265.50
Water	0.65	Litre	@	5.00	3.25

3) Plant & Equipment

Water tanker, 1000 gallon capacity	0.16	Hrs	@	583.00	93.28
Concrete Batching Plant (30 Cum/Hr.)	0.12	Hrs	@	2575.00	309.00
Concrete Transit Mixer (6 cum)	0.96	Hrs	@	1676.00	1,608.96
Pump including POL with driver	0.16	Hrs	@	300.00	48.00
Vibrator including operator	0.32	Hrs	@	175.00	56.00
Concrete Pump	0.16	Hrs	@	1509.00	241.44

Total of 2 & 3

7,269.71

Contractor's profit & overhead

20% 1,453.94

Total Composite rate

11,132.89 **11,133****b) 4000 Psi**

1) Labour

Foreman	0.40	Hrs	@	125.00	50.00
Supervisor	0.48	Hrs	@	140.00	67.20
Assistant Supervisor	0.30	Hrs	@	115.00	34.50
Surveyor	0.40	Hrs	@	140.00	56.00
Mason	1.28	Hrs	@	125.00	160.00
Carpenter	4.80	Hrs	@	125.00	600.00
Helper	12.00	Hrs	@	75.00	900.00
Labourer	1.60	Hrs	@	87.50	140.00
					2,007.70
Contractor's profit & overhead			20%		401.54

Total Labor2,409.24 **2,409**

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
2) Material							
	Approved Coarse Sand	0.42	Cu.m.	@	1,059.30	444.91	
	Approved Crushed Aggregate 3/4" -3/8"	0.21	R.M.	@	1,296.75	272.32	
	Approved Crushed Aggregate 1/2" & down gauge	0.63	R.M.	@	1,235.00	778.05	
	Cement OPC	0.40	M.Ton	@	10,500.00	4,158.00	
	Water	0.28	No.	@	5.00	1.40	
3) Plant & Equipment							
	Water tanker, 1000 gallon capacity	0.16	Hrs	@	583.00	93.28	
	Concrete Batching Plant (30 Cum/Hr.)	0.12	Hrs	@	2575.00	309.00	
	Concrete Transit Mixer (6 cum)	0.96	Hrs	@	1676.00	1,608.96	
	Pump including POL with driver	0.16	Hrs	@	300.00	48.00	
	Vibrator including operator	0.32	Hrs	@	175.00	56.00	
	Concrete Pump	0.16	Hrs	@	1509.00	241.44	
	Total of 2 & 3					8,011.35	
	Contractor's profit & overhead				20%	1,602.27	
	Total Composite rate					12,022.86	12,023
c) 5000 Psi							
1) Labour							
	Foreman	0.40	Hrs	@	125.00	50.00	
	Supervisor	0.48	Hrs	@	140.00	67.20	
	Assistant Supervisor	0.30	Hrs	@	115.00	34.50	
	Surveyor	0.40	Hrs	@	140.00	56.00	
	Mason	1.28	Hrs	@	125.00	160.00	
	Carpenter	4.80	Hrs	@	125.00	600.00	
	Helper	12.00	Hrs	@	75.00	900.00	
	Labourer	1.60	Hrs	@	87.50	140.00	
	Contractor's profit & overhead				20%	2,007.70	
	Total Labor					401.54	
	Total Labor					2,409.24	2,409
2) Material							
	Approved Coarse Sand	0.39	Cu.m.	@	1,059.3	413.13	
	Approved Crushed Aggregate 3/4" -3/8"	0.19	No.	@	1,296.8	246.38	
	Approved Crushed Aggregate 1/2" & down gauge	0.58	No.	@	1,235.0	716.30	
	Cement OPC	0.54	M.Ton	@	10,500.0	5,712.00	
	Super Plastisizer	2.50	Litre	@	450.00	1,125.00	
	Water	2.49	Sq.m.	@	5.0	12.45	
3) Plant & Equipment							
	Water tanker, 1000 gallon capacity	0.16	Hrs	@	583.00	93.28	
	Concrete Batching Plant (30 Cum/Hr.)	0.12	Hrs	@	2575.00	309.00	
	Concrete Transit Mixer (6 cum)	0.96	Hrs	@	1676.00	1,608.96	
	Pump including POL with driver	0.16	Hrs	@	300.00	48.00	
	Vibrator including operator	0.32	Hrs	@	175.00	56.00	
	Concrete Pump	0.16	Hrs	@	1509.00	241.44	
	Total of 2 & 3					15,581.94	
	Contractor's profit & overhead				20%	2,116.39	
	Total Composite rate					15,107.57	15,108
d) Additional for Shuttering and Scaffolding (including on a, b or c for Foundations, Bed Plates and Sills)							
	Same as shuttering of Item No. 5-11A					1,183.50	
	Contractor's profit & overhead				20%	236.70	
	Total Composite rate					1,420.20	1,420

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
e)	Additional for Shuttering and Scaffolding on a, b or c for wall and piers etc, upto 12" (300 mm) in thickness				
	1. Shuttering				
	Taking average wall thickness as $(0.75+1.25)/2 = 12''$				
	Total Shuttering on both sides of wall in sft (35.31x2/1) =	70.62	Sft @	25.00	1765.50
	2. Scaffolding	70.62	Sft @	5.00	353.10
	Total of 2 & 3				2,118.60
	Contractor's profit & overhead			20%	423.72
	Total Composite rate				2,542.32
					2,542
f)	Additional for Shuttering and Scaffolding on a, b or c for wall and piers etc, 12" to 18" in thickness				
	1. Shuttering				
	Taking average wall thickness as $(1+1.5)/2 = 15''$				
	Total Shuttering on both sides of wall in sft (35.31x2/1.25) =	56.50	Sft @	25.00	1412.40
	2. Scaffolding	56.50	Sft @	25.00	1412.40
	Total				2824.80
	Contractor's profit & overhead			20%	564.96
	Total Composite rate				3,389.76
					3,390
g)	Additional for Shuttering and Scaffolding on a, b or c for wall and piers etc, 18" to 24" in thickness				
	1. Shuttering				
	Taking average wall thickness as $(1.5+2)/2 = 1.75'$				
	Total Shuttering on both sides of wall in sft (35.31x2/1.75) =	40.35	Sft @	25.00	1008.86
	2. Scaffolding	40.35	Sft @	25.00	1008.86
	Total				2017.71
	Contractor's profit & overhead			20%	403.54
	Total Composite rate				2,421.26
					2,421
h)	Additional for Shuttering and Scaffolding on a, b or c for wall and piers etc, upto 24" to 36" in thickness				
	1. Shuttering				
	Taking average wall thickness as $(2+3)/2 = 2.5'$				
	Total Shuttering on both sides of wall in sft (35.31x2/2.5) =	28.25	Sft @	25.00	706.20
	2. Scaffolding =	28.25	Sft @	25.00	706.20
	25% Extra on 1+2 for additional staggering and bracing				353.10
	Total				1765.50
	Contractor's profit & overhead			20%	353.10
	Total Composite rate				2,118.60
					2,119
i)	Additional for Shuttering and Scaffolding on a, b or c for pillars and columns of any shape				
	1. Shuttering				
	Column Surface area:	$2 \times 2 \times 17.65 =$	70.60		
		$2 \times 1 \times 17.65$	35.30		
			105.90	Sft @	25.00
	2. Scaffolding				2647.50
	Rate of scaffolding for columns, using one grid				
	Surface area	105.90	Sft @	5.00	529.50
	Total				3177.00
	Contractor's profit & overhead			20%	635.40
	Total Composite rate				4,165.50
					4,166
j)	Additional for Shuttering and Scaffolding on a, b or c for beams, lintels and cantilevers of required shape				
	1. Shuttering				

Unit	Description	Component Cost		Unit Rate
		(Rs)		(Rs)
Beam size 12" x 24" then length in Cu.m. =	Bottom = 1.0 x 17.66	17.66		
Surface area:	Sides = 2 x 2 x 17.66	70.64		
	= 2 x 2 x 2	8.00		
		96.30	@	25.00
2. Scaffolding		96.30	@	5.00
Total				481.50
Contractor's profit & overhead			20%	577.80
Total Composite rate				3,466.80
				3,467

k) Extra for Additional for Shuttering and Scaffolding on

1. Shuttering				
Taking slab 4.5m x 3.5m,	Bottom = 14.76 x 11.48	169.44		
Surface area:	Sides = 2 x 14.76 x 0.375	11.07		
	Sides = 2 x 11.48 x 0.375	8.61		
		189.12		Sq.ft.
For one Cu.M	189.12 x 35.31 / (0.375*169.44)	105.10	@	25.00
2. Scaffolding		105.10	@	5.00
Total				3152.97
Contractor's profit & overhead			20%	630.59
Total Composite rate				3,783.57
				3,784

l) Additional for Shuttering and Scaffolding on a, b or c for slabs from 6" upto 9" in thickness

1. Shuttering				
Taking slab 4.5m x 3.5m, Contents	Bottom = 14.76 x 11.48	169.44		
	Sides = 2 x 14.76 x 0.75	22.14		
	Sides = 2 x 11.48 x 0.75	17.22		
Surface area:		208.80		Sq.ft.
For one Cu.m.	208.8 x 35.31 / (0.75*126.75)	77.56	@	25.00
2. Scaffolding		77.56	@	5.00
Total of 2, 3, & 4				2326.75
Contractor's profit & overhead			20%	465.35
Total Composite rate				3,422.70
				3,423

m) Additional for Shuttering and Scaffolding on a, b or c for slabs above 9" in thickness

1. Shuttering				
Taking slab 4.5m x 3.5m,	Bottom = 14.76 x 11.48	169.44		
Surface area:	Sides = 2 x 14.76 x 1.25	36.90		
	Sides = 2 x 11.48 x 1.25	28.70		
		235.04		Sq.ft.
For one Cu.m.	235.04 x 35.31 / (1.25x211.806)	31.35	@	25.00
2. Scaffolding		31.35	@	25.00
Total				1567.36
Contractor's profit & overhead			20%	313.47
Total Composite rate				2,268.63
				2,269

n) Extra for First Floor

Additional for First Floor				10%
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o) Extra for Every Additional Floor after First Floor

Additional for every additional floor after first floor				7.5%
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Item No. 5-27

Cu.m. a) Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in precast shelves coping, cornices, eave boards, hood, fencing posts and manhole covers etc. including formwork & its removal, compacting and curing in ground floor.

1. Labour				
Same as item 5-13(a)				1292.38
Contractor's profit & overhead			20%	258.48

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		1550.85		1,551
	2. Material				
	Same as in item 5-8(c)		4971.92		
	3. Plant and Equipment				
	Same as item 5-5(a)		214.00		
	4. Shuttering				
	Taking two shelves 10' x 1.5' x 2" thick.				
	Contents =	2 x 10 x 3/2 x 1/6	5.00	Cu.ft.	
	i) Wood	2 x 2(10+3/2) x 1/6 x	0.64	Cu.ft.	
	Wastage	15%	0.10	Cu.ft.	
			0.73	Cu.ft.	
	Wood - Partial		0.73	Cu.ft.	@ 1,200.00
	Sawing charges		0.73	Cu.ft.	@ 87.50
					876.00
					64.29
					940.29
	Sundries			10%	94.03
	Rate for 25 operations				1034.32
	Rate for one operation (A/25)				41.37
	ii) Platform				
	Rate same as in item 3-6(a)				
	Dry bed =	12.0' x 5.0 x 0.25	0.42	Cu.m.	@ 283.50
	Rate same as 5-8(d) without profit				120.42
	Concrete (1:3:6) =	12.0 x 5.0 x 1/6	0.28	Cu.m.	@ 4379.69
	Rate for 100 operation				1240.35
	Rate for one operation (B)/100				1360.77
	Total of i & ii				13.61
	Oiling and greasing			@ 10%	54.98
	Repair charges			@ 5%	5.50
					2.75
					63.23
	Rate for one Cu.m.	C x 35.31/5			446.51
	5. Labour for assembly, removal & clearance of shuttering				
	Carpenter shuttering		1.50	Hrs	@ 125.00
	Labourer		1.50	Hrs	@ 87.50
					187.50
					131.25
					318.75
	6. Labour for placing in position				
	Labourer		11.0	Hrs	@ 87.50
					820.24
	Total of 2,3,4,5 & 6				6771.43
	Contractor's profit & overhead			20%	1354.29
	Total Composite rate				9676.56
					9,677
	Cu.m. b) Extra for first floor				
	1. Labour				
	10% extra over item 5-13(a)				129.24
	Contractor's profit & overhead			20%	25.85
	Total Labour rate				155.09
	2. Plant and Equipment				
	10% extra over item 5-5(a)				21.40
	3. Shuttering				
	10% extra over item 5-27(a)				44.65
	4. Assembly				
	10% extra over item 5-27(a)				31.88
	5. Placing				
	10% extra over item 5-27(a)				82.02
	Total of 2, 3, 4 & 5				179.95
	Contractor's profit & overhead			20%	35.99
	Total Composite rate				371.03
					371
	Cu.m. c) Extra for every additional floor above first floor				
	1. Labour				
	7.5% extra over item 5-13(a)				96.93
	Contractor's profit & overhead			20%	19.39
	Total Labour rate				116.31
	2. Plant and Equipment				
	7.5% extra over item 5-5(a)				16.05
	3. Shuttering				

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	7.5% extra over item 5-27(a)		33.49
	4. Assembly		
	7.5% extra over item 5-27(a)		23.91
	5. Placing		
	7.5% extra over item 5-27(a)		61.52
	Total of 2, 3, 4 & 5		134.96
	Contractor's profit & overhead	20%	26.99
	Total Composite rate		278.27
			278

Item No. 5-28

Providing and fixing precast cement concrete jali or louvers upto 2" (50mm) thick in required shape including formwork and its removal, compacting and curing.

Sq.m. a) 1 : 2

For 600 Sq. ft.

1. Labour

For making

Mason	95.98	Hrs	@	125.00	11997.50
Labourer	95.98	Hrs	@	87.50	8398.25
Bahishti	4.00	Hrs	@	87.50	350.00
					<u>20745.75</u>

For fixing

Mason	24.00	Hrs	@	125.00	3000.00
Labourer	24.00	Hrs	@	87.50	2100.00
					<u>5100.00</u>

Total 25845.75

Contractor's profit & overhead 20% 5169.15

Total Labour rate 556.20 **556**

2. Material

For making

Cement mortar 1 : 2					
With 50% openings (125 x 1/2)	62.50	Cu.ft.			
Cement OPC	0.90	M.Ton	@	10500.00	9450.00
Sand local	45.00	Cu.ft.	@	25.00	1125.00
					<u>10575.00</u>

For fixing with 1 : 2 mortar

Cement OPC	0.00	M.Ton	@	10500.00	0.00
Sand local (5x2/3)	0.00	Cu.ft.	@	25.00	0.00
					<u>0.00</u>

Water charges 1.5% 158.63

10733.63

3. Shuttering

Shuttering 25% of material cost 25% 2683.41

Total of 2 & 3 13417.03

Contractor's profit & overhead 20% 2683.41

16100.44

Total Composite rate 10.76/600 844.94 **845**

Sq.m. b) 1 : 3

1. Labour

Same as in item 5-28(a) above 25845.75

Contractor's profit & overhead 20% 5169.15

Total Labour rate 556.20 **556**

2. Material

For making

Cement mortar 1 : 3					
With 50% openings (125 x 1/2)	62.50	Cu.ft.			
Cement OPC	0.64	M.Ton	@	10500.00	6720.00
Sand local	46.88	Cu.ft.	@	25.00	1172.00
					<u>7892.00</u>

For fixing with 1 : 2 mortar

Same as in item 5-28(a) above 0.00

Water charges 1.5% 118.38

8010.38

3. Shuttering

Shuttering 25% of material cost 25% 2002.60

Total of 2 & 3 10012.98

Contractor's profit & overhead 20% 2002.60

12015.57

Total Composite rate 10.76/600 771.68 **772**

Unit	Description	Component Cost			Unit Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Sq.m. c) 1 : 4					
	1. Labour (For making and fixing) Same as in item 5-28(a) above				25845.75
	Contractor's profit & overhead	20%		5169.15	
	Total Labour rate			556.20	556
	2. Material				
	For making				
	With 50% openings (125 x 1/2)	Cement mortar 1 : 3	62.50	Cu.ft.	
	Cement OPC		0.51	M.Ton @	10500.00
	Sand local		50.00	Cu.ft. @	25.00
					6605.00
	For fixing with 1 : 2 mortar				
	Same as in item 5-28(a) above				0.00
	Water charges			1.5%	99.08
					6704.08
	3. Shuttering				
	Shuttering 25% of material cost			25%	1676.02
	Total of 2 & 3				8380.09
	Contractor's profit & overhead	20%		1676.02	
					10056.11
	Total Composite rate	10.76/600		736.54	737
Item No. 5-29-1					
Cu.m.	Providing and laying light weight concrete using 1 cement 6 cinder or similar material having weight not more than 650 kg/cubic meter including air-entraining agents, formwork, its removal, compacting and curing.				
	1. Labour				
	Mason	3.00	Hrs	@	125.00
	Labourer	10.00	Hrs	@	87.50
	Bahishti	4.25	Hrs	@	87.50
	Mistri	0.25	Hrs	@	110.00
					1649.38
	Contractor's profit & overhead			20%	329.88
	Total Labour rate				1979.25
	2. Material				
	Cement OPC	0.30	M.Ton	@	10500.00
	Cinder	1.00	Cu.m.	@	200.00
	Air entraining agent	8.75	litre	@	225.00
					5318.75
	Water charges			1.5%	79.78
					5398.53
	3. Plant and Equipment				
	Concrete mixer with operator - 5 Cu.ft.	0.50	Hrs	@	253.00
					126.50
	4. Shuttering	(5% of 1+2)			5%
	5. Scaffolding	(0.5% of 1+2)			0.5%
	Total of 2, 3, 4 & 5				352.40
					35.24
					5912.67
	Contractor's profit & overhead			20%	1182.53
	Total Composite rate				9074.45
					9,074
Item No. 5-30					
Extra for providing and using cement other than ordinary portland cement.					
Tonne a)	Sulphate resisting cement				
	Cement - sulphate resistant.	1.00	M.Ton	@	11500
	Cement OPC	1.00	M.Ton	@	10500
	Difference in cost				1000.00
	Contractor's profit & overhead			20%	200.00
	Total Composite rate				1200.00
					1,200
Tonne b)	High alumina cement				
	Cement - high Alumina	1.00	M.Ton	@	10700
	Cement OPC	1.00	M.Ton	@	10500
					10700.00
					10500.00

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
	Difference in cost		200.00				
	Contractor's profit & overhead	20%	40.00				
	Total Composite rate		240.00		240		
Tonne c)	Rapid hardening cement						
	Cement - rapid hardening	1.00	M.Ton	@	10700	10700.00	
	Cement OPC	1.00	M.Ton	@	10500	10500.00	
	Difference in cost					200.00	
	Contractor's profit & overhead			20%		40.00	
	Total Composite rate					240.00	240
	Item No. 5-31-1						
Kg.	Providing and using any approved accelerating agent in cement concrete.						
	Cement liquid compound	1.00	Liter	@	22.00	22.00	
	Set accelerating agent	1.00	Liter	@	247.50	247.50	
	Mixing charges			10%		24.75	
						294.25	
	Contractor's profit & overhead			20%		58.85	
	Total Composite rate					353.10	353
	Item No. 5-32-1						
Litre	Providing and using in concrete any approved 3rd Generation retarding agent.						
	Retarding Agent	1.00	Liter	@	400.00	400.00	
	Mixing charges			10%		40.00	
						440.00	
	Contractor's profit & overhead			20%		88.00	
	Total Composite rate					528.00	528
	Item No. 5-33-1						
Kg.	Providing and using in concrete any approved wetting agent.						
	Wetting agent	1.00	Litre	@	198.00	198.00	
	Mixing charges			10%		19.80	
						217.80	
	Contractor's profit & overhead			20%		43.56	
	Total Composite rate					261.36	261
	Item No. 5-34						
	Providing and using concrete additives and Chemical.						
Kg. a)	Pudlo or similar						
	Pudlo	1.00	Kg.	@	70.00	70.00	
	Mixing charges			10%		7.00	
						77.00	
	Contractor's profit & overhead			20%		15.40	
	Total Composite rate					92.40	92
Kg. b)	Pucca kam or similar						
	Pucca kam	1.00	Kg.	@	35.00	35.00	
	Mixing charges			10%		3.50	
						38.50	
	Contractor's profit & overhead			20%		7.70	
	Total Composite rate					46.20	46
	Item No. 5-35-1						
Sq.m.	Providing and applying two coats of hot bitumen (maxphalt 80/100 or equivalent) using 1.22 kg. per sq.metre for first coat and 1.0 kg. per Sq.m. for 2nd coat including cleaning the surface, heating and spraying the asphalt on concrete faces.						
	Detail of cost for 40 sq.m. using asphalt 80/100						

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
For cleaning the surface heating and spraying asphalt					
Labourer	27.55	Hrs	@	87.50	2410.63
Spray man	0.00	Hrs	@	125.00	0.00
					<u>2410.63</u>
Contractor's profit & overhead				20%	482.13
Total Labour rate					<u>72.32</u> 72
2. Material					
First coat =	1.22 x 40	48.80	Kg.		
2nd coat =	1.00 x 40	40.00	Kg.		
		<u>88.80</u>	Kg.		
Wastage	5%	4.44	Kg.		
		<u>93.24</u>	Kg.		
Bitumen 80/100		66.41	Kg.	@	80.00
Fuel wood		19.20	Kg.	@	15.00
					<u>288.00</u>
					5600.80
3. Plant and equipment					
Tar boiler with attendant	0.60	Hrs	@	200.00	120.00
Sundries				25%	30.00
					<u>150.00</u>
Total of 2 & 3					5750.80
Contractor's profit & overhead				20%	1150.16
Total Composite rate					<u>244.84</u> 245
Item No. 5-36					
Forming expansion joints with cork sheet including one coat of bitumen and preparation of surface.					
1. Labour					
Labourer	1.00	Hrs	@	87.50	87.50
Painter	0.25	Hrs	@	125.00	31.25
					<u>118.75</u>
Contractor's profit & overhead				20%	23.75
Total Labour rate					<u>142.50</u> 143
Bitumen compound	1.00	Kg.	@	80.00	80.00
Kerosene oil	(No. 3 or 4)			20%	16.00
Fuel				10%	8.00
Fixing cork sheet				5%	5.20
Misc charges				10%	11.88
					<u>121.08</u>
Sq.m. a) 1/2" (12.5 mm) thick					
Cork sheet 1/2" thick	1.00	Sq.m.	@	625.00	625.00
Surface preparation & fixing charges					<u>121.08</u>
					746.08
Contractor's profit & overhead				20%	149.22
Total Composite rate					<u>1037.79</u> 1,038
Sq.m. b) 3/4" (19 mm) thick					
Cork sheet 19mm thick	1.00	Sq.m.	@	875.00	875.00
Surface preparation & fixing charges					<u>121.08</u>
					996.08
Contractor's profit & overhead				20%	199.22
Total Composite rate					<u>1337.79</u> 1,338
Sq.m. c) 1" (25 mm) thick					
Cork sheet 25 mm thick	1.00	Sq.m.	@	1,500.00	1500.00
Surface preparation & fixing charges					<u>121.08</u>
					1621.08
Contractor's profit & overhead				20%	324.22
Total Composite rate					<u>2087.79</u> 2,088
Sq.m. d) 1-1/2" (37.5 mm) thick					

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
	Cork sheet 37.5mm thick	1.00	Sq.m.	@	2,000.00	2000.00
	Surface preparation & fixing charges					121.08
						<u>2121.08</u>
	Contractor's profit & overhead				20%	424.22
	Total Composite rate					<u>2687.79</u> 2,688
Sq.m. e)	2" (50 mm) thick					
	Cork sheet 50 mm thick	1.00	Sq.m.	@	2,500.00	2500.00
	Surface preparation & fixing charges					121.08
						<u>2621.08</u>
	Contractor's profit & overhead				20%	524.22
	Total Composite rate					<u>3287.79</u> 3,288
Sq.m. f)	G.I. corrugated sheet of any gauge and thickness					
	G.I. sheet corrugated	1.00	Kg.	@	150.00	150.00
	Fixing charges				5%	7.50
						<u>157.50</u>
	Contractor's profit & overhead				20%	31.50
	Total Composite rate					<u>331.50</u> 332
	Item No. 5-37-1					
Liter	Providing and laying joint sealing compound.					
	1. Labour					
	Labourer	2.00	Hrs	@	87.50	175.00
	Contractor's profit & overhead				20%	35.00
	Total Labour rate					<u>210.00</u> 210
	2. Material					
	Rubber sealing compound	1.00	Kg.	@	275.00	275.00
	Heating				8%	36.00
	Application				8%	36.00
						<u>347.00</u>
	Contractor's profit & overhead				20%	69.40
	Total Composite rate					<u>626.40</u> 626
	Item No. 5-38					
	Providing and fixing P.V.C. ribbed waterstop in vertical or horizontal expansion joints including cutting or jointing.					
	Detail of cost for 12 Rft.					
R.M. a)	P.V.C. ribbed water stop 4.5" (114 mm) wide					
	1. Labour					
	Mason	2.00	Hrs	@	125.00	250.00
	Labourer	0.00	Hrs	@	87.50	0.00
						<u>250.00</u>
	Contractor's profit & overhead				20%	50.00
	Total Labour rate					<u>82.00</u> 82
	2. Material					
	PVC water stop 4.5" wide	12.00	R.ft.	@	62.23	746.80
	Contractor's profit & overhead				20%	149.36
	Total Composite rate					<u>326.95</u> 327
R.M. b)	P.V.C. ribbed water stop 6" (150 mm) wide					
	1. Labour					
	Same as in item 5-38(a)					250.00
	Contractor's profit & overhead				20%	50.00
	Total Labour rate					<u>82.00</u> 82

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
	2. Material						
	PVC water stop 6" wide	12.00	R.ft.	@	71.04	852.44	
	Contractor's profit & overhead				20%	170.49	
	Total Composite rate					361.60	362
R.M.	c) P.V.C. ribbed water stop 9" (225 mm) wide						
	1. Labour						
	Same as in item 5-38(a)					250.00	
	Contractor's profit & overhead				20%	50.00	
	Total Labour rate					82.00	82
	2. Material						
	PVC water stop 9" wide	12.00	R.ft.	@	12.58	150.99	
	Contractor's profit & overhead				20%	30.20	
	Total Composite rate					131.52	132
	Item No. 5-39-1						
R.M.	Drilling and grouting holes upto 3" (75 mm) dia in existing concrete for reinforcement bars.						
	1. Labour						
	Driller	0.50	Hrs	@	87.50	43.75	
	Helper	0.50	Hrs	@	75.00	37.50	
	Mason	0.20	Hrs	@	125.00	25.00	
	Mason helper	0.20	Hrs	@	87.50	17.50	
						123.75	
	Contractor's profit & overhead				20%	24.75	
	Total Labour rate					148.50	149
	2. Material & equipment						
	Mortar cost				30%	37.13	
	Shuttering				5%	6.19	
	Additive				5%	6.19	
	Drill machine (Hire charges)	0.50	Hrs	@	60.00	30.00	
	Grout pum mixer (Hire charges)	0.20	Hrs	@	112.50	22.50	
						102.00	
	Contractor's profit & overhead				20%	20.40	
	Total Composite rate					270.90	271
	Item No. 5-40-1						
Sq.m.	Grouting base plates, rails, anchor bolts foundation bolts and anchor frames of guide rails etc.						
	1. Labour						
	Labourer	1.00	Hrs	@	87.50	87.50	
	Mason	1.50	Hrs	@	125.00	187.50	
	Mason helper	1.50	Hrs	@	87.50	131.25	
						406.25	
	Contractor's profit & overhead				20%	81.25	
	Total Labour rate					487.50	488
	2. Material & equipment						
	Mortar 1:2	1.00	Cu.ft.		239.10	239.10	
	Shuttering				10%	23.91	
	Additive				5%	11.96	
	Mixing charges				20%	47.82	
						322.79	
	Contractor's profit & overhead				20%	64.56	
	Total Composite rate					874.85	875
	Item No. 5-41-1						
Each	Welding (electric) reinforcement with existing bars - joint length 2" to 3" (50mm to 75mm).						
	Rate analysis for welding 100 reinforcement bars						

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Welder	8.00 Hrs @	125.00	1000.00		
Contractor's profit & overhead		20%	200.00		
Total Labour rate			12.00		12
2. Material & equipment					
Welding plant	8.00 Hrs @	125.00	1000.00		
Welding Rods		90%	900.00		
			1900.00		
Contractor's profit & overhead		20%	380.00		
Total Composite rate			34.80		35
Item No. 5-42-1					
Sq.m.	Nicking hard cement concrete surface				
1. Labour					
Labourer	0.52 Hrs @	87.50	45.50		
			45.50		
Water Charges		1.5%	0.68		
			46.18		
Contractor's profit & overhead		20%	9.24		
Total Labour rate			55.42		55
Item No. 5-43					
Tonne	a) Providing, fabricating and laying mild steel Grade 36 (Plain bar) reinforcement for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or M.S. chairs for binding and holding the reinforcement in position is inclusive upto 15 ft (5m) height.				
1. Labour					
For straightening, cutting, bending:					
Steel mistri	1.00 Hrs @	87.50	87.50		
Steel fitter	8.00 Hrs @	125.00	1000.00		
Steel helper	8.00 Hrs @	87.50	700.00		
Labourer	8.00 Hrs @	87.50	700.00		
Steel cutter operator	0.50 Hrs @	87.50	43.75		
Steel helper	0.50 Hrs @	87.50	43.75		
	(For cutter)				
Steel bender operator	1.00 Hrs @	87.50	87.50		
Steel helper	1.00 Hrs @	87.50	87.50		
	(For bender)				
For shifting:					
Steel labour mate	1.00 Hrs @	87.50	87.50		
Labourer	2.00 Hrs @	87.50	175.00		
For removal of rust:					
Steel labour mate	2.00 Hrs @	87.50	175.00		
Labourer	2.00 Hrs @	87.50	175.00		
For fixing:					
Steel mistri	2.00 Hrs @	87.50	175.00		
Steel fixer	8.00 Hrs @	125.00	1000.00		
Steel helper	8.00 Hrs @	87.50	700.00		
Labourer	8.00 Hrs @	87.50	700.00		
For making chairs:					
Mason	2.00 Hrs @	125.00	250.00		
Steel helper	2.00 Hrs @	87.50	175.00		
For placing in position:					
Labourer	2.00 Hrs @	87.50	175.00		
Total			6537.50		
Contractor's profit & overhead		20%	1307.50		
Total Labour rate			7845.00		7,845
2. Material					
Mild Steel Bar G-36	1.00 Tonne @	82000	82,000		
Wastage		3%	2,050		
Overlaps		1.25%	1,025		
Spacers		1.25%	1,025		
Shuttering mould for chairs		1%	820		
Mortar for Chair(1:2)		2.5%	2,050		

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
	Binding wire	7.00	Kg.	@	90.00	630	
						89,600	
	3. Plant and Equipment						
	Steel bar cutting machine	1.00	Hrs	@	60.00	60	
	Steel bar bending machine	3.90	Hrs	@	60.00	234	
						294	
	Total of 2 & 3					89,894	
	Contractor's profit & overhead				20%	17978.80	
	Total Composite rate					115,717.80	115,718

Tonne b) Extra on item 5-43 (a) for overhead tanks at a height of 30 ft. (10m)

	1. Labour						
	Steel fixer	2.00	Hrs	@	125.00	250.00	
	Labourer	20.00	Hrs	@	87.50	1750.00	
						2000.00	
	Contractor's profit & overhead				20%	400.00	
	Total Labour rate					2400.00	2,400

Tonne c) Extra on item 5-43 (b) for every additional height of 3 ft. (1 m) or part thereof above 30 ft. (10 m) upto 50 ft. (15 m) height

	1. Labour						
	Labourer	16.00	Hrs	@	87.50	1400.00	
	Contractor's profit & overhead				20%	280.00	
	Total Labour rate					1680.00	1,680

Tonne d) Extra on item 5-43 (c) for every additional height of 3 ft. (1 m) or part thereof above 50 ft.(15 m) height

	1. Labour						
	Labourer	8.00	Hrs	@	87.50	700.00	
	Contractor's profit & overhead				20%	140.00	
	Total Labour rate					840.00	840

Tonne e) Deduct for every lesser height of 3 ft. (1 m) or part thereof below 30 ft. (10 m) height on item No.5-43(b)

	1. Labour						
	Labourer	16.00	Hrs	@	87.50	1400.00	
	Contractor's profit & overhead				20%	280.00	
	Total Labour rate					1680.00	1,680

Tonne f) Extra for first floor on Item No.5-43(a)

	1. Labour						
	Labourer	20.00	Hrs	@	87.50	1750.00	
	Contractor's profit & overhead				20%	350.00	
	Total Labour rate					2100.00	2,100

Tonne g) Extra for every additional floor above first floor on item No.5-43(f)

	1. Labour						
	Labourer	12.00	Hrs	@	87.50	1050.00	
	Contractor's profit & overhead				20%	210.00	
	Total Labour rate					1260.00	1,260

Item No. 5-44

Tonne a) Providing, fabricating and laying deformed Grade 40 steel reinforcement (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive upto 15 ft. (5m) height

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
	For straightening, cutting, bending:				
	Steel mistri	1.00	Hrs @	87.50	87.50
	Steel fitter	8.00	Hrs @	125.00	1000.00
	Steel helper	8.00	Hrs @	87.50	700.00
	Labourer	8.00	Hrs @	87.50	700.00
	Steel cutter operator	0.50	Hrs @	87.50	43.75
	Steel helper	0.50	Hrs @	87.50	43.75
	(For cutter)				
	Steel bender operator	1.00	Hrs @	87.50	87.50
	Steel helper	1.00	Hrs @	87.50	87.50
	(For bender)				
	For shifting:				
	Steel labour mate	1.00	Hrs @	87.50	87.50
	Labourer	2.00	Hrs @	87.50	175.00
	For removal of rust:				
	Steel labour mate	2.00	Hrs @	87.50	175.00
	Labourer	2.00	Hrs @	87.50	175.00
	For fixing:				
	Steel mistri	2.00	Hrs @	87.50	175.00
	Steel fixer	8.00	Hrs @	125.00	1000.00
	Steel helper	8.00	Hrs @	87.50	700.00
	Labourer	8.00	Hrs @	87.50	700.00
	For making chairs:				
	Mason	2.00	Hrs @	125.00	250.00
	Steel helper	2.00	Hrs @	87.50	175.00
	For placing in position:				
	Labourer	2.00	Hrs @	87.50	175.00
	Total				6537.50
	Same as item 5-43(a)				6537.50
	Contractor's profit & overhead			20%	1307.50
	Total Labour rate				<u>7845.00</u> 7,845
2. Material					
	Steel - deformed bars Grade 40	1.00	Tonne @	88,000	88,000
	Wastage			3%	2,640
	Overlaps			1%	880
	Spacers			1%	880
	Shuttering mould for chairs			1%	880
	Mortar for Chair(1:2)			1%	880
	Binding wire	7.00	Kg. @	90.00	630
					<u>94,790</u>
3. Plant and Equipment					
	Same as item 5-43(a)				294
	Total of 2 & 3				95,084
	Contractor's profit & overhead			20%	19,017
	Total Composite rate				<u>121,945.80</u> 121,946
Tonne b)	Extra on item 5-44 (a) for overhead tanks at a height of 30 ft. (10m)				
1. Labour					
	Same as item 5-43(b)				2000.00
	Contractor's profit & overhead			20%	400.00
	Total Labour rate				<u>2400.00</u> 2,400
Tonne c)	Extra on item 5-44 (b) for every additional height of 3 ft. (1 m) or part thereof above 30 ft. (10 m) upto 50 ft. (15 m) height				
1. Labour					
	Same as item 5-43(c)				1400.00
	Contractor's profit & overhead			20%	280.00
	Total Labour rate				<u>1680.00</u> 1,680
Tonne d)	Extra on item 5-44(c) for every additional height of 3 ft. (1 m) or part thereof above 50 ft.(15 m) height				
1. Labour					
	Same as item 5-43(d)				700.00

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Contractor's profit & overhead	20%	140.00	
	Total Labour rate		840.00	840
Tonne e)	Deduct for every lesser height of 3 ft. (1 m) or part thereof below 30 ft. (10m) height on item No.5-44(b)			
	1. Labour			
	Same as item 5-43(e)		1400.00	
	Contractor's profit & overhead	20%	280.00	
	Total Labour rate		1680.00	1,680
Tonne f)	Extra for first floor on Item No.5-44(a)			
	1. Labour			
	Same as item 5-43(f)		1750.00	
	Contractor's profit & overhead	20%	350.00	
	Total Labour rate		2100.00	2,100
Tonne g)	Extra for every additional floor above first floor on item No.5-44(f)			
	1. Labour			
	Same as item 5-43(g)		1050.00	
	Contractor's profit & overhead	20%	210.00	
	Total Labour rate		1260.00	1,260

Item No. 5-46

Providing and laying plum concrete using approved coarse sand and crushed aggregate 1-1/2"(38mm) & down gauge with 20% stones including levelling, compacting & curing.

Cu.m. a)	1 : 2 : 4							
	1. Labour							
	Same as in item 5-5(a)						2013.13	
	Contractor's profit & overhead		20%			402.63		
	Total Labour rate					2415.75		2,416
	2. Material							
	Crushed Aggregate Mix							
	Same as in item 5-5(a)	0.80	Cu.m.	@	4613.64	3690.92		
	Stone	0.20	Cu.m.	@	706.2	141.24		
						3832.16		
	3. Plant & Equipment including sundries and shuttering							
	Compaction effort	1.00	Hrs	@	175.00	175.00		
	Concrete mixer with operator - 5 Cu.ft.	0.43	Hrs	@	253.00	108.79		
	Sundaries and Shuttering				5%	205.80		
	Total of 2 & 3					4321.74		
	Contractor's profit & overhead				20%	864.35		
	Total Composite rate					7601.84		7,602
Cu.m. b)	1 : 3 : 6							
	1. Labour							
	Same as in item 5-5(a)						2013.13	
	Contractor's profit & overhead				20%	402.63		
	Total Labour rate					2415.75		2,416
	2. Material							
	Crushed Aggregate Mix							
	Same as in item 5-5(b)	0.80	Cu.m.	@	3509.04	2807.23		
	Stone	0.20	Cu.m.	@	706.2	141.24		

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
					2948.47		
	3. Plant & Equipment including sundries and shuttering						
	Compaction effort	1.00	Hrs	@	175.00	175.00	
	Concrete mixer with operator - 5 Cu.ft.	0.43	Hrs	@	253	108.79	
	Sundaries and Shuttering				5%	161.61	
	Total of 2 & 3					3393.88	
	Contractor's profit & overhead				20%	678.78	
	Total Composite rate					6488.40	6,488

Cu.m. c) 1 : 4 : 8

	1. Labour							
	Same as in item 5-5(a)						2013.13	
	Contractor's profit & overhead					20%	402.63	
	Total Labour rate						2415.75	2,416
	2. Material							
	Crushed Aggregate Mix							
	Same as in item 5-5(c)	0.80	Cu.m.	@	3141.32		2513.06	
	Stone	0.20	Cu.m.	@	706.2		141.24	
							2654.30	
	3. Plant & Equipment including sundries and shuttering							
	Compaction effort	1.00	Hrs	@	175.00		175.00	
	Concrete mixer with operator - 5 Cu.ft.	0.43	Hrs	@	253		108.79	
	Sundaries and Shuttering					5%	146.90	
	Total of 2 & 3						3084.99	
	Contractor's profit & overhead					20%	617.00	
	Total Composite rate						6117.74	6,118

Item No. 5-47

Providing and laying plum concrete using approved coarse sand and crushed aggregate 1-1/2" (38 mm) & down gauge with 30% boulders including levelling, compacting and curing.

Cu.m. a) 1 : 2 : 4

	1. Labour							
	Same as in item 5-5(a)						2013.13	
	Contractor's profit & overhead					20%	402.63	
	Total Labour rate						2415.75	2,416
	2. Material							
	Crushed Aggregate Mix							
	Same as in item 5-5(a)	0.70	Cu.m.	@	4613.64		3229.55	
	Stone	0.30	Cu.m.	@	706.2		211.86	
							3441.41	
	3. Plant & Equipment including sundries and shuttering							
	Compaction effort	1.00	Hrs	@	175.00		175.00	
	Concrete mixer with operator - 5 Cu.ft.	0.5	Hrs	@	175.00		87.50	
	Sundaries and Shuttering					5%	185.20	
	Total of 2 & 3						3889.11	
	Contractor's profit & overhead					20%	777.82	
	Total Composite rate						7082.68	7,083

Cu.m. b) 1 : 3 : 6

	1. Labour							
	Same as in item 5-5(a)						2013.13	
	Contractor's profit & overhead					20%	402.63	
	Total Labour rate						2415.75	2,416
	2. Material							
	Crushed Aggregate Mix							
	Same as in item 5-5(b)	0.70	Cu.m.	@	3509.04		2456.33	
	Stone	0.30	Cu.m.	@	706.2		211.86	
							2668.19	
	3. Plant & Equipment							
	Compaction effort	1.00	Hrs	@	175.00		175.00	

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
	Concrete mixer with operator - 5 Cu.ft.	0.5	Hrs	@	175.00	87.50
	Sundaries and Shuttering				5%	146.53
						409.03
	Total of 2 & 3					3077.22
	Contractor's profit & overhead				20%	615.44
	Total Composite rate					6108.42
						6,108
Cu.m. c)	1 : 4 : 8					
	1. Labour					
	Same as in item 5-5(a)					2013.13
	Contractor's profit & overhead				20%	402.63
	Total Labour rate					2415.75
						2,416
	2. Material					
	Crushed Aggregate Mix					
	Same as in item 5-5(c)	0.70	Cu.m.	@	3141	2198.93
	Stone	0.30	Cu.m.	@	706.2	211.86
	3. Plant & Equipment					
	Compaction effort	1.00	Hrs	@	175.00	175.00
	Concrete mixer with operator - 5 Cu.ft.	0.5	Hrs	@	175.00	87.50
	Sundaries and Shuttering				5%	133.66
	Total of 2 & 3					2806.95
	Contractor's profit & overhead				20%	561.39
	Total Composite rate					5784.09
						5,784
	Item No. 5- 48					
	Providing and laying plum concrete using approved coarse sand and crushed aggregate 1-1/2" (38 mm) & down gauge with 40% boulders including levelling, compacting and curing.					
Cu.m. a)	1 : 2 : 4					
	1. Labour					
	Same as in item 5-5(a)					2013.13
	Contractor's profit & overhead				20%	402.63
	Total Labour rate					2415.75
						2,416
	2. Material					
	Crushed Aggregate Mix					
	Same as in item 5-5(a)	0.60	Cu.m.	@	4613.64	2768.19
	Stone	0.40	Cu.m.	@	706.2	282.48
						3050.67
	3. Plant & Equipment					
	Compaction effort	1.00	Hrs	@	175.00	175.00
	Concrete mixer with operator - 5 Cu.ft.	0.5	Hrs	@	175.00	87.50
	Total of 2 & 3					3313.17
	sundries and shuttering				5%	286.45
	Contractor's profit & overhead				20%	719.92
	Total Composite rate					6735.28
						6,735
Cu.m. b)	1 : 3 : 6					
	1. Labour					
	Same as in item 5-5(a)					2013.13
	Contractor's profit & overhead				20%	402.63
	Total Labour rate					2415.75
						2,416
	2. Material					
	Crushed Aggregate Mix					
	Same as in item 5-5(b)	0.60	Cu.m.	@	3811.44	2286.87
	Stone	0.40	Cu.m.	@	706.2	282.48
						2569.35
	3. Plant & Equipment					
	Compaction effort	1.00	Hrs	@	175.00	175.00
	Concrete mixer with operator - 5 Cu.ft.	0.5	Hrs	@	175.00	87.50
	Total of 2 & 3					2831.85

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	sundries and shuttering	5%	161.72	
	Contractor's profit & overhead	20%	598.71	
	Total Composite rate		6008.03	6,008
Cu.m. c)	1 : 4 : 8			
	1. Labour			
	Same as in item 5-5(a)		2013.13	
	Contractor's profit & overhead	20%	402.63	
	Total Labour rate		2415.75	2,416
	2. Material			
	Crushed Aggregate Mix			
	Same as in item 5-5(c)	0.60	Cu.m. @ 3226.23	1935.74
	Stone	0.40	Cu.m. @ 706.2	282.48
	3. Plant & Equipment			
	Compaction effort	0.10	Hrs @ 175.00	17.50
	Concrete mixer with operator - 5 Cu.ft.	0.5	Hrs @ 175.00	87.50
	Total of 2 & 3			2323.22
	sundries and shuttering	5%	136.29	
	Contractor's profit & overhead	20%	491.90	
	Total Composite rate		5367.16	5,367

Item No. 5-49

Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, door band and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.

Cu.m. a) Plinth band

	1. Labour				
	Same as in item 5-13(a)			1292.38	
	Contractor's profit & overhead	20%	258.48		
	Total Labour rate		1550.85	1,551	
	2. Material			4971.92	
	Same as item 5-8(c)				
	3. Plant and Equipment			214.00	
	Same as item 5-5(a)				
	4. Shuttering				
	Band size 12" x 24" than length in Cu. M. = 35.31/2	17.66			
	Surface Area				
	Sides =			70.60	
	1 x 1x 17.65	4.00			
	2 x 1 x 2	74.60	@	25.00	1865.00
	5. Scaffolding	74.60	@	5.00	373.00
	Total of 2,3,4 & 5			7423.92	
	Contractor's profit & overhead	20%	1484.78		
	Total Composite rate		10459.56	10,460	

Cu.m. b) Door band

	1. Labour				
	Add 15% extra on item 5-48(a)			1486.23	
	Contractor's profit & overhead	20%	297.25		
	Total Labour rate		1783.48	1,784	
	2. Material			4971.92	
	Same as item 5-8(c)				
	3. Plant and Equipment			214.00	
	Same as item 5-5(a)				
	4. Shuttering				
	Same as item 5-48(a)			1865.00	
	5. Scaffolding				
	Same as item 5-48(a)			373.00	
	Total of 2,3,4 & 5			7423.92	

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Contractor's profit & overhead	20%	1484.78	
	Total Composite rate		10692.19	10,692
Cu.m. c)	Roof band			
	1. Labour			
	Add 15% extra on item 5-48(a)		1486.23	
	Contractor's profit & overhead	20%	297.25	
	Total Labour rate		1783.48	1,784
	2. Material			
	Same as item 5-8(c)		4971.92	
	3. Plant and Equipment			
	Same as item 5-5(a)		214.00	
	4. Shuttering			
	Add 15% extra on item 5-48(a)		2144.75	
	5. Scaffolding			
	Add 15% extra on item 5-48(a)		428.95	
	Total of 2,3,4 & 5		7759.62	
	Contractor's profit & overhead	20%	1551.92	
	Total Composite rate		11095.03	10,567
Cu.m. d)	Extra for Item 5-48 b & c above for first floor			
	1. Labour			
	15% on item 5-48(c)		222.93	
	Contractor's profit & overhead	20%	44.59	
	Total Labour rate		267.52	268
	2. Shuttering			
	5% on item 5-48(a)		93.25	
	3. Scaffolding			
	15% on item 5-48(a)		74.60	
	Total of 2 & 3		167.85	
	Contractor's profit & overhead	20%	33.57	
	Total Composite rate		468.94	469
Cu.m. e)	Extra for Item 5-48 b & c for every additional floor above first floor			
	1. Labour			
	7.5% on item 5-48(b)		111.47	
	Contractor's profit & overhead	20%	22.29	
	Total Labour rate		133.76	134
	2. Shuttering			
	7.5% on item 5-48(a)		139.88	
	3. Scaffolding			
	7.5% on item 5-48(a)		55.95	
	Total of 2 & 3		195.83	
	Contractor's profit & overhead	20%	39.17	
	Total Composite rate		368.75	369

Item No. 5-50-1

Cu.m. Providing and filling Asphalt bitumen mixed with sand at 90 lbs./cu.ft (1441.5kg/cu.m) of sand in expansion joints of roof slab.

Considering a joint .5" wide 6" deep and 960 ft in length.

Material

Total	960x.5x1/12x6x1/12	20.00	Cu.ft.			
Taking sand 50%	50% of 20	10.00	Cu.ft.	=	0.28	Cu.m.
Asphalt bitumen 80/100	90 x 10	900.00	Lbs.			

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Wastage @ 5%	45.00	Lbs.		
	Total	945.00	Lbs.	=	428.65
1. Labour					
Labourer		5.80	Hrs	@	87.50
	Contractor's profit & overhead				20%
	Total Labour rate				107.52
					108
2. Material					
Bitumen 80/100		428.65	Kg.	@	80.00
Sand local		0.28	Cu.m.	@	882.75
Fuel wood		95.00	Kg.	@	15.00
					35,966.94
3. Plant & Machinery					
Bitumen mixer with fuel & operator		1.45	Hrs	@	1750.00
Total					2,537.50
					38,504.44
	Contractor's profit & overhead				20%
	Total Composite rate				7,700.89
					46,205.32
					46,205

Item No. 5-51-1

Sq.m. Providing and fixing 4.89 kg/sq.m. aluminium sheet covering of approved shape and design to expansion joints of roof slabs with slotted holes with wooden gutties and screws.

Considering length of 10 R. ft.

Area	10 x 1	10.00	Sq.ft.		
Material					
Aluminium sheet	10 x 4.89 /10.76	4.54	Kg.		
1. Labour					
Total Labour rate	Same as in item 5.50				107.52
					108
2. Material					
Aluminium sheet		4.54	Kg.	@	255.00
Wooden guttees		20.00	No.	@	4.00
					1,157.70
					80.00
					1,237.70
	Contractor's profit & overhead				20%
	Total Composite rate				231.54
					1,688.42
					1,688

Item No. 5- 52-1

Sq.m. Providing and fixing 4.89 kg/sq.m. aluminium sheet covering of approved shape and design to expansion joints in walls and columns including providing clamps and fixing with screws and rawl plugs or wooden gutties including making slotted holes.

Considering length of 12 R.ft. 6" wide

Area	12 x 6/12	6.00	Sq.ft.		
Material					
Aluminium sheet	6 x 4.89 /10.76	2.73	Kg.		
1. Labour					
Black smith		0.20	Hrs	@	112.00
Mason		0.24	Hrs	@	125.00
Labourer		0.50	Hrs	@	87.50
					43.75
					73.75
	Contractor's profit & overhead				20%
	Total Labour rate				14.75
					158.71
					159
2. Material					
Aluminium sheet		2.97	Kg.	@	255.00
Wooden guttees		48.00	No.	@	4.00
					757.35
					192.00
					949.35
	Contractor's profit & overhead				20%
	Total Composite rate				151.47
					2,132.85
					2,133

Item No. 5-53-1

Sq.m. Providing and fixing 4.89 kg/sq.m. crimped copper sheet covering strips in vertical joints including punching slotted holes and fixing with wooden gutties or rawl plugs and screws.

Considering length of 12 R.ft. 6" wide

Area	12 x 6/12	6.00	Sq.ft.		
Material					
Copper sheet	6 x 4.89 /10.76	2.73	Kg.		
1. Labour					
Total Labour rate	Same as in item				58.22
					58

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
	2. Material						
	Copper sheet	2.37	Kg.	@	550.00	1,303.50	
	Wooden gutees	48.00	No.	@	4.00	192.00	
						1,495.50	
	Contractor's profit & overhead				20%	260.70	
	Total Composite rate					3,207.67	3,208
	Item No. 5-54-1						
Litre	Providing Super Placticizer Concrete Additives						
	Super Plastisizer	1.00	Liter	@	450.00	450.00	
	Mixing charges				10%	45.00	
						495.00	
	Contractor's profit & overhead				20%	99.00	
	Total Composite rate					594.00	594
	Item No. 5-55-1						
R.M.	Providing and fixing aluminium angle in corners with rawl plugs and aluminium screws.						
	1" x 1" x 1/8" size						
	Considering 12 R.ft aluminium angle iron						
	Al. angle corner	12' x 1/6 x 1.42	2.84	Lbs			
	Wastage 5%		0.14	Lbs			
			2.98	Lbs	=	1.35	Kg.
	1. Labour						
	Mason	0.55	Hrs	@	125.00	68.75	
	Helper	1.00	Hrs	@	75.00	75.00	
						143.75	
	Contractor's profit & overhead				20%	28.75	
	Total Labour rate					47.16	47
	2. Material						
	Aluminium angle/flat	1.00	Kg.	@	200.00	200.00	
	Other materials						
	Aluminium screw 1 1/2" size	24.00	No.	@	45.00	1,080.00	
	Rawal plug 1" long	24.00	No.	@	4.31	103.44	
	Sundries				5%	10.00	
						1,193.44	
						1,393.44	
	Contractor's profit & overhead				20%	278.69	
	Total Composite rate					504.35	504
	Item No. 5-56						
Cu.cm	Providing and fixing Elastomeric Bearing Pads (According to Size and Thickness)						
	a) Local						
	1. Labour						
	Labourer	0.01	Hrs	@	87.50	0.44	
						0.44	
	Contractor's profit & overhead				20%	0.09	
	Total Labour rate					0.53	0.55
	Elastomeric Bearing Pads (According to Size and Thickness) local	1.00	Cu.cm		1.50	1.50	
	Contractor's profit & overhead				20%	0.30	
	Total Co+D4125:E4135mposite rate					2.33	2.35
	b) Imported						
	1. Labour						
	Labourer	0.01	Hrs	@	87.50	0.44	
						0.44	
	Contractor's profit & overhead				20%	0.09	
	Total Labour rate					0.53	0.55
	Elastomeric Bearing Pads (According to Size and Thickness) Imported	1.00	Cu.cm		5.50	5.50	
	Contractor's profit & overhead				20%	1.10	
	Total Composite rate					7.13	7.15

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 5-57-1					
Kg.	Providing and laying Steel or Metal Bearing Devices				
1. Labour					
Black smith	1.00	Hrs	@	112.00	112.00
					112.00
Contractor's profit & overhead				20%	22.40
Total Labour rate					134.40
					134
Steel or Metal Bearing Devices	1.00	Kg	@	178.00	178.00
Contractor's profit & overhead				20%	35.60
Total Composite rate					348.00
					348
Item No. 5-58-1					
Sq.m.	Providing and Fixing Premoulded Joint Filler 12 Mm Thick With Bitumastic Joint Seal				
1. Labour					
Mason	0.75	Hrs	@	125.00	93.75
Labourer	1.00	Hrs	@	87.50	87.50
					181.25
Contractor's profit & overhead				20%	36.25
Total Labour rate					217.50
					218
2. Material					
Premoulded Joint Filler 12 Mm Thick With Bitumastic Joint Seal	1.00	Sq.m.		2,336.47	2,336.47
Contractor's profit & overhead				20%	467.29
Total Composite rate					3,021.26
					3,021
Sq.m.	Item No. 5-59-1				
	Providing and Fixing Neoprene Rubber Joint Filler 12 Mm Thick With Bitumastic Joint Seal				
1. Labour					
Mason	0.75	Hrs	@	125.00	93.75
Labourer	0.50	Hrs	@	87.50	43.75
					137.50
Contractor's profit & overhead				20%	27.50
Total Labour rate					165.00
					165
2. Material					
Neoprene Rubber Joint Filler 12 Mm Thick With Bitumastic Joint Seal	1.00	Sq.m.		1,070.94	1,070.94
Contractor's profit & overhead				20%	214.19
Total Composite rate					1,450.13
					1,450
Kg	Item No. 5-60-1				
	Providing and Fixing Steel Expansion Joints (Local)				
1. Labour					
Steel fixer	0.15	Hrs	@	125.00	18.75
Labourer	0.15	Hrs	@	87.50	13.13
					31.88
Contractor's profit & overhead				20%	6.38
Total Labour rate					38.25
					38
2. Material					
Steel Expansion Joints (Local)	1.00	Sq.m.		181.39	181.39
Contractor's profit & overhead				20%	36.28
Total Composite rate					255.92
					256
Kg	Item No. 5-61-1				
	Providing and Fixing Expansion Joint With Two Extruded Aluminium Alloy Sections For 50mm Movement (USA/EU Make)				
1. Labour					
Steel fixer	4.00	Hrs	@	125.00	500.00
Labourer	8.00	Hrs	@	87.50	700.00
					1200.00
Contractor's profit & overhead				20%	240.00
Total Composite rate					1440.00
					1,440

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Expansion Joint With Two Extruded Aluminium Alloy Sections For 50mm Movement (USA/EU Make)	1.00	Sq.m.	47,750.00	47,750.00	
	Contractor's profit & overhead			20%	9,550.00	
	Total Composite rate				58,740.00	58,740
	Item No. 5-62-1					
RM	Providing and Fixing Expansion Joint With Cast Aluminium Alloy Triangular Teeth For 110mm Movement (USA/EU Make)					
	1. Labour					
	Steel fixer	4.00	Hrs	@	125.00	500.00
	Labourer	6.00	Hrs	@	87.50	525.00
						1025.00
	Contractor's profit & overhead			20%	205.00	
	Total Labour rate				1230.00	1,230
	Expansion Joint With Cast Aluminium Alloy Triangular Teeth For 110mm Movement (USA/EU Make)	1.00	Sq.m.	120,000.00	120,000.00	
	Contractor's profit & overhead			20%	24,000.00	
	Total Composite rate				145,230.00	145,230
	Item No. 5-63-1					
RM	Providing and Fixing Expansion Joint With Cast Aluminium Alloy Cantilever Teeth For 300mm Movement (USA/EU Make)					
	1. Labour					
	Steel fixer	6.00	Hrs	@	125.00	750.00
	Labourer	8.00	Hrs	@	87.50	700.00
						1450.00
	Contractor's profit & overhead			20%	290.00	
	Total Labour rate				1740.00	1,740
	Expansion Joint With Cast Aluminium Alloy Cantilever Teeth For 300mm Movement (USA/EU Make)	1.00	Sq.m.	400,000.00	400,000.00	
	Contractor's profit & overhead			20%	80,000.00	
	Total Composite rate				481,740.00	481,740
	Item No. 5-64-1					
RM	Providing and Fixing Expansion Joint Monobloc Type For 65mm Movement (USA/EU Make)					
	1. Labour					
	Steel fixer	2.00	Hrs	@	125.00	250.00
	Labourer	4.00	Hrs	@	87.50	350.00
						600.00
	Contractor's profit & overhead			20%	120.00	
	Total Labour rate				720.00	720
	2. Material					
	Expansion Joint Monobloc Type For 65mm Movement (USA/EU Make)	1.00	Sq.m.	44,500.00	44,500.00	
	Contractor's profit & overhead			20%	8,900.00	
	Total Composite rate				54,120.00	54,120

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Item No. 5-65			
Tonne a)	Providing, fabricating and laying deformed Grade 60 steel reinforcement (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive upto 15 ft. (5m) height		
	1. Labour		
	For straightening, cutting, bending:		
	Steel mistri	1.00 Hrs @	87.50 87.50
	Steel fitter	8.00 Hrs @	125.00 1000.00
	Steel helper	8.00 Hrs @	87.50 700.00
	Steel cutter operator	0.50 Hrs @	87.50 43.75
	Steel helper	0.50 Hrs @	87.50 43.75
	(For cutter)		
	Steel bender operator	1.00 Hrs @	87.50 87.50
	Steel helper	1.00 Hrs @	87.50 87.50
	(For bender)		
	For shifting:		
	Steel labour mate	1.00 Hrs @	87.50 87.50
	Labourer	2.00 Hrs @	87.50 175.00
	For removal of rust:		
	Steel labour mate	2.00 Hrs @	87.50 175.00
	Labourer	2.00 Hrs @	87.50 175.00
	For fixing:		
	Steel mistri	2.00 Hrs @	87.50 175.00
	Steel helper	8.00 Hrs @	87.50 700.00
	Labourer	8.00 Hrs @	87.50 700.00
	For making chairs:		
	Mason	2.00 Hrs @	125.00 250.00
	Steel helper	2.00 Hrs @	87.50 175.00
	For placing in position:		
	Labourer	2.00 Hrs @	87.50 175.00
	Total		4837.50
	Same as item 5-43(a)		6537.50
	Contractor's profit & overhead	20%	1307.50
	Total Labour rate		<u>7845.00</u> 7,845
	2. Material		
	Steel - deformed bars Grade 60	1.00 Tonne @	93,000 93,000
	Wastage		3% 2,790
	Overlaps		1% 930
	Spacers		1% 930
	Shuttering mould for chairs		1% 930
	Mortar for Chair(1:2)		1% 930
	Binding wire	7.00 Kg. @	90.00 630
			<u>100,140</u>
	3. Plant and Equipment		
	Same as item 5-43(a)		294
	Total of 2 & 3		100,434
	Contractor's profit & overhead	20%	20,087
	Total Composite rate		<u>128,365.80</u> 128,366
Tonne b)	Extra on item 5-65 (a) for overhead tanks at a height of 30 ft. (10m)		
	1. Labour		
	Same as item 5-65(b)		2000.00
	Contractor's profit & overhead	20%	400.00
	Total Labour rate		<u>2400.00</u> 2,400
Tonne c)	Extra on item 5-65 (b) for every additional height of 3 ft. (1 m) or part thereof above 30 ft. (10 m) upto 50 ft. (15 m) height		
	1. Labour		
	Same as item 5-65(c)		1400.00
	Contractor's profit & overhead	20%	280.00
	Total Labour rate		<u>1680.00</u> 1,680
Tonne d)	Extra on item 5-65(c) for every additional height of 3 ft. (1 m) or part thereof above 50 ft.(15 m) height		
	1. Labour		

Unit	Description	Component Cost		Unit Rate			
		(Rs)		(Rs)			
	Same as item 5-65(d)			700.00			
	Contractor's profit & overhead		20%	140.00			
	Total Labour rate			840.00	840		
Tonne	e) Deduct for every lesser height of 3 ft. (1 m) or part thereof below 30 ft. (10m) height on item No.5-65(b)						
	1. Labour						
	Same as item 5-65(e)			1400.00			
	Contractor's profit & overhead		20%	280.00			
	Total Labour rate			1680.00	1,680		
Tonne	f) Extra for first floor on Item No.5-65(a)						
	1. Labour						
	Same as item 5-65(f)			1750.00			
	Contractor's profit & overhead		20%	350.00			
	Total Labour rate			2100.00	2,100		
Tonne	g) Extra for every additional floor above first floor on item No.5-65(f)						
	1. Labour						
	Same as item 5-65(g)			1050.00			
	Contractor's profit & overhead		20%	210.00			
	Total Labour rate			1260.00	1,260		
	Item No. 5-66						
RM	a) Providing and Fixing 1.5" x 3/4 " Expansion Joint with one Component Polyurethane Fuel Resistant Sealant including 40 mm Baker rod and One coat of primer but without Aluminium or Steel cover.						
	1. Labour						
	Mason	0.50	Hrs	@	125.00	62.50	
	Labourer	1.00	Hrs	@	87.50	87.50	
						150.00	
	Contractor's profit & overhead			20%		30.00	
	Total Labour rate					180.00	180
	1.5" x 3/4 " Expansion Joint with one Component Polyurethane Fuel Resistant Sealant including 40 mm Baker rod and One coat of primer	1.00	RM	@	885.60	885.60	
	Contractor's profit & overhead			20%		177.12	
	Total Composite rate					1,242.72	1,243
RM	b) Providing and Fixing 2.0" x 1 " Expansion Joint with one Component Polyurethane Fuel Resistant Sealant including 50 mm Baker rod and One coat of primer but without Aluminium or Steel cover.						
	1. Labour						
	Mason	0.50	Hrs	@	125.00	62.50	
	Labourer	1.00	Hrs	@	87.50	87.50	
						150.00	
	Contractor's profit & overhead			20%		30.00	
	Total Labour rate					180.00	180
	2.0" x 1 " Expansion Joint with one Component Polyurethane Fuel Resistant Sealant including 50 mm Baker rod and One coat of primer	1.00	RM	@	1,312.00	1,312.00	
	Contractor's profit & overhead			20%		262.40	
	Total Composite rate					1,754.40	1,754

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)

Item No. 6-1-1

Ton Providing and pre-stressing 1/2" (12.5 mm) dia. wire strand including cost of cable, Anchorage cone sets, corrugated steel sheath duct, PE grout vents, PE grout tube, PVC wrapping tape, steel binding wire, cement grout and grout additive as per specifications including all arrangements, supply of recorded data in triplicate as per direction of the Engineer in charge

Cost for 1.12 ton

1. Labour

Foreman	8.00	Hrs	@	125.00	1,000.00	
Black smith	24.00	Hrs	@	112.00	2,688.00	
Skilled worker	16.00	Hrs	@	125.00	2,000.00	
Semi skilled worker	24.00	Hrs	@	110.00	2,640.00	
Total					8,328.00	
Contractor's profit & overhead				20%	1,665.60	
Total					9,993.60	
Total Labour rate					8,922.86	8,923

2. Material

Cable	1.12	Ton	@	112,000	125,440	
Anchorage Cone sets with wedges	8.00	No.	@	3,300	26,400	
Corrugated Steel Sheath duct	110.00	R.M.	@	45	4950.00	
PE Grout vents	4.00	No.	@	50	200	
PE Grout Tube	15.00	R.M.	@	47	705.00	
PVC wrapping tape roll	4.00	No.	@	70	280	
Binding Wire	6.00	Kg	@	90	540	
Cement OPC	0.67	M.Ton	@	10,500	7,035	
Grout additive	3.20	Kg	@	490	1,568	
					167,118	
3. Plant & Equipment				30%	50,135	
Total of 2 & 3					217,253	
Contractor's profit & overhead				20%	43,451	
Total					260,704	
Total Composite rate		Per Ton of strands			241,694	241,694

Item No. 6-2-1

Ton Launching and placing of Precast/ Pre-stressed Girder including all arrangements as per direction of the Engineer in charge

1. Labour

Skilled worker	2.00	Hrs	@	125.00	250.00	
Contractor's profit & overhead				20%	50.00	
Total Labour rate					300.00	300

3. Plant & Equipment

		L.S.		425.00	425.00	
Contractor's profit & overhead				20%	85.00	
Total					510.00	
Total Composite rate		Per Ton of Girder			810.00	810

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)

Item No. 6-3-1

Sq.m. Supplying, fabricating and fixing formwork in prestressed concrete beams of all sections including removal of formwork (Wooden, Steel or Poly Vinyl)

1. Labour

Labour for making panels

Carpenter	20.00	Hrs	@	125.00	2,500
Helper	20.00	Hrs	@	75.00	1,500
Total for 10 operations					4,000
Rate for one operation					400.00
Cost of making platform Item 5-27(4)b	4.33	x 145 / 60			10.46
					410.46
-Repair charge for each operation				10%	41.05
-Oiling and greasing				5%	20.52
-Steel ties				6%	24.63
-Labour for erecting and removing formwork:					
Carpenter	6.00	Hrs	@	125.00	750.00
Helper	12.00	Hrs	@	75.00	900.00
					2146.66
Rate for Sq.m.	A / 104 x 10.76				222.10
Contractor's profit & overhead				20%	44.42
Total Labour rate					266.52

267

2. Material

Taking size of beam 25' x 1' x 2'

Surface Area

Sides	2 x 25 x 2	100	Sq.ft.		
	2 x 2 x 1	4	Sq.ft.	104.00	
		104	Sq.ft.		
a) Partial wood sides	2 x 25 x 2 x 1/12	8.33	Cu.ft.		
	2 x 2 x 1 x 1/12	0.33	Cu.ft.		
		8.67			
b) Binder sides	12 x 2 x 1 / 6 x 1 / 3	1.33	Cu.ft.		
Spreaders	6 x 7 / 6 x 16 x 1 / 3	0.39	Cu.ft.		
		1.72			
Total of a & b		10.39	Cu.ft.		
Wastage	30%	3.12	Cu.ft.		
Wood - Partial		13.50	Cu.ft.	@	1200.00
Sawing charges		13.50	Cu.ft.	@	87.50
G.I. Sheet		104			
Wastage	10%	10			
		114	Sq.ft.		
G.I. sheet		37	Kg.	@	130.00
Nails				6.5%	312.65
Sundries				6.5%	312.65
Total for 10 operations					22,819.98
Rate for one operation per Sq.m.					236.10
Contractor's profit & overhead				20%	47.22
Total Composite rate					549.83

550**Item No. 6-4**

Providing and laying reinforced cement concrete using crushed aggregate 19mm and down gauge in the prestressed concrete work, compacting with vibrator and curing but excluding the cost of reinforcement and shuttering.

Cu.m. a) 1 : 1 : 2

1. Labour

Mason	2.75	Hrs	@	125.00	343.75
Labourer	14.25	Hrs	@	87.50	1,246.88
Bahishti	4.25	Hrs	@	87.50	371.88
Mistri	0.50	Hrs	@	110.00	55.00
					2,017.50
Contractor's profit & overhead				20%	403.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		2,421.00	2,421
	2. Material			
	Same as item 5-8(a)		7,470.22	
	3. Plant & Equipment			
	Same as item 5-5(a)		214.00	
	Total of 2 & 3		7,684.22	
	Contractor's profit & overhead	20%	1,536.84	
	Total Composite rate		11,642.06	11,642

Cu.m. b) 1 : 1.5 : 3

	1. Labour			
	Same as item 6-4(a)		2,017.50	
	Contractor's profit & overhead	20%	403.50	
	Total Labour rate		2,421.00	2,421
	2. Material			
	Same as item 5-8(b)		5,894.49	
	3. Plant & Equipment			
	Same as item 5-5(a)		214.00	
	Total of 2 & 3		6,108.49	
	Contractor's profit & overhead	20%	1,221.70	
	Total Composite rate		9,751.19	9,751

Cu.m. c) 1 : 2 : 4

	1. Labour			
	Same as item 6-4(a)		2,017.50	
	Contractor's profit & overhead	20%	403.50	
	Total Labour rate		2,421.00	2,421
	2. Material			
	Same as item 5-8(c)		4,971.92	
	3. Plant & Equipment			
	Same as item 5-5(a)		214.00	
	Total of 2 & 3		5,185.92	
	Contractor's profit & overhead	20%	1,037.18	
	Total Composite rate		8,644.11	8,644

Item No. 6-5

One Job a) Making good requisite anchorage recesses with cement concrete 1:1:2 using crushed aggregate of approved size including formwork and its removal and cutting.

Detail of cost per 100 Nos.

Concrete

Assumed block out for anchorage recess:

1.0 x 1.0 x 0.25 x 100 25.00 Cu.ft. = 0.71 Cu.m.

1. Labour

Rate same as in item 6-4(a) 0.71 Cu.m. @ 2017.50 1432.43

Contractor's profit & overhead 20% 286.49

Total Labour rate 17.19 style="border: 1px solid black;">17

2. Material

Concrete rate same as item 5-8(a) 0.71 Cu.m. @ 7470.22 5303.85

Epoxy 50% 2651.93

3. Shuttering

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
	Surface area taking 3" overlap on all sides 1.25 x 1.25 x 100 x 1 / 10.76	14.52	Sq.m.	@	484.65	7037.75	
	4. Plant & Equipment Rate same as item 5-5(a)	0.71	Cu.m.	@	214.00	151.94	
	5 Sundries				8%	424.31	
	Total of 2, 3, 4 & 5					15569.78	
	Contractor's profit & overhead				20%	3113.96	
	Total Composite rate					204.03	204

Item No. 6-6

Stacking post tensioned precast beams and slabs upto lead of 500 ft (150 m) including loading and unloading

Cu.m. a) Upto 50 ft. (15.25 m) length

1. Labour						
Heavy load lifter	3.75	Hrs	@	87.50	328.13	
Contractor's profit & overhead				20%	65.63	
Total Labour rate					393.75	394

2. T&P hire charges

Crane 3 ton capacity	0.40	Hrs	@	400.00	160.00	
3. Sundries				2%	9.76	
Total of 2 & 3					169.76	
Contractor's profit & overhead				20%	33.95	
Total Composite rate					597.47	597

Cu.m. b) Above 50 ft. (15.25 m) length

1. Labour						
Heavy load lifter	4.75	Hrs	@	87.50	415.63	
Contractor's profit & overhead				20%	83.13	
Total Labour rate					498.75	499

2. T&P hire charges

Crane 3 ton capacity	0.40	Hrs	@	400.00	160.00	
3. Sundries				2%	11.51	
Total of 2 & 3					171.51	
Contractor's profit & overhead				20%	34.30	
Total Composite rate					704.57	705

Item No. 6-7

Hoisting post tensioned precast beams and slabs by mechanical means upto lift of 18 ft (5.5 m) above ground level and placing in position

Cu.m. a) Upto 50 ft. (15.25 m) length

1. Labour						
Heavy load lifter	2.50	Hrs	@	87.50	218.75	
Contractor's profit & overhead				20%	43.75	
Total Labour rate					262.50	263

2. T&P hire charges

Crane 3 ton capacity	0.40	Hrs	@	400.00	160.00	
3. Sundries				2%	7.58	
Total of 2 & 3					167.58	
Contractor's profit & overhead				20%	33.52	
Total Composite rate					463.59	464

Cu.m. b) Extra for every 12 ft. (3.75m) additional lift or part thereof on item 6-7(a) above

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Heavy load lifter	2.00	Hrs @	87.50	175.00
	Contractor's profit & overhead			20%	35.00
	Total Labour rate				<u>210.00</u> 210
	2. T&P hire charges				
	Crane 3 ton capacity	0.15	Hrs @	400.00	60.00
	Contractor's profit & overhead			20%	12.00
	Total Composite rate				<u>282.00</u> 282
	c) Above 50 ft. (15.25 m) length				
Cu.m.	1. Labour				
	Heavy load lifter	3.00	Hrs @	87.50	262.50
	Contractor's profit & overhead			20%	52.50
	Total Labour rate				<u>315.00</u> 315
	2. T&P hire charges				
	Crane 10 ton capacity	0.40	Hrs @	1410.00	564.00
	3. Sundries			2%	16.53
	Total of 2 & 3				<u>580.53</u>
	Contractor's profit & overhead			20%	116.11
	Total Composite rate				<u>1,011.64</u> 1,012
Cu.m. d)	Extra for every 12 ft. (3.75m) additional lift or part thereof on item 6-7(c) above				
	1. Labour				
	Heavy load lifter	2.50	Hrs @	87.50	218.75
	Contractor's profit & overhead			20%	43.75
	Total Labour rate				<u>262.50</u> 263
	2. T&P hire charges				
	Crane 10 ton capacity	0.16	Hrs @	1410.00	228.42
	Contractor's profit & overhead			20%	45.68
	Total Composite rate				<u>536.60</u> 537
	Item No. 6-8				
Cu.m.	Providing and laying in position ready mixed concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified strength for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per mix design to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.				
	a 3000 Psi				
	1) Labour				
	Foreman	0.40	Hrs @	125.00	50.00
	Supervisor	0.48	Hrs @	140.00	67.20
	Assistant Supervisor	0.30	Hrs @	115.00	34.50
	Surveyor	0.40	Hrs @	140.00	56.00
	Mason	1.28	Hrs @	125.00	160.00
	Carpenter	4.80	Hrs @	125.00	600.00
	Helper	12.00	Hrs @	75.00	900.00
	Labourer	1.60	Hrs @	87.50	140.00
					<u>2,007.70</u>
	Contractor's profit & overhead			20%	401.54

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Total Labor		2,409.24		2,409	
2) Material					
Approved Coarse Sand	0.44 Cu.m.	@	1,059.30	466.09	
Approved Crushed Aggregate 3/4" -3/8"	0.28 Cu.m.	@	1,296.75	363.09	
Approved Crushed Aggregate 1/2" & down gauge	0.66 Cu.m.	@	1,235.00	815.10	
Cement OPC	0.31 M.Ton	@	10500.00	3,265.50	
Water	0.65 Litre	@	5.00	3.25	
3) Plant & Equipment					
Water tanker, 1000 gallon capacity	0.16 Hrs	@	583.00	93.28	
Concrete Batching Plant (30 Cum/Hr.)	0.12 Hrs	@	2575.00	309.00	
Concrete Transit Mixer (6 cum)	0.96 Hrs	@	1676.00	1,608.96	
Pump including POL with driver	0.16 Hrs	@	300.00	48.00	
Vibrator including operator	0.32 Hrs	@	175.00	56.00	
Concrete Pump	0.16 Hrs	@	1509.00	241.44	
Total of 2 & 3				7,269.71	
Contractor's profit & overhead		20%		1,453.94	
Total Composite rate				11,132.89	11,133
b 4000 Psi					
1) Labour					
Foreman	0.40 Hrs	@	125.00	50.00	
Supervisor	0.48 Hrs	@	140.00	67.20	
Assistant Supervisor	0.30 Hrs	@	115.00	34.50	
Surveyor	0.40 Hrs	@	140.00	56.00	
Mason	1.28 Hrs	@	125.00	160.00	
Carpenter	4.80 Hrs	@	125.00	600.00	
Helper	12.00 Hrs	@	75.00	900.00	
Labourer	1.60 Hrs	@	87.50	140.00	
				2,007.70	
Contractor's profit & overhead		20%		401.54	
Total Labor		2,409.24		2,409	
2) Material					
Approved Coarse Sand	0.42 Cu.m.		1,059.30	444.91	
Approved Crushed Aggregate 3/4" -3/8"	0.21 Cu.m.		1,296.75	272.32	
Approved Crushed Aggregate 1/2" & down gauge	0.63 Cu.m.		1,235.00	778.05	
Cement OPC	0.40 M.Ton		10,500.00	4,158.00	
Water	0.28 Litre		5.00	1.40	
3) Plant & Equipment					
Water tanker, 1000 gallon capacity	0.16 Hrs	@	583.00	93.28	
Concrete Batching Plant (30 Cum/Hr.)	0.12 Hrs	@	2575.00	309.00	
Concrete Transit Mixer (6 cum)	0.96 Hrs	@	1676.00	1,608.96	
Pump including POL with driver	0.16 Hrs	@	300.00	48.00	
Vibrator including operator	0.32 Hrs	@	175.00	56.00	
Concrete Pump	0.16 Hrs	@	1509.00	241.44	
Total of 2 & 3				8,011.35	
Contractor's profit & overhead		20%		1,602.27	
Total Composite rate				12,022.86	12,023
c 5000 Psi					
1) Labour					
Foreman	0.40 Hrs	@	125.00	50.00	

Unit	Description			Component Cost		Unit Rate
				(Rs)	(Rs)	(Rs)
	Supervisor	0.48	Hrs	@	140.00	67.20
	Assistant Supervisor	0.30	Hrs	@	115.00	34.50
	Surveyor	0.40	Hrs	@	140.00	56.00
	Mason	1.28	Hrs	@	125.00	160.00
	Carpenter	4.80	Hrs	@	125.00	600.00
	Helper	12.00	Hrs	@	75.00	900.00
	Labourer	1.60	Hrs	@	87.50	140.00
						2,007.70
	Contractor's profit & overhead				20%	401.54
	Total Labor					2,409.24
						2,409
	2) Material					
	Approved Coarse Sand	0.39	Cu.m.	@	1,059.3	413.13
	Approved Crushed Aggregate 3/4" -3/8"	0.19	Cu.m.	@	1,296.8	246.38
	Approved Crushed Aggregate 1/2" & down gauge	0.58	Cu.m.	@	1,235.0	716.30
	Cement OPC	0.54	M.Ton	@	10,500.0	5,712.00
	Super Plastisizer	2.50	Litre	@	450.00	1,125.00
	Water	2.49	Litre	@	5.0	12.45
	3) Plant & Equipment					
	Water tanker, 1000 gallon capacity	0.16	Hrs	@	583.00	93.28
	Concrete Batching Plant (30 Cum/Hr.)	0.12	Hrs	@	2575.00	309.00
	Concrete Transit Mixer (6 cum)	0.96	Hrs	@	1676.00	1,608.96
	Pump including POL with driver	0.16	Hrs	@	300.00	48.00
	Vibrator including operator	0.32	Hrs	@	175.00	56.00
	Concrete Pump	0.16	Hrs	@	1509.00	241.44
	Total of 2 & 3					10,581.94
	Contractor's profit & overhead				20%	2,116.39
	Total Composite rate					15,107.57
						15,108
	Item No. 6-9					
Job	load testing (initial) of piles including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and					
	a) up to 50 tonne capacity pile					
	Pile load Test (50)	1.00	Job	@	150000.00	150,000.00
	Contractor's profit & overhead				20%	30,000.00
	Total Composite rate					181,125.00
						181,125
	b) 50 to 100 tonne capacity pile					
	Pile load Test (50-100)	1.00	Job	@	200000.00	200,000.00
	Contractor's profit & overhead				20%	40,000.00
	Total Composite rate					240,048.00
						240,048
	c) 100 to 150 tonne capacity pile					
	Pile load Test (100-150)	1.00	Job	@	250000.00	250,000.00
	Contractor's profit & overhead				20%	50,000.00
	Total Composite rate					300,000.00
						300,000
	d) 150 to 200 tonne capacity pile					
	Pile load Test (150-200)	1.00	Job	@	300000.00	300,000.00
	Contractor's profit & overhead				20%	60,000.00
	Total Composite rate					510,000.00
						510,000

Unit	Description	Comp.t	Unit
		Cost	Rate
		(Rs)	(Rs)

Item No. 7-1

Cu.m. a) Providing and laying concrete for bored cast in situ piles by tremie pipe or skip bucket using Coarse sand and Crushed Aggregate 3/4" (19mm) & down gauge in dense homogeneous concrete nominal mix 1:1.33:2.66 having cube crushing strength of 34.5 N/mm² at 28 days. The concrete in the piles is to be measured by multiplying the cross-sectional area of the pile by the length of pile as cast, from the head to the butt of the shoe. Reinforcement & boring of pile is to be measured for payment separately.

Concrete	1.00	Cu.m.			
Volume increased due to enlarged base and bulging.	1.15	Cu.m.			
1. Labour					
Skilled worker	1.05	Hrs	@	125	131.25
Labourer	12.00	Hrs	@	88	1050.00
Bahishti	5.00	Hrs	@	88	437.50
Mistri	0.35	Hrs	@	110	38.50
Sundries				20%	331.45
					1988.70
Contractor's profit & overhead				20%	397.74
Total Labour rate					2386.44
					2,386
2. Material					
Concrete	1.55 x 1.15	1.78	Cu.m.		
Cement OPC	1.78 x 1440 / 4.99 / 1000	0.51	M.Ton	@	10500.00
Approved Coarse Sand	1.78 x 1.33 / 4.99	0.48	Cu.m.	@	1059.30
Crush	1.78 x 2.66 / 4.99	0.95	Cu.m.	@	1296.75
Water Charges				1.5%	107.09
					7245.60
3. Plant & Equipment					
Concrete mixer with operator - 5 Cu.ft.	0.38	Hrs	@	253.00	96.14
Crane 3 ton capacity	0.38	Hrs	@	400.00	152.00
Skip bucket	0.38	Hrs	@	30.00	11.40
Sundries				5%	12.98
					272.52
Total of 2 & 3					7518.11
Contractor's profit & overhead				20%	1503.62
Total Composite rate					11408.18
					11,408

Cu.m. b) Extra if 1 : 1 : 2 mix is used in item 7-1(a) above

Cost of material for 1 : 1 : 2 as in item 5-8(a)					7470.22
Coarse sand as in item 5-10	0.77	Cu.m.	@	176.55	135.94
					135.94
Water Charges				1.5%	2.04
Total					7608.20
Increase due to enlarged base/ bulb and bulging				15%	1141.23
					8749.43
Cost of material in 1 : 1.33 : 2.66 as in item 7-1(a)					7245.60
Difference in cost					1503.83
Contractor's profit & overhead				20%	300.77
Total Composite rate					1804.60
					1,805

Cu.m. c) Deduct if 1 : 2 : 4 mix is used in item 7-1(a) above

Cost of material for 1 : 2 : 4 as in item 5-8(c)					4971.92
Coarse sand as in item 5-10	0.88	Cu.m.	@	176.55	155.36
					155.36
Water Charges				1.5%	2.33
Total					5129.62
Increase due to enlarged base/ bulb and bulging				15%	769.44
					5899.06

Unit	Description	Comp.t	Unit
		Cost	Rate
		(Rs)	(Rs)
	Cost of material in 1 : 1.33 : 2.66 as in item 7-1(a)	7245.60	
	Difference in cost	1346.54	
	Contractor's profit & overhead	269.31	
	Total Composite rate	1615.84	1,616

Item No. 7-2-1**Cu.m. Cutting of top of RCC piles of any size including chiseling, dismantling, straightening the steel and disposal**

1. Labour

Labour rate for dismantling same as for item 4-20

1050.00

Extra labour for chiselling

Labourer

18.00

Hrs

@

87.50

1575.00

Sundries

10%

157.50

Total

1732.50

Contractor's profit & overhead

20%

346.50

Total Labour rate

2079.00

2,079

2. Machinery

Jack hammer and air compressor as for item 4-20

104.88

Contractor's profit & overhead

20%

20.98

Total Composite rate

2204.86

2,205**Item No. 7-3-1****Tonne Providing and laying for cast in situ RCC piles Deformed G-40 steel reinforcement bars with and including the cost of straightening, removing rust, cutting, bending, binding, welding, wastage, overlaps as are not shown on the drawings. The cost of binding wire and holding the reinforcement in position is inclusive.**

1. Labour

Straightening, cutting, bending, binding etc.

Steel mistri

2.00

Hrs

@

87.50

175.00

Steel fitter

8.00

Hrs

@

125.00

1000.00

Steel helper

8.00

Hrs

@

87.50

700.00

Labourer

8.00

Hrs

@

87.50

700.00

Steel cutter operator

1.00

Hrs

@

87.50

87.50

Steel bender operator

1.00

Hrs

@

87.50

87.50

Helper

2.00

Hrs

@

75.00

150.00

Shifting

Steel labour mate

4.00

Hrs

@

87.50

350.00

Labourer

4.00

Hrs

@

87.50

350.00

Removal of rust

Steel labour mate

2.00

Hrs

@

87.50

175.00

Labourer

4.00

Hrs

@

87.50

350.00

Making Cages

Steel mistri

5.00

Hrs

@

87.50

437.50

Steel fixer

10.00

Hrs

@

125.00

1250.00

Steel helper

4.00

Hrs

@

87.50

350.00

Labourer

2.00

Hrs

@

87.50

175.00

6337.50

Contractor's profit & overhead

20%

1267.50

Total Labour rate

7605.00

7,605

2. Material

Steel - deformed bars Grade 40

1.10

Tonne

@

88000.00

96800

Wastage

5%

4840

Overlaps

1.25%

1210

Binding wire

7.00

Kg.

@

90.00

630

103480

3. Plant and Equipment

Steel bar cutting machine

1.00

Hrs

@

60.00

60

Unit	Description	Comp.t		Unit	
		Cost		Rate	
		(Rs)		(Rs)	
	Steel bar bending machine	1.00	Hrs @	60.00	60
	Crane 3 ton capacity	2.00	Hrs @	400.00	800
	(haulage, placing in position and idle hours etc.)				920
	4. Welding				
	Welding joints	1400	Nos. @	5.50	7700
	5. Sundries			1%	1184
	Total of 2, 3, 4 & 5				113284
	Contractor's profit & overhead			20%	22657
	Total Composite rate				143546
					143,546

Item No. 7-4-1

Tonne

Providing and laying for cast in situ RCC piles intergraded deformed reinforcement G-60 with and including the cost of straightening, removing rust, cutting, bending, binding, welding, wastage, overlaps as are not shown on the drawings. The cost of binding wire and holding the reinforcement in position is inclusive.

1. Labour

Same as item 7-3

Contractor's profit & overhead

Total Labour rate

6337.50

20% 1267.50

7605.00

7,605

2. Material

Steel - deformed bars Grade 60

Wastage

Overlaps

Binding wire

1.00

Tonne

@

93000.00

93000

3%

2790

1%

930

7.00

Kg.

@

90.00

630

97350

3. Plant and Equipment

Same as item 7-3(3)

4. Welding

Same as item 7-3(4)

5. Sundries

Total of 1, 2, 3, 4 & 5

Contractor's profit & overhead

Total Composite rate

920

7700

1% 1123

113431

20% 22686

136117

136,117**Item No. 7-5-1**

Tonne

Providing and laying for pile caps, grade beams and precast piles mild reinforcement bars with and including the cost of straightening, removing rust, cutting, bending, binding, welding, wastage, overlaps as are not shown on the drawings. The cost of binding wire and precast 1:2:4 cement concrete or M.S. chairs for binding and holding the reinforcement in position is inclusive.

Labour rate same as item 5-43

Contractor's profit & overhead

Total Labour rate

6537.50

20% 1307.50

7845.00

7,845

Materials same as item 5-43

Contractor's profit & overhead

Total Composite rate

89894.00

20% 17978.80

115717.80

115,718**Item No. 7-6-1**

Tonne

Providing and laying for pile caps, grade beams, and precast pile integrated deformed bars with and including the cost of straightening, removing rust, cutting, bending, binding, wastage, overlaps as are not shown on the drawings. The cost of binding wire and precast 1:2:4 cement concrete or M.S. chairs for binding and holding the reinforcement in position is inclusive.

Labour rate same as item 5-43

Contractor's profit & overhead

Total Labour rate

6537.50

20% 1307.50

7845.00

7,845

Unit	Description	Comp.t	Unit
		Cost	Rate
		(Rs)	(Rs)
	Materials same as item 5-44	95084.00	
	Contractor's profit & overhead	20%	19016.80
	Total Composite rate	121945.80	121,946

Item No. 7-7

Providing and laying cement concrete using Coarse Sand & Crushed Aggregate 3/4" (19 mm) and down gauge in pile caps, tee beams, and grade beams in dense homogeneous concrete mix including formwork and its removal, compacting, curing, and bailing out or pumping out sub-soil water during concreting, but excluding the cost of reinforcement.

Cu.m. a) 1 : 1 : 2

1. Labour							
	Same as item 5-13(a)				1292.38		
	Contractor's profit & overhead			20%	258.48		
	Total Labour rate				1550.85		1,551
2. Material							
	Cement OPC	0.55	M.Ton	@	10500	5821.20	
	Approved Coarse Sand	0.39	Cu.m.	@	1059	407.83	
	Approved Crushed Aggregate 3/4" -3/8"	0.77	Cu.m.	@	1297	998.50	
	Water charges on (i) to (iii)				1.5%	108.41	
						7335.94	
3. Plant and Equipment							
	Same as item 5-5(a)					214.00	
4. Shuttering							
	Same as item 5-19(a)					2383.43	
5. Scaffolding							
	Same as item 5-19(a)					529.65	
6. Bailing or pumping out water							
	Pump including POL with driver	0.75	Hrs	@	300.00	225.00	
	Total of 1, 2, 3, 4, 5 & 6					11980.39	
	Contractor's profit & overhead				20%	2396.08	
	Total Composite rate					14376.47	14,376

Cu.m. b) 1 : 1.5 : 3

1. Labour							
	Same as item 5-13(a)					1292.38	
	Contractor's profit & overhead				20%	258.48	
	Total Labour rate					1550.85	1,551
2. Material							
	Cement OPC	0.40	M.Ton	@	10500	4233.60	
	Approved Coarse Sand	0.42	Cu.m.	@	1059	444.91	
	Approved Crushed Aggregate 3/4" -3/8"	0.84	Cu.m.	@	1297	1089.27	
	Water charges on (i) to (iii)				1.5%	86.52	
						5854.29	
3. Plant and Equipment							
	Same as item 5-5(a)					214.00	
4. Shuttering							
	Same as item 5-19(a)					2383.43	
5. Scaffolding							
	Same as item 5-19(a)					529.65	
6. Bailing or pumping out water							
	Pump including POL with driver	0.75	Hrs	@	300.00	225.00	
	Total of 1, 2, 3, 4, 5 & 6					10498.74	
	Contractor's profit & overhead				20%	2099.75	
	Total Composite rate					12598.49	12,599

Cu.m. c) 1 : 2 : 4

Unit	Description	Comp.t	Unit
		Cost	Rate
		(Rs)	(Rs)
1. Labour			
Same as item 5-13(a)		1292.38	
Contractor's profit & overhead	20%	258.48	
Total Labour rate		1550.85	1,551
2. Material			
Cement OPC	0.32 M.Ton @	10500.00	3326.40
Approved Coarse Sand	0.44 Cu.m. @	1059.30	466.09
Approved Crushed Aggregate 3/4" -3/8"	0.84 Cu.m. @	1296.75	1089.27
Water charges on (i) to (iii)		1.5%	73.23
			4954.99
3. Plant and Equipment			
Same as item 5-5(a)			214.00
4. Shuttering			
Same as item 5-19(a)			2383.43
5. Scaffolding			
Same as item 5-19(a)			529.65
6. Bailing or pumping out water			
Pump including POL with driver	0.75 Hrs @	300.00	225.00
Total of 1, 2, 3, 4, 5 & 6			9599.44
Contractor's profit & overhead	20%		1919.89
Total Composite rate			11519.33
			11,519

Item No. 7-8

R.M Boring for piling in any kind of soil including extraction of casing pipe and or using bentonite as applicable in all kinds of soil except shingle, gravel or rock.

a) From ground level upto 250 ft (76 m) below ground level

i. 15" to 18" (375 mm to 450 mm) i/d Rate same as item 27-5a(i)	6300.10	10,303
ii. 20" to 30" (500 mm to 750 mm) i/d Rate same as item 27-5a(ii)	6930.10	11,612
iii. 32" to 40" (800 to 1000 mm) i/d Rate same as item 27-6a(i)	9450.15	16,292
iv. 46" to 60" (1200 to 1500 mm) i/d Rate same as item 27-6a(ii)	10395.15	17,142

b) Exceeding 250 ft (76 m) below ground level

i. 15" to 18" (375 mm to 450 mm) i/d Rate same as item 27-5b(i)	8190.15	10,596
ii. 20" to 30" (500 mm to 750 mm) i/d Rate same as item 27-5b(ii)	9009.15	11,622
iii. 32" to 40" (800 to 1000 mm) i/d Rate same as item 27-6b(i)	12285.25	14,556
iv. 46" to 60" (1200 to 1500 mm) i/d Rate same as item 27-6b(ii)	13513.75	16,135

Item No. 7-9

Boring by percussion, direct rotary or reverse rotary method for piling in any kind of soil including extraction of casing pipe and or using bentonite as applicable in shingle, gravel or rock.

a) From ground level upto 250 ft (76 m) below ground level

i. 15" to 18" (375 mm to 450 mm) i/d Rate same as item 27-7a(i)	10627.45	16,433
ii. 20" to 30" (500 mm to 750 mm) i/d Rate same as item 27-7a(ii)	11690.20	19,404
iii. 32" to 40" (800 to 1000 mm) i/d Rate same as item 27-8a(i)	13815.70	14,243

Unit	Description	Comp.t Cost	Unit Rate
		(Rs)	(Rs)

iv. 46" to 60" (1200 to 1500 mm) i/d Rate same as item 27-8a(ii)		15197.25	15,822
b) Exceeding 250 ft (76 m) below ground level			
i. 15" to 18" (375 mm to 450 mm) i/d Rate same as item 27-7b(i)		13815.70	19,060
ii. 20" to 30" (500 mm to 750 mm) i/d Rate same as item 27-7b(ii)		15197.25	22,764
iii. 32" to 40" (800 to 1000 mm) i/d Rate same as item 27-8a(i)		20723.55	21,277
iv. 46" to 60" (1200 to 1500 mm) i/d		22795.90	23,302
c) Extra of Steel Casing of Shaft			
Steel Casing of Piles/Piers	1.00 Tonne	@ 80000.00	80000.00
Contractor's profit & overhead		20.00%	16000.00
			96000.00

Item No. 7-10-1

Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia.

Boring plant with fuel & labour, hire charges	2.50	Hrs	@	750.00	1875.00
Engineer	2.50	Hrs	@	300.00	750.00
Operator (for boring plant)	2.50	Hrs	@	150.00	375.00
Beldar	7.50	Hrs	@	35.00	262.50
					3262.50
Transportation, shifting, erection etc. lump sum					10000.00
					13262.50
Contractor's profit & overhead				20.00%	2652.50
					15915.00

Item No. 7-11-1

Sub-soil boring of required dia in rock of all sorts to required depth complete.

Boring plant with fuel & labour, hire charges	7.00	Hrs	@	750.00	5250.00
Engineer	7.00	Hrs	@	300.00	2100.00
Operator (for boring plant)	7.00	Hrs	@	150.00	1050.00
Beldar	21.00	Hrs	@	35.00	735.00
					9135.00
Transportation, shifting, erection etc. lump sum					10000.00
					19135.00
Contractor's profit & overhead				20.00%	3827.00
					22962.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 8-1

Sq.m. a) Providing and laying 1" (25mm) thick damp proof course with 1:2:4 cement concrete using Coarse Sand and crushed aggregate 1/2" (13mm) and down gauge mixed with any approved water proofing agent including compacting, curing, formwork and its removal cost of water proofing agent will be paid separately.

Detail of cost for 40 Sq.m.
(One cubic meter concrete)

1. Labour

Mason	5.75	Hrs	@	125.00	718.75
Labourer	7.25	Hrs	@	87.50	634.38
Bahishti	2.00	Hrs	@	87.50	175.00
Total					1528.13
Contractor's profit & overhead				20%	305.63
Total Labour rate					45.84

45.85

2. Material

Same as item 5-8(c)2 4971.92

3. Plant and Equipment

Concrete mixer with operator - 5 Cu.ft. 0.33 Hrs @ 253.00 83.49

4. Shuttering

Wall thickness 1.50' 0.75/1.50 x 35.10 17.55

Total of 2,3 & 4 5,072.96

Contractor's profit & overhead 20% 1,014.59

Total 6,087.56

Total Composite rate 198.03

198.05**Item No. 8-2**

Sq.m. a) Same as 8-1(a) above but with 1-1/2" (37.5 mm) thick damp proof course.

Labour rate for 1" (25 mm) thick as in item 8-1(a) = 45.85

Labour rate for 1-1/2" (37.5 mm) thick 45.85 x 37.5 / 25 68.78

68.80

Composite rate for 1" (25 mm) thick as in item 8-1(a) = 198.05

Composite rate for 1-1/2" (37.5 mm) thick 198.05 x 37.5 / 25 297.08

297.10**Item No. 8-3**

Sq.m. a) Same as 8-1(a) but 2" (50 mm) thick damp proof course.

Labour rate for 1" (25 mm) thick as in item 8-1(a) = 45.85

Labour rate for 2" (50 mm) thick 45.85 x 50 / 25 91.70

91.70

Composite rate for 1" (25 mm) thick as in item 8-1(a) = 198.05

Composite rate for 2" (50 mm) thick 198.05 x 50 / 25 396.10

396.10**Item No. 8-4**

a) Providing and laying 1" (25.4 mm) thick damp proof course with 1:2:4 cement concrete Coarse Sand and crushed aggregate 1/2" (13mm) and down gauge including applying a coat of hot bitumen 80/100 or equivalent using 1.71 Kg per sq.m. and laying single layer of polythene sheet 0.13 mm thick (500 gauge) on damp proof course, including cleaning surface and spraying.

Sq.m. Detail of cost for 40 Sq.m.

1. Labour

Labour rate same as in item 8.1(a) 45.85

Extra labour for cleaning the surface, heating, spraying maxphalt and laying polythene.

Labourer 8.35 Hrs @ 87.50 730.63

Spray man 3.00 Hrs @ 125.00 375.00

Total 1105.63

Contractor's profit & overhead 20% 221.13

Total Labour rate 79.02

79.00

2. Material

Rate same as in item 8-1 (a) 5072.96

Add

Bitumen 80/100 at 1.71 kg/sq.m = 1.71 x 40 68.40 Kg.

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Wastage @ 5%	3.42	Kg.		
		71.82	Kg.		
	Polythene sheet with 10% wastage (For 40 Sq.m.)	44.00	Sq.m.		
	Bitumen 80/100	71.82	Kg.	@ 80.00	5745.60
	Fire wood for heating	0.187 Kg per Kg of bitumen			
	Fuel wood	13.43	Kg.	@ 15.00	201.46
	Polythene sheet	44.00	Sq.m.	@ 80.00	3520.00
					9467.06
	3.Hire charges				
	Tar boiler with attendant	0.50	Hrs	@ 200.00	100.00
	Sundries			25%	25.00
					125.00
	Total of 2 & 3				14665.02
	Contractor's profit & overhead			20%	2,933.00
	Total				17,598.02
	Total Composite rate				518.97
					518.95

Item No. 8-5**Sq.m. a) Same as 8-4(a) above but with 1-1/2" (37.5 mm) thick damp proof course.**

Labour rate for 1" (25 mm) thick as in item 8-4(a) =	79.00				
Labour rate for 1-1/2" (37.5 mm) thick	79.00	x 37.5 / 25		118.50	118.50
Composite rate for 1" (25 mm) thick as in item 8-4(a) =	518.95				
Composite rate for 1-1/2" (37.5 mm) thick	518.95	x 37.5 / 25		778.43	778.45

Item No. 8-6**Sq.m. a) Same as 8-4(a) above but with 2" (50 mm) thick damp proof course.**

Labour rate for 1" (25 mm) thick as in item 8-4(a) =	79.00				
Labour rate for 2" (50 mm) thick	79.00	x 50 / 25		158.00	158.00
Composite rate for 1" (25 mm) thick as in item 8-4(a) =	518.95				
Composite rate for 2" (50 mm) thick	518.95	x 50 / 25		1037.90	1037.90

Item No. 8-7-1

Providing and laying damp proof course of bitumen (hot application) at the rate of 1.25 Kg. of bitumen per Sq.m. on the smooth finished plinth surface made of 1/2" (13mm) thick cement plaster 1:4 covered with a coat of hot bitumen at the rate of 1 Kg. per Sq.m. of surface area including blinding the top surface with coarse sand using 0.012 Cu.m. per Sq.m.

Sq.m. Detail of cost per 40 Sq.m.

1 Labour					
Labour for 1/2" (13 mm) thick plaster					
Plasterer	28.50	Hrs	@ 110.00	3135.00	
Labourer	31.50	Hrs	@ 87.50	2756.25	
Bahishti	3.00	Hrs	@ 87.50	262.50	
Labour for cleaning the surfaces, heating and spraying.					
Same as item 8-4(a)				1105.63	
				7259.38	
Contractor's profit & overhead			20%	1451.88	
Total Labour rate				217.78	217.80
2 Material					
Mortar 1:4	40 x 13 / 1000	0.52	Cu.m.		
Add wastage	10%	0.05	Cu.m.		
		0.57	Cu.m.		
Shrinkage @	25%	0.14	Cu.m.		
		0.72	Cu.m.		
Cement OPC	(0.72 x 1 / 5 x 1440 / 1000)	0.21	M.Ton	@ 10500.00	2162.16
Sand fine	(0.72 x 4 / 5), Mortar	0.57	Kg.	@ 8.00	4.58
Sand fine	(0.012 x 40), for blinding	0.48	Kg.	@ 8.00	3.84
iv) Bitumen					

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
First Coat	1.25 x 40 kg.	50.00			
2nd Coat	1.00 x 40 kg.	40.00			
		90.00			
Wastage	5%	4.50			
		94.50			
Bitumen 80/100		94.50		@	80.00
Fuel wood	(0.187 Kg per kg of Bitumen)	17.67		@	15.00
					7,560.00
					265.07
					9,995.65
3. Hire charges of Tar Boiler					125.00
Same as in item 8-4(a)					10,120.65
Total of 2 & 3					2,024.13
Contractor's profit & overhead			20%		12,144.78
Total					521.40
Total Composite rate					521.40

Item No. 8-8-1

Sq.m. Providing damp proof course on vertical surface with 3/4" (19 mm) thick cement plaster 1:3 mixed with any approved water proofing agent including curing and providing a layer of polythene sheet 0.13mm thick (500 gauge), but excluding the cost of water proofing agent.

Detail of cost of 40 Sq.m.

1. Labour

Plasterer	32.50	Hrs	@	110.00	3,575.00
Labourer	23.35	Hrs	@	87.50	2,043.13
Bahishti	4.25	Hrs	@	87.50	371.88
					5,990.00
Contractor's profit & overhead				20%	1,198.00
Total Labour rate					179.70
					179.70

2. Material

Mortar 1:3	40 x 19 / 1000	0.76	Cu.m.		
Add Wastage	5%	0.04			
		0.80	Cu.m.		
Mortar 1:3		0.80	Cu.m.	@	6099.30
Polythene sheet		44.00	Sq.m.	@	80.00
Total					8,387.24
Contractor's profit & overhead				20%	1,677.45
Total					10,064.69
Total Composite rate					431.32
					431.30

Item No. 8-9

Sq.m. a) Providing a coat of bitumen emulsion at 0.50 kg per sq.m. on v 3.00

1. Labour

Painter	0.25	Hrs	@	125.00	31.25
Labourer	1	Hrs	@	87.50	87.50
					118.75
Contractor's profit & overhead				20%	23.75
Total Labour rate					142.50
					142.50

2. Material

Bitumen 80/100	1.00	Kg.	@	80	80.00
Contractor's profit & overhead				20%	16.00
Total					96.00
Total Composite rate					238.50
					238.50

Sq.m. b) Extra per one storey height if the building is more than one storey height.

Labourer	0.25	Hrs	@	87.50	21.88
Contractor's profit & overhead				20%	4.38
Total Composite rate					26.25
					26.25

Item No. 8-10

Sq.m. a) Providing and laying on ground floor roof plastic bitumen No.3 at the rate of 1.45 kg with 0.176 cu.ft.(0.005 cu.m) of coarse sand in first coat and 1.25 kg. with 0.176 cu.ft. (0.005 cu.m). of coarse sand in second coat over a coat of light diesel oil priming at 0.75 kg per sq.m. including light ramming.

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
Detail of cost of 40 Sq.m.						
1. Labour						
For measuring, mixing and spraying						
Labourer	14	Hrs	@	87.50	1203.13	
Spray man	12	Hrs	@	125.00	1437.50	
					2640.63	
Contractor's profit & overhead				20%	528.13	
Total Labour rate					79.22	79.20
2. Material						
Bitumen two coats	2.7 x 40	108.00	Kg.			
Wastage	5%	5.40				
		113.40	Kg.			
Bitumen plastic		113.40	Kg.	@	40.00	4536.00
Oil - diesel		30	Litre	@	96	2880.00
Sand fine		0.01	Kg.	@	8.00	0.08
Fuel wood		20	Kg.	@	15.00	300.00
Total					7716.08	
Contractor's profit & overhead				20%	1,543.22	
Total					9,259.30	
Total Composite rate					310.70	310.70

b) Extra per storey height if the building is more than one storey height

Labourer	0.25	Hrs	@	87.50	21.88	
Contractor's profit & overhead				20%	4.38	
Total Composite rate					26.25	26.25

Item No. 8-11

Sq.m. a) Providing and laying on ground floor roof ruberoid 3 ply reelia roofing including asphalt felt No.7 as underlay each treated with ruberoid compound including providing, flashing and finished with washed gravel.

1. Labour						
For measuring, mixing, spraying and laying.						
Labourer	30	Hrs	@	87.50	2625.00	
Spray man	8.75	Hrs	@	125.00	1093.75	
					3718.75	
Contractor's profit & overhead				20%	743.75	
Total Labour rate					77.61	77.60
2. Material						
Considering a roof 10 meter long and 5 meter wide having a parapet all round.						
Contents:	1 x 10 x 5	50.00	Sq.m.			
Parapet	30 x 0.25	7.50	Sq.m.			
		57.50	Sq.m.			
Wastage	10%	5.75	Sq.m.			
		63.25	Sq.m.			
Ruberoid (3 Ply)		63.25	Sq.m.	@	104.50	6609.63
ii) Bitumen compound						
Over underlay @ 1.46 kg per Sq m		92.35	Kg.			
Over ruberoid @ 1.46 kg per Sq m		92.35	Kg.			
		184.69	Kg.			
Bitumen compound		184.69	Kg.	@	60.00	11081.40
Felt No.7 underlay		63	Sq.m.	@	115.00	7273.75
Gravel	(washed)	1	Cu.m.	@	423.72	254.23
Fuel wood		34	Kg.	@	15.00	510.00
					25729.01	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	5145.80	
	Total		536.95	
	Total Composite rate		614.56	614.55

Sq.m. b) Extra per one storey height if the building is more than one storey height.

Labourer	0.23	Hrs	@	87.50	20.13
Contractor's profit & overhead				20%	4.03
Total Composite rate					24.15

Item No. 8-12**Sq.m. a) Providing and laying heated asphalt on ground floor roof at the rate of 1.95 kg per sq.m. finished with washed gravel 3/8" (9.5 mm) and down gauge at 0.0295 cu.ft./sq.ft. (0.009 cu.m./sq.m) including ramming and rounding of corners with cement mortar.****1. Labour**

For heating, spraying and ramming:

Labourer	1.50	Hrs	@	87.50	131.25
Spray man	0.25	Hrs	@	125.00	31.25
Mason	0.09	Hrs	@	125.00	11.38
					173.88
Contractor's profit & overhead				20%	34.78
Total Labour rate					208.65

2. Material

Asphalt	1.95	Kg.			
Wastage	5%	0.10	Kg.		
		2.05	Kg.		
Bitumen	2.05	Kg.	@	80.00	163.80
Fuel wood	0.40	Kg.	@	15.00	6.00
Gravel	0.01	Cu.m.	@	423.72	3.81
Cement mortar				5%	8.68
Total					182.29
Contractor's profit & overhead				20%	36.46
Total					218.75
Total Composite rate					427.40

Sq.m. b) Extra per one storey height if the building is more than one storey height.

Labourer	0.23	Hrs	@	87.50	20.13
Contractor's profit & overhead				20%	4.03
Total Composite rate					24.15

Item No. 8-13**Sq.m. a) Same as 8-12(a) but heated asphalt at the rate of 0.90 kg. per sq.m.****1. Labour**

For heating, spraying and ramming:

Labourer	1.35	Hrs	@	87.50	118.13
Spray man	0.20	Hrs	@	125.00	25.00
					143.13
Contractor's profit & overhead				20%	28.63
Total Labour rate					171.75

2. Material

Asphalt	0.90	Kg.			
Wastage	5%	0.05	Kg.		
		0.95	Kg.		
Bitumen	0.95	Kg.	@	80.00	75.60
Fuel wood	0.20	Kg.	@	15.00	3.00
Sand coarse	0.01	Cu.m.	@	882.75	7.94
					86.54
Contractor's profit & overhead				20%	17.31
Total					103.85
Total Composite rate					275.60

Sq.m. b) Extra per one storey height if the building is more than one storey height.

Same as item 8-12 (b)					24.15	24.15
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Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)

Item No. 8-14

Sq.m. a) Providing and laying on ground floor roofing felt 2 ply over a tack coat of bitumen at 1.45 kg per sq.m. and sealed with bitumen compound at the rate of 1.45 kg per sq.m. and blended with washed gravel 9.5mm and down gauge at the rate of 0.009 cu.m. per sq.m. including ramming.

1. Labour

For heating, spraying, laying and blending washed gravel:

Labourer	1.75	Hrs	@	87.50	153.13
Spray man	0.20	Hrs	@	125.00	25.00
					178.13
Contractor's profit & overhead				20%	35.63
Total Labour rate					213.75

213.75

2. Material

Bitumen for tack coat	1.45	Kg.			
Bitumen for seal coat	1.45	Kg.			
	2.90	Kg.			
Bitumen 80/100	2.90	Kg.	@	80.00	232.00
Fuel wood	0.55	Kg.	@	15.00	8.25
Gravel	0.01	Cu.m.	@	423.72	3.81
Blanco felt (2 ply)	1.00	Sq.m.			
Wastage	5%	0.05			
Overlaps	5%	0.05			
	1.10	Sq.m.			
Jutoid W.P. matting (3.2 mm)	1.10	Sq.m.	@	75.00	82.50
					326.56
Contractor's profit & overhead				20%	65.31
Total Composite rate					605.63

605.65

Sq.m. b) Extra per one storey height if the building is more than one storey height.

Labourer	0.25	Hrs	@	87.50	21.88
Contractor's profit & overhead				20%	4.38
Total Composite rate					26.25

26.25**Item No. 8-15**

Sq.m. a) Providing and laying water proof matting 3.2 mm thick on external faces of walls below ground level, under raft, basement floor, under floors, plinth and on ground floor roof top with adhesive No.70 at the rate of 0.48 Kg per Sq.m. diluted with 13% of solvent like kerosine oil including the cost of overlaps, cleaning & scraping the surface by wire brushes before applying the adhesive and laying jutoid.

1. Labour

For scraping, cleaning and laying:

Labourer	1.00	Hrs	@	87.50	87.50
Contractor's profit & overhead				20%	17.50
Total Labour rate					105.00

105.00

2. Material

Water proof matting	3.2mm thick (4.	1.00	Sq.m.		
Wastage	5%	0.05			
Overlaps	5%	0.05			
		1.10	Sq.m.		
Jutoid W.P. matting (3.2 mm)		1.10	Sq.m.	@	75.00
Adhesive No.70 at 0.48 Kg/Sq.m.		0.48	Kg.		
Wastage	5%	0.02	Kg.		
		0.50	Kg.		
Adhesive		0.50	Kg.	@	135.00
Oil kerosine		0.07	Litre	@	88.00
Wire brush		1.00	No.	@	50.00
					206.70
Contractor's profit & overhead				20%	41.34
Total Composite rate					353.04

353.05

Sq.m. b) Extra for every additional layer of jutoid water proof matting.

Labourer	0.50	Hrs	@	87.50	43.75
Contractor's profit & overhead				20%	8.75
Total Labour rate					52.50

52.50

2. Material

Jutoid water proof matting 3.2 mm thick

Same as in item 8-15(a)					82.50
Adhesive No.70	% of item 8-15(a)				34.02
Kerosine oil	% of item 8-15(a)				3.08

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	119.60	
	Total Composite rate		23.92	
			196.02	196.00

Sq.m. c) Extra per one storey height if the building is more than one storey height.

1. Labour						
Labourer	0.35	Hrs	@	87.50	30.63	
Contractor's profit & overhead				20%	6.13	
Total Labour rate					36.75	36.75

Item No. 8-16

- a) Providing and laying water proof matting 1.6 mm to 2.1 mm thick on top of flat or sloping roofs of ground floor with adhesive No. 70 at the rate of 0.48 Kg/Sq.m. diluted with 13% of solvent like kerosine oil including the cost of overlaps, cleaning and scraping the surface with wire brushes before applying the adhesive and laying jutoid.

Sq.m.	1. Labour					
	For scraping, cleaning and laying					
	Labourer	1.00	Hrs	@	87.50	87.50
	Contractor's profit & overhead				20%	17.50
	Total Labour rate					105.00
	2. Material					
	Water proof matting	1.6mm to 2.1m	1.00	Sq.m.		
	Wastage	5%	0.05	Sq.m.		
	Overlaps	5%	0.05	Sq.m.		
			1.10	Sq.m.		
	Jutoid W.P. matting (1.6 mm)		1.10	Sq.m.	@	60.00
	Adhesive No.70	@ 0.48 Kg/Sq.m	0.48	Kg.		66.00
	Wastage	5%	0.02	Kg.		
			0.50	Kg.		
	Adhesive		0.50	Kg.	@	135.00
	Oil kerosine		0.07	Litre	@	88.00
	Wire brush		1.00	No.	@	50.00
						190.20
	Contractor's profit & overhead				20%	38.04
	Total Composite rate					333.24
						333.25

b) Extra for every additional layer of jutoid water proof matting.

	Labourer	0.50	Hrs	@	87.50	43.75
	Contractor's profit & overhead				20%	8.75
	Total Labour rate					52.50
	2. Material					
	Jutoid water proof matting 2.1 mm thick					
	Same as in item 8-16(a)					66.00
	Adhesive No.70	% of item 8-16(a)				34.02
	Kerosine oil	% of item 8-16(a)				3.08
						103.10
	Contractor's profit & overhead				20%	20.62
	Total Composite rate					176.22
						176.20

Sq.m. c) Extra per one storey height if the building is more than one storey height.

	Labourer	0.35	Hrs	@	87.50	30.63
	Contractor's profit & overhead				20%	6.13
	Total Labour rate					36.75
						36.75

Item No. 8-17

- Sq.m. a) Providing and laying water proof matting 1.6 mm to 2.1 mm thick over corrugated roof (ground floor roof) with adhesive No.70 at the rate of 1.0 kg. per sq.m. diluted with 13% of solvent like kerosine oil including the cost of overlaps cleaning and scraping the surface with wire brushes before applying the adhesive and laying jutoid.

1. Labour						
For scraping, cleaning and laying:						
Labourer	1.00	Hrs	@	87.50	87.50	
Contractor's profit & overhead				20%	17.50	

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate			105.00	105.00
	2. Material				
	Jutoid water proof matting	1.00	Sq.m.		
	Corrugation	20% 0.20	Sq.m.		
	Wastage	5% 0.05	Sq.m.		
	Overlaps	5% 0.05	Sq.m.		
		<u>1.30</u>	Sq.m.		
	Jutoid W.P. matting (1.6 mm)	1.30	Sq.m.	@ 60.00	78.00
	Adhesive No.70	0.48	Kg.		
	Corrugation and Wastage	0.12	Kg.		
		<u>0.60</u>	Kg.		
	Adhesive	0.60	Kg.	@ 135.00	81.00
	Oil kerosine	0.08	Litre	@ 88.00	6.86
	Wire brush			2.5%	<u>2.20</u>
					168.06
	Contractor's profit & overhead			20%	<u>33.61</u>
	Total Composite rate				306.67
	b) Extra for every additional layer of jutoid water proof matting.				
	1. Labour				
	Labourer	0.50	Hrs	@ 87.50	43.75
	Contractor's profit & overhead			20%	<u>8.75</u>
	Total Labour rate				52.50
	2. Material				
	Water proof matting 2.1 mm thick				78.00
	Same as in item 8-17(a)				
	Adhesive No.70	% of item 8-17(a)			40.50
	Kerosine oil	% of item 8-17(a)			<u>3.43</u>
					121.93
	Contractor's profit & overhead			20%	<u>24.39</u>
	Total Composite rate				198.82
	Sq.m. c) Extra per one storey height if the building is more than one storey height.				
	1. Labour				
	Labourer	0.35	Hrs	@ 87.50	30.63
	Contractor's profit & overhead			20%	<u>6.13</u>
	Total Labour rate				36.75
	Item No. 8-18				
	a) Providing and laying 1:2:4 cement concrete using Coarse Sand and crushed aggregate 3/4" (19mm) and down gauge in terraces 3" (75 mm) average thickness to required slope in panels including formwork, consolidation, finishing, curing, painting the surface with plastic bitumen No.4 at the rate of 0.73 Kg per Sq.m. blinded with sand at the rate of 0.006 Cu.m. per Sq.m. on ground floor roof.				
Sq.m.	Detail of cost for 10 Sq.m.				
	Concrete	= 10 x 75 / 100	1.16	Cu.m.	
	1. Labour				
	For measuring, mixing and laying concrete:				
	Mason	1.60	Hrs	@ 125.00	200.00
	Labourer	7.75	Hrs	@ 87.50	678.13
	Bahishti	1.60	Hrs	@ 87.50	140.00
	Mistri	1.80	Hrs	@ 110.00	198.00
	For painting, blinding and ramming:				
	Labourer	4.50	Hrs	@ 87.50	393.75
	Bahishti	1.00	Hrs	@ 87.50	<u>87.50</u>
	Total:				1697.38
	Contractor's profit & overhead			20%	<u>339.48</u>
	Total Labour rate				203.69
	2. Material				
	Cement OPC	0.32	M.Ton	@ 10500.00	3360.00
	Approved Coarse Sand	0.44	Cu.m.	@ 1059.30	466.09
	Crush 3/4" & down gauge	0.88	Cu.m.	@ 1421.40	1250.83
	Water charges			1.5%	<u>76.15</u>
	Plastic bitumen No.4 @ 0.73 Kg	7.30			
	Wastage	5% 0.37			
		<u>7.67</u>	Kg.		
	Bitumen plastic	7.67	Kg.	@ 40.00	306.60
	Oil - diesel	2.09	Litre	@ 96.00	200.64

Unit	Description			Component Cost	Unit Rate	
				(Rs)	(Rs)	
	Sand local	0.01	Cu.m.	@	882.75	5.30
	Fuel wood	1.40	Kg.	@	15.00	21.00
	Shuttering				0.5%	8.49
						5695.10
	Mixing charges					
	Concrete mixer with operator - 5 Cu.ft.	1.89	Hrs	@	253.00	478.17
	Total					6173.27
	Contractor's profit & overhead				20%	1234.65
	Total Composite rate					944.48
						944.50

Sq.m. b) Extra per one storey height if the building is more than one storey height.

	Labourer	1.00	Hrs	@	87.50	87.50
	Bahishti	0.20	Hrs	@	87.50	17.50
						105.00
	Contractor's profit & overhead				20%	21.00
	Total Labour rate					126.00
						126.00

Item No. 8-19

Providing and laying polythene sheet 0.13 mm thick under floors for water proofing laid as per instructions of the Engineer in ground floor.

Sq.m. a) Single layer

1. Labour						
	Labourer	0.26	Hrs	@	87.50	22.75
	Contractor's profit & overhead				20%	4.55
	Total Labour rate					27.30
2. Material						
	Polythene	1.00	Sq.m.			
	Wastage	10%	0.10	Sq.m.		
			1.10	Sq.m.		
	Polythene sheet	1.10	Sq.m.	@	80.00	88.00
	Contractor's profit & overhead				20%	17.60
	Total Composite rate					132.90
						132.90

Sq.m. b) Double layer

1. Labour						
	Labourer	0.52	Hrs	@	87.50	45.50
	Contractor's profit & overhead				20%	9.10
	Total Labour rate					54.60
2. Material						
	Polythene	2.00	Sq.m.			
	Wastage	10%	0.20	Sq.m.		
			2.20	Sq.m.		
	Polythene sheet	2.20	Sq.m.	@	80.00	176.00
	Contractor's profit & overhead				20%	35.20
	Total Composite rate					265.80
						265.80

Item No. 8-20

Providing and laying polythene sheet 0.13 mm thick on roof for water proofing laid as per instructions of the Engineer in ground floor.

Sq.m. a) Single layer

1. Labour						
	Labourer	0.26	Hrs	@	87.50	22.75
	Contractor's profit & overhead				20%	4.55
	Total Labour rate					27.30
2. Material						
	Polythene	1.00	Sq.m.			
	Wastage	10%	0.10	Sq.m.		
			1.10	Sq.m.		
	Polythene sheet	1.10	Sq.m.	@	80.00	88.00
	Contractor's profit & overhead				20%	17.60
	Total Composite rate					132.90
						132.90

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
Sq.m. b) Double layer							
1. Labour							
	Labourer	0.52	Hrs	@	87.50	45.50	
	Contractor's profit & overhead				20%	9.10	
	Total Labour rate					54.60	54.60
2. Material							
	Polythene	2.00	Sq.m.				
	Wastage	10%				0.20	
		<u>2.20</u>	Sq.m.				
	Polythene sheet	2.20	Sq.m.	@	80.00	176.00	
	Contractor's profit & overhead				20%	35.20	
	Total Composite rate					265.80	265.80

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 9-1

Providing and laying 1:4:8 cement concrete block masonry using Coarse Sand and Approved crushed aggregate 3/4" (19mm) & down gauge in foundation, basement and plinth including scaffolding, raking out joints and curing.

Vertical and Horizontal Joints 12.7mm thick and taking size of block 300mmx200mm with varied thickness.

Cubical content for solid block masonry:

Concrete mix (Table 9)	0.91	Cu.m.
Mortar mix	0.09	Cu.m.
	<u>1.00</u>	Cu.m.
Taking Wastage		
Concrete mix	0.91	Cu.m.
Wastage 5%	0.05	Cu.m.
	<u>0.95</u>	Cu.m.
Mortar mix	0.09	Cu.m.
Wastage 10%	0.01	Cu.m.
	<u>0.10</u>	Cu.m.

Cu.m. a) 4" (100 mm) thick solid block masonry**i) Cement sand mortar 1 : 4**

1. Labour

For Moulding and Stacking

Detail of cost for moulding 650 blocks:

Skilled worker (moulder)	16.00	Hrs	@	125.00	2,000.00
Labourer	16.00	Hrs	@	87.50	1,400.00
					<u>3,400.00</u>
Concrete platform			@	5%	170.00
Mixer Charges			@	5%	170.00
Compaction Manual or by table compactor			@	3%	85.00
Curing			@	1%	42.50
Stacking			@	1%	42.50
					<u>3,910.00</u>
Rate Per Block	3910.00	/650			6.02
Blocks (Table 9) - For masonry	158.90	Nos.	@	6.02	955.84
Mason	5.50	Hrs	@	125.00	687.50
Labourer	5.50	Hrs	@	87.50	481.25
Mistri	0.35	Hrs	@	110.00	38.50
Bahishti	5.50	Hrs	@	87.50	481.25
Total					<u>2,644.34</u>
Contractor's profit & overhead				20%	528.87
Total Labour rate					<u>3,173.21</u>

3,173

2. Material

Cost of concrete mix as per item 5-8(e)	0.95	Cu.m.	@	3682.80	3,511.18
Cost of mortar mix as per Table 11(a)	0.10	Cu.m.	@	4839.30	489.74
					<u>4,000.92</u>

3. Scaffolding

				1%	66.45
Total of 2 & 3					<u>4,067.37</u>

Contractor's profit & overhead

				20%	813.47
Total					<u>4,880.84</u>

Total Composite rate

8,054.06

8,054**Cu.m. ii) Cement sand mortar 1 : 5**

1. Labour

Same as item 9-1(a) above

Contractor's profit & overhead				20%	528.87
Total Labour rate					<u>3,173.21</u>

3,173

2. Material

Cost of concrete mix as per item 5-8(e)	0.95	Cu.m.	@	3682.80	3,498.66
Cost of mortar mix as per Table 11(a)	0.10	Cu.m.	@	4104.30	415.36
					<u>3,914.01</u>

3. Scaffolding

				1%	65.58
					<u>65.58</u>

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Total of 2 & 3			3,979.60	
	Contractor's profit & overhead	20%		795.92	
	Total			4,775.51	
	Total Composite rate			7,948.73	7,949
Cu.m. iii) Cement sand mortar 1 : 6					
	1. Labour				
	Same as item 9-1(a) above			2,644.34	
	Contractor's profit & overhead	20%		528.87	
	Total Labour rate			3,173.21	3,173
	2. Material				
	Cost of concrete mix as per item 5-8(e)	0.95	Cu.m.	@	3682.80
	Cost of mortar mix as per Table 11(a)	0.10	Cu.m.	@	3579.30
					3,873.40
	3. Scaffolding			1%	65.18
	Total of 2 & 3				3,938.58
	Contractor's profit & overhead	20%		787.72	
	Total			4,726.30	
	Total Composite rate			7,899.51	7,900
b) 6" (150 mm) thick solid block masonry					
Cu.m. i) Cement sand mortar 1 : 4					
	1. Labour				
	For moulding and stacking				
	Detail of cost for moulding 600 blocks:				
	Rate Per Block	3910.00	/600		1.38
	Blocks (Table 9)	105.93	Nos.	@	1.38
	Mason	5.00	Hrs	@	125.00
	Labourer	5.00	Hrs	@	87.50
	Mistri	0.35	Hrs	@	110.00
	Bahishti	5.00	Hrs	@	87.50
	Total				1,684.69
	Contractor's profit & overhead			20%	336.94
	Total Labour rate				2,021.63
	2. Material				
	Same as per item 9-1(a)1				4,000.92
	3. Scaffolding			1%	40.39
	Total of 2 & 3				4,041.31
	Contractor's profit & overhead			20%	808.26
	Total				4,849.57
	Total Composite rate				6,871.20
					6,871
Cu.m. ii) Cement sand mortar 1 : 5					
	1. Labour				
	Same as item 9-1(b) above			1,684.69	
	Contractor's profit & overhead	20%		336.94	
	Total Labour rate			2,021.63	2,022
	2. Material				
	Same as per item 9-1(a)ii			4,000.92	
	3. Scaffolding			1%	56.86
	Total of 2 & 3				4,057.77
	Contractor's profit & overhead	20%		811.55	
	Total			4,869.33	
	Total Composite rate			6,890.95	6,891
Cu.m. iii) Cement sand mortar 1 : 6					
	1. Labour				
	Same as item 9-1(b) above			1,684.69	
	Contractor's profit & overhead	20%		336.94	

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		2,021.63		2,022
	2. Material				
	Same as per item 9-1(a)iii		3,873.40		
	3. Scaffolding	1%	55.58		
	Total of 2 & 3		3,928.98		
	Contractor's profit & overhead	20%	785.80		
	Total		4,714.78		
	Total Composite rate		6,736.41		6,736
	c) 8" (200 mm) thick solid block masonry				
	Cu.m. i) Cement sand mortar 1 : 4				
	1. Labour				
	Detail of cost for moulding and stacking 550 blocks:				
	Rate per Block	3910 / 550	7.11		
	Blocks	79.45 Nos.	7.11		564.82
	For masonry				
	Mason	4.25 Hrs	@ 125.00		531.25
	Labourer	4.25 Hrs	@ 87.50		371.88
	Mistri	0.25 Hrs	@ 110.00		27.50
	Bahishti	4.25 Hrs	@ 87.50		371.88
	Total				1,867.32
	Contractor's profit & overhead		20%		373.46
	Total Labour rate				2,240.78
					2,241
	2. Material				
	Same as in item 9-1(a)1		4,000.92		
	3. Scaffolding	1%	58.68		
	Total of 2 & 3		4,059.60		
	Contractor's profit & overhead	20%	811.92		
	Total		4,871.52		
	Total Composite rate		7,112.30		7,112
	Cu.m. ii) Cement sand mortar 1 : 5				
	1. Labour				
	Same as in item 9-1(c)1		1,867.32		
	Contractor's profit & overhead		20%		373.46
	Total Labour rate				2,240.78
					2,241
	2. Material				
	Same as in item 9-1(a)2		4,000.92		
	3. Scaffolding	1%	58.68		
	Total of 2 & 3		4,059.60		
	Contractor's profit & overhead	20%	811.92		
	Total		4,871.52		
	Total Composite rate		7,112.30		7,112
	Cu.m. iii) Cement sand mortar 1 : 6				
	1. Labour				
	Same as in item 9-1(c)1		1,867.32		
	Contractor's profit & overhead		20%		373.46
	Total Labour rate				2,240.78
					2,241
	2. Material				
	Same as in item 9-1(a)3		3,873.40		
	3. Scaffolding	1%	57.41		
	Total of 2 & 3		3,930.81		
	Contractor's profit & overhead	20%	786.16		
	Total		4,716.97		
	Total Composite rate		6,957.75		6,958

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
d) 12" (300 mm) thick solid block masonry					
Cu.m. i) Cement sand mortar 1 : 4					
1. Labour					
Detail of cost for moulding and stacking 500 blocks:					
Cost as in item 9-1(a)1 above 3910.00					
Rate per block 3910.00 / 500 7.82					
Blocks 52.97 Nos. @ 7.82 414.20					
For masonry					
Mason 3.50 Hrs @ 125.00 437.50					
Labourer 3.50 Hrs @ 87.50 306.25					
Mistri 0.25 Hrs @ 110.00 27.50					
Bahishti 3.50 Hrs @ 87.50 306.25					
1,491.70					
Contractor's profit & overhead 20% 298.34					
Total Labour rate 1,790.04 1,790					
2. Material					
Same as in item 9-1(a)1 4,000.92					
3. Scaffolding 1% 54.93					
Total of 2 & 3 4,055.84					
Contractor's profit & overhead 20% 811.17					
Total 4,867.01					
Total Composite rate 6,657.05 6,657					
Cu.m. ii) Cement sand mortar 1 : 5					
1. Labour					
Same as in item 9-1(d)1 1,491.70					
Contractor's profit & overhead 20% 298.34					
Total Labour rate 1,790.04 1,790					
2. Material					
Same as in item 9-1(a)2 4,000.92					
3. Scaffolding 1% 54.93					
Total of 2 & 3 4,055.84					
Contractor's profit & overhead 20% 811.17					
Total 4,867.01					
Total Composite rate 6,657.05 6,657					
Cu.m. iii) Cement sand mortar 1 : 6					
1. Labour					
Same as in item 9-1(d)1 1,491.70					
Contractor's profit & overhead 20% 298.34					
Total Labour rate 1,790.04 1,790					
2. Material					
Same as in item 9-1(a)3 3,873.40					
3. Scaffolding 1% 53.65					
Total of 2 & 3 3,927.05					
Contractor's profit & overhead 20% 785.41					
Total 4,712.47					
Total Composite rate 6,502.50 6,503					
Item No. 9-2					
Same as in item 9-1 but in 1:3:6 cement concrete block masonry.					
Cu.m. a) 4" (100 mm) thick solid block masonry					
i) Cement sand mortar 1 : 3					
1. Labour					
Same as item 9-1(a)1 2,644.34					
Contractor's profit & overhead 20% 528.87					

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		3,173.21	3,173
	2. Material			
	Cost of concrete mix as per item 5-8(d)	0.95	Cu.m. @ 4379.69	4,175.60
	Cost of mortar mix as per Table 11(a)	0.10	Cu.m. @ 6099.30	617.25
				4,792.85
	3. Scaffolding		1%	74.37
	Total of 2 & 3			4,867.22
	Contractor's profit & overhead		20%	973.44
	Total			5,840.66
	Total Composite rate			9,013.88
				9,014
	Cu.m. ii) Cement sand mortar 1 : 4			
	1. Labour			
	Same as item 9-1(a)1			2,644.34
	Contractor's profit & overhead		20%	528.87
	Total Labour rate			3,173.21
				3,173
	2. Material			
	Cost of concrete mix as per item 9-2(a)1			4,175.60
	Mortar mix	0.10	Cu.m. @ 4839.30	489.74
				4,665.33
	3. Scaffolding		1%	73.10
	Total of 2 & 3			4,738.43
	Contractor's profit & overhead		20%	947.69
	Total			5,686.12
	Total Composite rate			8,859.33
				8,859
	Cu.m. iii) Cement sand mortar 1 : 5			
	1. Labour			
	Same as item 9-1(a)1			2,644.34
	Contractor's profit & overhead		20%	528.87
	Total Labour rate			3,173.21
				3,173
	2. Material			
	Cost of Concrete Mix as per item 9-2(i)1			4,175.60
	Mortar mix	0.10	Cu.m. @ 4104.30	415.36
				4,590.95
	3. Scaffolding		1%	72.35
	Total of 2 & 3			4,663.31
	Contractor's profit & overhead		20%	932.66
	Total Composite rate			8,769.18
				8,769
	Cu.m. iv) Cement sand mortar 1 : 6			
	1. Labour			
	Same as item 9-1(a)1			2,644.34
	Contractor's profit & overhead		20%	528.87
	Total Labour rate			3,173.21
				3,173
	2. Material			
	Cost of Concrete Mix as per item 9-2(i)1			4,175.60
	Cost of mortar Mix as per Table 11(a)	0.10	Cu.m. @ 3579.30	362.23
				4,537.82
	3. Scaffolding		1%	71.82
	Total of 2 & 3			4,609.64
	Contractor's profit & overhead		20%	921.93
	Total Composite rate			8,704.79
				8,705

Unit	Description	Component Cost		Unit Rate
			(Rs)	(Rs)
b) 6" (150 mm) thick solid block masonry				
Cu.m. i) Cement sand mortar 1 : 3				
	1. Labour			
	Same as item 9-1(b)1		1,684.69	
	Contractor's profit & overhead	20%	336.94	
	Total Labour rate		2,021.63	2,022
	2. Material			
	Same as item 9-2(a)1		4,792.85	
	3. Scaffolding	1%	64.78	
	Total of 2 & 3		4,857.62	
	Contractor's profit & overhead	20%	971.52	
	Total		5,829.15	
	Total Composite rate		7,850.77	7,851
Cu.m. ii) Cement sand mortar 1 : 4				
	1. Labour			
	Same as item 9-1(b)1		1,684.69	
	Contractor's profit & overhead	20%	336.94	
	Total Labour rate		2,021.63	2,022
	2. Material			
	Same as item 9-2(a)2		4,665.33	
	3. Scaffolding	1%	63.50	
	Total of 2 & 3		4,728.83	
	Contractor's profit & overhead	20%	945.77	
	Total		5,674.60	
	Total Composite rate		7,696.23	7,696
Cu.m. iii) Cement sand mortar 1 : 5				
	1. Labour			
	Same as item 9-1(b)1		1,684.69	
	Contractor's profit & overhead	20%	336.94	
	Total Labour rate		2,021.63	2,022
	2. Material			
	Same as item 9-2(a)3		4,590.95	
	3. Scaffolding	1%	62.76	
	Total of 2 & 3		4,653.71	
	Contractor's profit & overhead	20%	930.74	
	Total		5,584.45	
	Total Composite rate		7,606.08	7,606
Cu.m. iv) Cement sand mortar 1 : 6				
	1. Labour			
	Same as item 9-1(b)1		1,684.69	
	Contractor's profit & overhead	20%	336.94	
	Total Labour rate		2,021.63	2,022
	2. Material			
	Same as item 9-2(a)4		4,537.82	
	3. Scaffolding	1%	62.23	
	Total of 2 & 3		4,600.05	
	Contractor's profit & overhead	20%	920.01	
	Total		5,520.06	
	Total Composite rate		7,541.68	7,542
c) 8" (200 mm) thick solid block masonry				

Unit	Description	Component Cost		Unit Rate
			(Rs)	(Rs)
Cu.m. i) Cement sand mortar 1 : 3				
	1. Labour			
	Same as item 9-1(c)1		1,867.32	
	Contractor's profit & overhead	20%	373.46	
	Total Labour rate		<u>2,240.78</u>	2,241
	2. Material			
	Same as item 9-2(a)1		4,792.85	
	3. Scaffolding	1%	66.60	
	Total of 2 & 3		<u>4,859.45</u>	
	Contractor's profit & overhead	20%	971.89	
	Total		<u>5,831.34</u>	
	Total Composite rate		8,072.12	8,072
Cu.m. ii) Cement sand mortar 1 : 4				
	1. Labour			
	Same as item 9-1(c)1		1,867.32	
	Contractor's profit & overhead	20%	373.46	
	Total Labour rate		<u>2,240.78</u>	2,241
	2. Material			
	Same as item 9-2(a)2		4,665.33	
	3. Scaffolding	1%	65.33	
	Total of 2 & 3		<u>4,730.66</u>	
	Contractor's profit & overhead	20%	946.13	
	Total		<u>5,676.79</u>	
	Total Composite rate		7,917.57	7,918
Cu.m. iii) Cement sand mortar 1 : 5				
	1. Labour			
	Same as item 9-1(c)1		1,867.32	
	Contractor's profit & overhead	20%	373.46	
	Total Labour rate		<u>2,240.78</u>	2,241
	2. Material			
	Same as item 9-2(a)3		4,590.95	
	3. Scaffolding	1%	64.58	
	Total of 2 & 3		<u>4,655.53</u>	
	Contractor's profit & overhead	20%	931.11	
	Total		<u>5,586.64</u>	
	Total Composite rate		7,827.42	7,827
Cu.m. iv) Cement sand mortar 1 : 6				
	1. Labour			
	Same as item 9-1(c)1		1,867.32	
	Contractor's profit & overhead	20%	373.46	
	Total Labour rate		<u>2,240.78</u>	2,241
	2. Material			
	Same as item 9-2(a)4		4,537.82	
	3. Scaffolding	1%	64.05	
	Total of 2 & 3		<u>4,601.87</u>	
	Contractor's profit & overhead	20%	920.37	
	Total		<u>5,522.25</u>	
	Total Composite rate		7,763.03	7,763

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
d) 12" (300 mm) thick solid block masonry			
Cu.m. i) Cement sand mortar 1 : 3			
	1. Labour		
	Same as item 9-1(d)1	1,491.70	
	Contractor's profit & overhead	20% 298.34	
	Total Labour rate	<u>1,790.04</u>	1,790
	2. Material		
	Same as item 9-2(a)1	4,792.85	
	3. Scaffolding	1% 62.85	
	Total of 2 & 3	<u>4,855.69</u>	
	Contractor's profit & overhead	20% 971.14	
	Total	<u>5,826.83</u>	
	Total Composite rate	7,616.87	7,617
Cu.m. ii) Cement sand mortar 1 : 4			
	1. Labour		
	Same as item 9-1(d)1	1,491.70	
	Contractor's profit & overhead	20% 298.34	
	Total Labour rate	<u>1,790.04</u>	1,790
	2. Material		
	Same as item 9-2(a)2	4,665.33	
	3. Scaffolding	1% 61.57	
	Total of 2 & 3	<u>4,726.90</u>	
	Contractor's profit & overhead	20% 945.38	
	Total	<u>5,672.29</u>	
	Total Composite rate	7,462.32	7,462
Cu.m. iii) Cement sand mortar 1 : 5			
	1. Labour		
	Same as item 9-1(d)1	1,491.70	
	Contractor's profit & overhead	20% 298.34	
	Total Labour rate	<u>1,790.04</u>	1,790
	2. Material		
	Same as item 9-2(a)3	4,590.95	
	3. Scaffolding	1% 60.83	
	Total of 2 & 3	<u>4,651.78</u>	
	Contractor's profit & overhead	20% 930.36	
	Total	<u>5,582.13</u>	
	Total Composite rate	7,372.17	7,372
Cu.m. iv) Cement sand mortar 1 : 6			
	1. Labour		
	Same as item 9-1(d)1	1,491.70	
	Contractor's profit & overhead	20% 298.34	
	Total Labour rate	<u>1,790.04</u>	1,790
	2. Material		
	Same as item 9-2(a)4	4,537.82	
	3. Scaffolding	1% 60.30	
	Total of 2 & 3	<u>4,598.12</u>	
	Contractor's profit & overhead	20% 919.62	
	Total	<u>5,517.74</u>	
	Total Composite rate	7,307.78	7,308

Item No. 9-3

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Same as in item 9-1 but in 1:2:4 cement concrete block masonry.					
a) 4" (100 mm) thick solid block masonry					
Cu.m. i) Cement sand mortar 1 : 2					
1. Labour					
Same as item 9-1(a)1					
Contractor's profit & overhead 20%					
Total Labour rate					
2. Material					
Cost of concrete mix as per item 5-8(c) 0.95 Cu.m. @ 4971.92					
Cost of mortar mix as per Table 11(a) 0.10 Cu.m. @ 8442.75					
3. Scaffolding 1%					
Total of 2 & 3					
Contractor's profit & overhead 20%					
Total					
Total Composite rate					
Cu.m. ii) Cement sand mortar 1 : 3					
1. Labour					
Same as item 9-1(a)1					
Contractor's profit & overhead 20%					
Total Labour rate					
2. Material					
Cost of concrete mix as per item 5-8(c) 0.95 Cu.m. @ 4971.92					
Cost of mortar mix as per Table 11(a) 0.10 Cu.m. @ 6099.30					
3. Scaffolding 1%					
Total of 2 & 3					
Contractor's profit & overhead 20%					
Total					
Total Composite rate					
Cu.m. iii) Cement sand mortar 1 : 4					
1. Labour					
Same as item 9-1(a)1					
Contractor's profit & overhead 20%					
Total Labour rate					
2. Material					
Cost of concrete mix as per item 5-8(c) 0.95 Cu.m. @ 4971.92					
Cost of mortar mix as per Table 11(a) 0.10 Cu.m. @ 4839.30					
3. Scaffolding 1%					
Total of 2 & 3					
Contractor's profit & overhead 20%					
Total					
Total Composite rate					
Cu.m. iv) Cement sand mortar 1 : 5					
1. Labour					
Same as item 9-1(a)1					
Contractor's profit & overhead 20%					
Total Labour rate					
2. Material					
Cost of concrete mix as per item 5-8(c) 0.95 Cu.m. @ 4971.92					
Cost of mortar mix as per Table 11(a) 0.10 Cu.m. @ 4104.30					
3. Scaffolding 1%					

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total of 2 & 3		5,233.59	
	Contractor's profit & overhead	20%	1,046.72	
	Total		6,280.30	
	Total Composite rate		9,453.52	9,454
Cu.m. v)	Cement sand mortar 1 : 6			
	1. Labour			
	Same as item 9-1(a)1		2,644.34	
	Contractor's profit & overhead	20%	528.87	
	Total Labour rate		3,173.21	3,173
	2. Material			
	Cost of concrete mix as per item 5-8(c)	0.95 Cu.m.	@ 4971.92 4,740.23	
	Cost of mortar mix as per Table 11(a)	0.10 Cu.m.	@ 3579.30 362.23	
	Total of 2 & 3		5,102.46	
	3. Scaffolding		77.47	
	Total of 2 & 3	1%	5,179.93	
	Contractor's profit & overhead	20%	1,035.99	
	Total		6,215.91	
	Total Composite rate		9,389.12	9,389
	b) 6" (150 mm) thick solid block masonry			
Cu.m. i)	Cement sand mortar 1 : 2			
	1. Labour			
	Same as item 9-1(b)1		1,684.69	
	Contractor's profit & overhead	20%	336.94	
	Total Labour rate		2,021.63	2,022
	2. Material			
	Same as item 9-3(a)1		5,594.64	
	3. Scaffolding		72.79	
	Total of 2 & 3	1%	5,667.43	
	Contractor's profit & overhead	20%	1,133.49	
	Total		6,800.92	
	Total Composite rate		8,822.54	8,823
Cu.m. ii)	Cement sand mortar 1 : 3			
	1. Labour			
	Same as item 9-1(b)1		1,684.69	
	Contractor's profit & overhead	20%	336.94	
	Total Labour rate		2,021.63	2,022
	2. Material			
	Same as item 9-3(a)2		5,357.48	
	3. Scaffolding		70.42	
	Total of 2 & 3	1%	5,427.90	
	Contractor's profit & overhead	20%	1,085.58	
	Total		6,513.48	
	Total Composite rate		8,535.11	8,535
Cu.m. iii)	Cement sand mortar 1 : 4			
	1. Labour			
	Same as item 9-1(b)1		1,684.69	
	Contractor's profit & overhead	20%	336.94	
	Total Labour rate		2,021.63	2,022
	2. Material			
	Same as item 9-3(a)3		5,229.97	
	3. Scaffolding		69.15	
	Total of 2 & 3	1%	5,299.12	
	Contractor's profit & overhead	20%	1,059.82	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total	6,358.94	
	Total Composite rate	8,380.56	8,381
Cu.m. iv) Cement sand mortar 1 : 5			
	1. Labour		
	Same as item 9-1(b)1	1,684.69	
	Contractor's profit & overhead	20% 336.94	
	Total Labour rate	2,021.63	2,022
	2. Material		
	Same as item 9-3(a)4	5,155.59	
	3. Scaffolding	1% 68.40	
	Total of 2 & 3	5,223.99	
	Contractor's profit & overhead	20% 1,044.80	
	Total	6,268.79	
	Total Composite rate	8,290.41	8,290
Cu.m. v) Cement sand mortar 1 : 6			
	1. Labour		
	Same as item 9-1(b)1	1,684.69	
	Contractor's profit & overhead	20% 336.94	
	Total Labour rate	2,021.63	2,022
	2. Material		
	Same as item 9-3(a)5	5,102.46	
	3. Scaffolding	1% 67.87	
	Total of 2 & 3	5,170.33	
	Contractor's profit & overhead	20% 1,034.07	
	Total	6,204.39	
	Total Composite rate	8,226.02	8,226
c) 8" (200 mm) thick solid block masonry			
Cu.m. i) Cement sand mortar 1 : 2			
	1. Labour		
	Same as item 9-1(c)1	1,867.32	
	Contractor's profit & overhead	20% 373.46	
	Total Labour rate	2,240.78	2,241
	2. Material		
	Same as item 9-3(a)1	5,594.64	
	3. Scaffolding	1% 74.62	
	Total of 2 & 3	5,669.26	
	Contractor's profit & overhead	20% 1,133.85	
	Total	6,803.11	
	Total Composite rate	9,043.89	9,044
Cu.m. ii) Cement sand mortar 1 : 3			
	1. Labour		
	Same as item 9-1(c)1	1,867.32	
	Contractor's profit & overhead	20% 373.46	
	Total Labour rate	2,240.78	2,241
	2. Material		
	Same as item 9-3(a)2	5,357.48	
	3. Scaffolding	1% 72.25	
	Total of 2 & 3	5,429.73	
	Contractor's profit & overhead	20% 1,085.95	
	Total	6,515.68	
	Total Composite rate	8,756.46	8,756
Cu.m. iii) Cement sand mortar 1 : 4			

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	1. Labour			
	Same as item 9-1(c)1		1,867.32	
	Contractor's profit & overhead	20%	373.46	
	Total Labour rate		<u>2,240.78</u>	2,241
	2. Material			
	Same as item 9-3(a)3		5,229.97	
	3. Scaffolding	1%	70.97	
	Total of 2 & 3		<u>5,300.94</u>	
	Contractor's profit & overhead	20%	1,060.19	
	Total		<u>6,361.13</u>	
	Total Composite rate		8,601.91	8,602
Cu.m. iv)	Cement sand mortar 1 : 5			
	1. Labour			
	Same as item 9-1(c)1		1,867.32	
	Contractor's profit & overhead	20%	373.46	
	Total Labour rate		<u>2,240.78</u>	2,241
	2. Material			
	Same as item 9-3(a)4		5,155.59	
	3. Scaffolding	1%	70.23	
	Total of 2 & 3		<u>5,225.82</u>	
	Contractor's profit & overhead	20%	1,045.16	
	Total		<u>6,270.98</u>	
	Total Composite rate		8,511.76	8,512
Cu.m. v)	Cement sand mortar 1 : 6			
	1. Labour			
	Same as item 9-1(c)1		1,867.32	
	Contractor's profit & overhead	20%	373.46	
	Total Labour rate		<u>2,240.78</u>	2,241
	2. Material			
	Same as item 9-3(a)5		5,102.46	
	3. Scaffolding	1%	69.70	
	Total of 2 & 3		<u>5,172.16</u>	
	Contractor's profit & overhead	20%	1,034.43	
	Total		<u>6,206.59</u>	
	Total Composite rate		8,447.37	8,447
d)	12" (300 mm) thick solid block masonry			
Cu.m. i)	Cement sand mortar 1 : 2			
	1. Labour			
	Same as item 9-1(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		<u>1,790.04</u>	1,790
	2. Material			
	Same as item 9-3(a)1		5,594.64	
	3. Scaffolding	1%	70.86	
	Total of 2 & 3		<u>5,665.50</u>	
	Contractor's profit & overhead	20%	1,133.10	
	Total		<u>6,798.60</u>	
	Total Composite rate		8,588.64	8,589

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
Cu.m. ii) Cement sand mortar 1 : 3				
	1. Labour			
	Same as item 9-1(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		<u>1,790.04</u>	1,790
	2. Material			
	Same as item 9-3(a)2		5,357.48	
	3. Scaffolding	1%	68.49	
	Total of 2 & 3		<u>5,425.97</u>	
	Contractor's profit & overhead	20%	1,085.19	
	Total		<u>6,511.17</u>	
	Total Composite rate		8,301.21	8,301
Cu.m. iii) Cement sand mortar 1 : 4				
	1. Labour			
	Same as item 9-1(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		<u>1,790.04</u>	1,790
	2. Material			
	Same as item 9-3(a)3		5,229.97	
	3. Scaffolding	1%	67.22	
	Total of 2 & 3		<u>5,297.19</u>	
	Contractor's profit & overhead	20%	1,059.44	
	Total		<u>6,356.62</u>	
	Total Composite rate		8,146.66	8,147
Cu.m. iv) Cement sand mortar 1 : 5				
	1. Labour			
	Same as item 9-1(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		<u>1,790.04</u>	1,790
	2. Material			
	Same as item 9-3(a)4		5,155.59	
	3. Scaffolding	1%	66.47	
	Total of 2 & 3		<u>5,222.06</u>	
	Contractor's profit & overhead	20%	1,044.41	
	Total		<u>6,266.47</u>	
	Total Composite rate		8,056.51	8,057
Cu.m. v) Cement sand mortar 1 : 6				
	1. Labour			
	Same as item 9-1(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		<u>1,790.04</u>	1,790
	2. Material			
	Same as item 9-3(a)5		5,102.46	
	3. Scaffolding	1%	65.94	
	Total of 2 & 3		<u>5,168.40</u>	
	Contractor's profit & overhead	20%	1,033.68	
	Total		<u>6,202.08</u>	
	Total Composite rate		7,992.12	7,992

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 9-4-1

Cu.m. Extra for every 6.5 ft (2 m.) or part thereof in foundation and basement masonry deeper than 6.5 ft (2 m.)

1. Labour					
Labourer	1.50	Hrs	@	87.50	131.25
Bahishti	0.20	Hrs	@	87.50	17.50
Sundries				5%	7.44
					<u>156.19</u>
Contractor's profit & overhead				20%	31.24
Total Labour rate					<u>187.43</u>
					187

Item No. 9-5-1

Cu.m. Extra for every 5 ft (1.5 m) or part thereof in foundation and basement masonry deeper than 5 ft (1.5 m).

1. Labour					
Labourer	2.00	Hrs	@	87.50	175.00
Bahishti	0.25	Hrs	@	87.50	21.88
Sundries				5%	9.84
					<u>206.72</u>
Contractor's profit & overhead				20%	41.34
Total Labour rate					<u>248.06</u>
					248

Item No. 9-6

Providing and laying 1:4:8 cement concrete block masonry using Coarse Sand and Approved crushed aggregate 3/4" (19mm) and down gauge in ground floor super-structure including scaffolding, raking out joints and curing.

a) 4" (100 mm) thick solid block masonry

Cu.m. i) Cement sand mortar 1 : 4

1. Labour					
For moulding & stacking from item 9-1(a)					955.84
For masonry:					
Mason	7.00	Hrs	@	125.00	875.00
Labourer	7.00	Hrs	@	87.50	612.50
Mistri	0.35	Hrs	@	110.00	38.50
Bahishti	5.25	Hrs	@	87.50	459.38
					<u>2,941.22</u>
Contractor's profit & overhead				20%	588.24
Total Labour rate					<u>3,529.46</u>
					3,529

2. Material

Same as item 9-1(a)1

3. Scaffolding 1% 69.42

Total of 2 & 3 4,070.34

Contractor's profit & overhead 20% 814.07

Total 4,884.40

Total Composite rate 8,413.87 **8,414**

Cu.m. ii) Cement sand mortar 1 : 5

1. Labour

Same as item 9-6(a)1

Contractor's profit & overhead 20% 588.24

Total Labour rate 3,529.46 **3,529**

2. Material

Same as item 9-1(a)2

3. Scaffolding 1% 68.55

Total of 2 & 3 3,982.56

Contractor's profit & overhead 20% 796.51

Unit	Description	Component Cost		Unit Rate
			(Rs)	(Rs)
	Total Composite rate		8,308.54	8,309
Cu.m. iii) Cement sand mortar 1 : 6				
	1. Labour			
	Same as item 9-6(a)1		2,941.22	
	Contractor's profit & overhead	20%	588.24	
	Total Labour rate		<u>3,529.46</u>	3,529
	2. Material			
	Same as item 9-1(a)3		3,873.40	
	3. Scaffolding	1%	68.15	
	Total of 2 & 3		<u>3,941.55</u>	
	Contractor's profit & overhead	20%	788.31	
	Total Composite rate		<u>8,259.32</u>	8,259
b) 6" (150 mm) thick solid block masonry				
Cu.m. i) Cement sand mortar 1 : 4				
	1. Labour			
	For moulding & stacking from item 9-1(b)		146.19	
	For masonry:			
	Mason	6.50	Hrs @ 125.00	812.50
	Labourer	6.50	Hrs @ 87.50	568.75
	Mistri	0.35	Hrs @ 110.00	38.50
	Bahishti	4.75	Hrs @ 87.50	415.63
				<u>1,981.56</u>
	Contractor's profit & overhead		20%	396.31
	Total Labour rate			<u>2,377.88</u>
	2. Material			
	Same as item 9-1(a)1		4,000.92	
	3. Scaffolding	1%	59.82	
	Total of 2 & 3		<u>4,060.74</u>	
	Contractor's profit & overhead	20%	812.15	
	Total Composite rate		<u>7,250.76</u>	7,251
Cu.m. ii) Cement sand mortar 1 : 5				
	1. Labour			
	Same as item 9-6(b)1		1,981.56	
	Contractor's profit & overhead	20%	396.31	
	Total Labour rate		<u>2,377.88</u>	2,378
	2. Material			
	Same as item 9-1(a)2		3,914.01	
	3. Scaffolding	1%	58.96	
	Total of 2 & 3		<u>3,972.97</u>	
	Contractor's profit & overhead	20%	794.59	
	Total Composite rate		<u>7,145.44</u>	7,145
Cu.m. iii) Cement sand mortar 1 : 6				
	1. Labour			
	Same as item 9-6(b)1		1,981.56	
	Contractor's profit & overhead	20%	396.31	
	Total Labour rate		<u>2,377.88</u>	2,378
	2. Material			
	Same as item 9-1(a)3		3,873.40	
	3. Scaffolding	1%	58.55	
	Total of 2 & 3		<u>3,931.95</u>	
	Contractor's profit & overhead	20%	786.39	
	Total Composite rate		<u>7,096.22</u>	7,096

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
c) 8" (200 mm) thick solid block masonry				
Cu.m. i) Cement sand mortar 1 : 4				
1. Labour				
For moulding & stacking from item 9-1(c)				
For masonry:				
Mason	5.50	Hrs	@	125.00
Labourer	5.50	Hrs	@	87.50
Mistri	0.35	Hrs	@	110.00
Bahishti	4.25	Hrs	@	87.50
				371.88
				2,143.94
Contractor's profit & overhead				20%
Total Labour rate				428.79
				2,572.73
2. Material				
Same as item 9-1(a)1				
				4,000.92
3. Scaffolding				
				1%
				61.45
Total of 2 & 3				4,062.36
Contractor's profit & overhead				20%
Total Composite rate				812.47
				7,447.57
				7,448
Cu.m. ii) Cement sand mortar 1 : 5				
1. Labour				
Same as item 9-6(c)1				
				2,143.94
Contractor's profit & overhead				20%
Total Labour rate				428.79
				2,572.73
2. Material				
Same as item 9-1(a)2				
				3,914.01
3. Scaffolding				
				1%
				60.58
Total of 2 & 3				3,974.59
Contractor's profit & overhead				20%
Total Composite rate				794.92
				7,342.24
				7,342
Cu.m. iii) Cement sand mortar 1 : 6				
1. Labour				
Same as item 9-6(c)1				
				2,143.94
Contractor's profit & overhead				20%
Total Labour rate				428.79
				2,572.73
2. Material				
Same as item 9-1(a)3				
				3,873.40
3. Scaffolding				
				1%
				60.17
Total of 2 & 3				3,933.58
Contractor's profit & overhead				20%
Total Composite rate				786.72
				7,293.02
				7,293
d) 12" (300 mm) thick solid block masonry				
Cu.m. i) Cement sand mortar 1 : 4				
1. Labour				
For moulding & stacking from item 9-1(d)				
For masonry:				
Mason	3.50	Hrs	@	125.00
Labourer	3.50	Hrs	@	87.50
Mistri	0.25	Hrs	@	110.00
Bahishti	3.50	Hrs	@	87.50
				306.25
				1,491.70
Contractor's profit & overhead				20%
Total Labour rate				298.34
				1,790.04
				1,790
2. Material				
Same as item 9-1(a)1				
				4,000.92
3. Scaffolding				
				1%
				54.93

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Total of 2 & 3		4,055.84	
	Contractor's profit & overhead	20%	811.17	
	Total Composite rate		6,657.05	6,657
Cu.m. ii)	Cement sand mortar 1 : 5			
	1. Labour			
	Same as item 9-6(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		1,790.04	1,790
	2. Material			
	Same as item 9-1(a)2		3,914.01	
	3. Scaffolding	1%	54.06	
	Total of 2 & 3		3,968.07	
	Contractor's profit & overhead	20%	793.61	
	Total Composite rate		6,551.72	6,552
Cu.m. iii)	Cement sand mortar 1 : 6			
	1. Labour			
	Same as item 9-6(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		1,790.04	1,790
	2. Material			
	Same as item 9-1(a)3		3,873.40	
	3. Scaffolding	1%	53.65	
	Total of 2 & 3		3,927.05	
	Contractor's profit & overhead	20%	785.41	
	Total Composite rate		6,502.50	6,503
	Item No. 9-7			
	Same as item 9-6 but in 1:3:6 cement concrete block masonry.			
Cu.m. a)	4" (100 mm) thick solid block masonry			
i)	Cement sand mortar 1 : 3			
	1. Labour			
	Same as item 9-6(a)1		2,941.22	
	Contractor's profit & overhead	20%	588.24	
	Total Labour rate		3,529.46	3,529
	2. Material			
	Same as item 9-2(a)1		4,792.85	
	3. Scaffolding	1%	77.34	
	Total of 2 & 3		4,870.19	
	Contractor's profit & overhead	20%	974.04	
	Total		5,844.22	
	Total Composite rate		9,373.69	9,374
Cu.m. ii)	Cement sand mortar 1 : 4			
	1. Labour			
	Same as item 9-6(a)1		2,941.22	
	Contractor's profit & overhead	20%	588.24	
	Total Labour rate		3,529.46	3,529
	2. Material			
	Same as item 9-2(a)2		4,665.33	
	3. Scaffolding	1%	76.07	
	Total of 2 & 3		4,741.40	
	Contractor's profit & overhead	20%	948.28	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total	5,689.68	
	Total Composite rate	9,219.14	9,219
Cu.m. iii) Cement sand mortar 1 : 5			
	1. Labour		
	Same as item 9-6(a)1	2,941.22	
	Contractor's profit & overhead	20% 588.24	
	Total Labour rate	<u>3,529.46</u>	3,529
	2. Material		
	Same as item 9-2(a)3	4,590.95	
	3. Scaffolding	1% 75.32	
	Total of 2 & 3	<u>4,666.27</u>	
	Contractor's profit & overhead	20% 933.25	
	Total	<u>5,599.53</u>	
	Total Composite rate	9,128.99	9,129
Cu.m. iv) Cement sand mortar 1 : 6			
	1. Labour		
	Same as item 9-6(a)1	2,941.22	
	Contractor's profit & overhead	20% 588.24	
	Total Labour rate	<u>3,529.46</u>	3,529
	2. Material		
	Same as item 9-2(a)4	4,537.82	
	3. Scaffolding	1% 74.79	
	Total of 2 & 3	<u>4,612.61</u>	
	Contractor's profit & overhead	20% 922.52	
	Total	<u>5,535.13</u>	
	Total Composite rate	9,064.60	9,065
b) 6" (150 mm) thick solid block masonry			
Cu.m. i) Cement sand mortar 1 : 3			
	1. Labour		
	Same as item 9-6(b)1	1,981.56	
	Contractor's profit & overhead	20% 396.31	
	Total Labour rate	<u>2,377.88</u>	2,378
	2. Material		
	Same as item 9-2(a)1	4,792.85	
	3. Scaffolding	1% 67.74	
	Total of 2 & 3	<u>4,860.59</u>	
	Contractor's profit & overhead	20% 972.12	
	Total	<u>5,832.71</u>	
	Total Composite rate	8,210.58	8,211
Cu.m. ii) Cement sand mortar 1 : 4			
	1. Labour		
	Same as item 9-6(b)1	1,981.56	
	Contractor's profit & overhead	20% 396.31	
	Total Labour rate	<u>2,377.88</u>	2,378
	2. Material		
	Same as item 9-2(a)2	4,665.33	
	3. Scaffolding	1% 66.47	
	Total of 2 & 3	<u>4,731.80</u>	
	Contractor's profit & overhead	20% 946.36	
	Total	<u>5,678.16</u>	
	Total Composite rate	8,056.04	8,056
Cu.m. iii) Cement sand mortar 1 : 5			

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	1. Labour			
	Same as item 9-6(b)1		1,981.56	
	Contractor's profit & overhead	20%	396.31	
	Total Labour rate		<u>2,377.88</u>	2,378
	2. Material			
	Same as item 9-2(a)3		4,590.95	
	3. Scaffolding	1%	65.73	
	Total of 2 & 3		<u>4,656.68</u>	
	Contractor's profit & overhead	20%	931.34	
	Total		<u>5,588.01</u>	
	Total Composite rate		7,965.89	7,966
	Cu.m. iv) Cement sand mortar 1 : 6			
	1. Labour			
	Same as item 9-6(b)1		1,981.56	
	Contractor's profit & overhead	20%	396.31	
	Total Labour rate		<u>2,377.88</u>	2,378
	2. Material			
	Same as item 9-2(a)4		4,537.82	
	3. Scaffolding	1%	65.19	
	Total of 2 & 3		<u>4,603.02</u>	
	Contractor's profit & overhead	20%	920.60	
	Total		<u>5,523.62</u>	
	Total Composite rate		7,901.49	7,902
	c) 8" (200 mm) thick solid block masonry			
	Cu.m. i) Cement sand mortar 1 : 3			
	1. Labour			
	Same as item 9-6(c)1		2,143.94	
	Contractor's profit & overhead	20%	428.79	
	Total Labour rate		<u>2,572.73</u>	2,573
	2. Material			
	Same as item 9-2(a)1		4,792.85	
	3. Scaffolding	1%	69.37	
	Total of 2 & 3		<u>4,862.21</u>	
	Contractor's profit & overhead	20%	972.44	
	Total		<u>5,834.66</u>	
	Total Composite rate		8,407.39	8,407
	Cu.m. ii) Cement sand mortar 1 : 4			
	1. Labour			
	Same as item 9-6(c)1		2,143.94	
	Contractor's profit & overhead	20%	428.79	
	Total Labour rate		<u>2,572.73</u>	2,573
	2. Material			
	Same as item 9-2(a)2		4,665.33	
	3. Scaffolding	1%	68.09	
	Total of 2 & 3		<u>4,733.43</u>	
	Contractor's profit & overhead	20%	946.69	
	Total		<u>5,680.11</u>	
	Total Composite rate		8,252.84	8,253

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Cu.m. iii) Cement sand mortar 1 : 5			
1. Labour			
Same as item 9-6(c)1		2,143.94	
Contractor's profit & overhead	20%	428.79	
Total Labour rate		<u>2,572.73</u>	2,573
2. Material			
Same as item 9-2(a)3		4,590.95	
3. Scaffolding	1%	67.35	
Total of 2 & 3		<u>4,658.30</u>	
Contractor's profit & overhead	20%	931.66	
Total		<u>5,589.96</u>	
Total Composite rate		8,162.69	8,163
Cu.m. iv) Cement sand mortar 1 : 6			
1. Labour			
Same as item 9-6(c)1		2,143.94	
Contractor's profit & overhead	20%	428.79	
Total Labour rate		<u>2,572.73</u>	2,573
2. Material			
Same as item 9-2(a)4		4,537.82	
3. Scaffolding	1%	66.82	
Total of 2 & 3		<u>4,604.64</u>	
Contractor's profit & overhead	20%	920.93	
Total		<u>5,525.57</u>	
Total Composite rate		8,098.30	8,098
d) 12" (300 mm) thick solid block masonry			
Cu.m. i) Cement sand mortar 1 : 3			
1. Labour			
Same as item 9-6(d)1		1,491.70	
Contractor's profit & overhead	20%	298.34	
Total Labour rate		<u>1,790.04</u>	1,790
2. Material			
Same as item 9-2(a)1		4,792.85	
3. Scaffolding	1%	62.85	
Total of 2 & 3		<u>4,855.69</u>	
Contractor's profit & overhead	20%	971.14	
Total Composite rate		<u>7,616.87</u>	7,617
Cu.m. ii) Cement sand mortar 1 : 4			
1. Labour			
Same as item 9-6(d)1		1,491.70	
Contractor's profit & overhead	20%	298.34	
Total Labour rate		<u>1,790.04</u>	1,790
2. Material			
Same as item 9-2(a)2		4,665.33	
3. Scaffolding	1%	61.57	
Total of 2 & 3		<u>4,726.90</u>	
Contractor's profit & overhead	20%	945.38	
Total Composite rate		<u>7,462.32</u>	7,462
Cu.m. iii) Cement sand mortar 1 : 5			
1. Labour			
Same as item 9-6(d)1		1,491.70	
Contractor's profit & overhead	20%	298.34	
Total Labour rate		<u>1,790.04</u>	1,790
2. Material			

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Same as item 9-2(a)3		4,590.95	
	3. Scaffolding	1%	60.83	
	Total of 2 & 3		4,651.78	
	Contractor's profit & overhead	20%	930.36	
	Total Composite rate		7,372.17	7,372
Cu.m. iv) Cement sand mortar 1 : 6				
	1. Labour			
	Same as item 9-6(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		1,790.04	1,790
	2. Material			
	Same as item 9-2(a)4		4,537.82	
	3. Scaffolding	1%	60.30	
	Total of 2 & 3		4,598.12	
	Contractor's profit & overhead	20%	919.62	
	Total		5,517.74	
	Total Composite rate		7,307.78	7,308
Item No. 9-8				
Same as item 9-6 but in 1:2:4 cement concrete block masonry.				
a) 4" (100 mm) thick solid block masonry				
Cu.m. i) Cement sand mortar 1 : 2				
	1. Labour			
	Same as item 9-6(a)1		2,941.22	
	Contractor's profit & overhead	20%	588.24	
	Total Labour rate		3,529.46	3,529
	2. Material			
	Same as item 9-3(a)1		5,594.64	
	3. Scaffolding	1%	85.36	
	Total of 2 & 3		5,680.00	
	Contractor's profit & overhead	20%	1,136.00	
	Total Composite rate		10,345.46	10,345
Cu.m. ii) Cement sand mortar 1 : 3				
	1. Labour			
	Same as item 9-6(a)1		2,941.22	
	Contractor's profit & overhead	20%	588.24	
	Total Labour rate		3,529.46	3,529
	2. Material			
	Same as item 9-3(a)2		5,357.48	
	3. Scaffolding	1%	82.99	
	Total of 2 & 3		5,440.47	
	Contractor's profit & overhead	20%	1,088.09	
	Total Composite rate		10,058.03	10,058
Cu.m. iii) Cement sand mortar 1 : 4				
	1. Labour			
	Same as item 9-6(a)1		2,941.22	
	Contractor's profit & overhead	20%	588.24	
	Total Labour rate		3,529.46	3,529
	2. Material			
	Same as item 9-3(a)3		5,229.97	
	3. Scaffolding	1%	81.71	
	Total of 2 & 3		5,311.68	
	Contractor's profit & overhead	20%	1,062.34	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Composite rate	9,903.48	9,904
Cu.m. iv)	Cement sand mortar 1 : 5		
	1. Labour		
	Same as item 9-6(a)1	2,941.22	
	Contractor's profit & overhead	20% 588.24	
	Total Labour rate	<u>3,529.46</u>	3,529
	2. Material		
	Same as item 9-3(a)4	5,155.59	
	3. Scaffolding	1% 80.97	
	Total of 2 & 3	<u>5,236.56</u>	
	Contractor's profit & overhead	20% 1,047.31	
	Total	<u>6,283.87</u>	
	Total Composite rate	9,813.33	9,813
Cu.m. v)	Cement sand mortar 1 : 6		
	1. Labour		
	Same as item 9-6(a)1	2,941.22	
	Contractor's profit & overhead	20% 588.24	
	Total Labour rate	<u>3,529.46</u>	3,529
	2. Material		
	Same as item 9-3(a)5	5,102.46	
	3. Scaffolding	1% 80.44	
	Total of 2 & 3	<u>5,182.89</u>	
	Contractor's profit & overhead	20% 1,036.58	
	Total	<u>6,219.47</u>	
	Total Composite rate	9,748.94	9,749
	b) 6" (150 mm) thick solid block masonry		
Cu.m. i)	Cement sand mortar 1 : 2		
	1. Labour		
	Same as item 9-6(b)1	1,981.56	
	Contractor's profit & overhead	20% 396.31	
	Total Labour rate	<u>2,377.88</u>	2,378
	2. Material		
	Same as item 9-3(a)1	5,594.64	
	3. Scaffolding	1% 75.76	
	Total of 2 & 3	<u>5,670.40</u>	
	Contractor's profit & overhead	20% 1,134.08	
	Total	<u>6,804.48</u>	
	Total Composite rate	9,182.36	9,182
Cu.m. ii)	Cement sand mortar 1 : 3		
	1. Labour		
	Same as item 9-6(b)1	1,981.56	
	Contractor's profit & overhead	20% 396.31	
	Total Labour rate	<u>2,377.88</u>	2,378
	2. Material		
	Same as item 9-3(a)2	5,357.48	
	3. Scaffolding	1% 73.39	
	Total of 2 & 3	<u>5,430.87</u>	
	Contractor's profit & overhead	20% 1,086.17	
	Total	<u>6,517.05</u>	
	Total Composite rate	8,894.92	8,895

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Cu.m. iii) Cement sand mortar 1 : 4			
1. Labour			
Same as item 9-6(b)1		1,981.56	
Contractor's profit & overhead	20%	396.31	
Total Labour rate		<u>2,377.88</u>	2,378
2. Material			
Same as item 9-3(a)3		5,229.97	
3. Scaffolding	1%	72.12	
Total of 2 & 3		<u>5,302.08</u>	
Contractor's profit & overhead	20%	1,060.42	
Total		<u>6,362.50</u>	
Total Composite rate		8,740.38	8,740
Cu.m. iv) Cement sand mortar 1 : 5			
1. Labour			
Same as item 9-6(b)1		1,981.56	
Contractor's profit & overhead	20%	396.31	
Total Labour rate		<u>2,377.88</u>	2,378
2. Material			
Same as item 9-3(a)4		5,155.59	
3. Scaffolding	1%	71.37	
Total of 2 & 3		<u>5,226.96</u>	
Contractor's profit & overhead	20%	1,045.39	
Total		<u>6,272.35</u>	
Total Composite rate		8,650.23	8,650
Cu.m. v) Cement sand mortar 1 : 6			
1. Labour			
Same as item 9-6(b)1		1,981.56	
Contractor's profit & overhead	20%	396.31	
Total Labour rate		<u>2,377.88</u>	2,378
2. Material			
Same as item 9-3(a)5		5,102.46	
3. Scaffolding	1%	70.84	
Total of 2 & 3		<u>5,173.30</u>	
Contractor's profit & overhead	20%	1,034.66	
Total		<u>6,207.96</u>	
Total Composite rate		8,585.83	8,586
c) 8" (200 mm) thick solid block masonry			
Cu.m. i) Cement sand mortar 1 : 2			
1. Labour			
Same as item 9-6(c)1		2,143.94	
Contractor's profit & overhead	20%	428.79	
Total Labour rate		<u>2,572.73</u>	2,573
2. Material			
Same as item 9-3(a)1		5,594.64	
3. Scaffolding	1%	77.39	
Total of 2 & 3		<u>5,672.02</u>	
Contractor's profit & overhead	20%	1,134.40	
Total		<u>6,806.43</u>	
Total Composite rate		9,379.16	9,379
Cu.m. ii) Cement sand mortar 1 : 3			
1. Labour			
Same as item 9-6(c)1		2,143.94	
Contractor's profit & overhead	20%	428.79	
Total Labour rate		<u>2,572.73</u>	2,573

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	2. Material			
	Same as item 9-3(a)2		5,357.48	
	3. Scaffolding	1%	75.01	
	Total of 2 & 3		5,432.50	
	Contractor's profit & overhead	20%	1,086.50	
	Total		6,518.99	
	Total Composite rate		9,091.73	9,092
Cu.m. iii)	Cement sand mortar 1 : 4			
	1. Labour			
	Same as item 9-6(c)1		2,143.94	
	Contractor's profit & overhead	20%	428.79	
	Total Labour rate		2,572.73	2,573
	2. Material			
	Same as item 9-3(a)3		5,229.97	
	3. Scaffolding	1%	73.74	
	Total of 2 & 3		5,303.71	
	Contractor's profit & overhead	20%	1,060.74	
	Total		6,364.45	
	Total Composite rate		8,937.18	8,937
Cu.m. iv)	Cement sand mortar 1 : 5			
	1. Labour			
	Same as item 9-6(c)1		2,143.94	
	Contractor's profit & overhead	20%	428.79	
	Total Labour rate		2,572.73	2,573
	2. Material			
	Same as item 9-3(a)4		5,155.59	
	3. Scaffolding	1%	73.00	
	Total of 2 & 3		5,228.58	
	Contractor's profit & overhead	20%	1,045.72	
	Total		6,274.30	
	Total Composite rate		8,847.03	8,847
Cu.m. v)	Cement sand mortar 1 : 6			
	1. Labour			
	Same as item 9-6(c)1		2,143.94	
	Contractor's profit & overhead	20%	428.79	
	Total Labour rate		2,572.73	2,573
	2. Material			
	Same as item 9-3(a)5		5,102.46	
	3. Scaffolding	1%	72.46	
	Total of 2 & 3		5,174.92	
	Contractor's profit & overhead	20%	1,034.98	
	Total		6,209.91	
	Total Composite rate		8,782.64	8,783
d)	12" (300 mm) thick solid block masonry			
Cu.m. i)	Cement sand mortar 1 : 2			
	1. Labour			
	Same as item 9-6(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		1,790.04	1,790
	2. Material			
	Same as item 9-3(a)1		5,594.64	
	3. Scaffolding	1%	70.86	
	Total of 2 & 3		5,665.50	

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Contractor's profit & overhead	20%	1,133.10	
	Total		6,798.60	
	Total Composite rate		8,588.64	8,589
Cu.m. ii)	Cement sand mortar 1 : 3			
	1. Labour			
	Same as item 9-6(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		1,790.04	1,790
	2. Material			
	Same as item 9-3(a)2		5,357.48	
	3. Scaffolding	1%	68.49	
	Total of 2 & 3		5,425.97	
	Contractor's profit & overhead	20%	1,085.19	
	Total		6,511.17	
	Total Composite rate		8,301.21	8,301
Cu.m. iii)	Cement sand mortar 1 : 4			
	1. Labour			
	Same as item 9-6(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		1,790.04	1,790
	2. Material			
	Same as item 9-3(a)3		5,229.97	
	3. Scaffolding	1%	67.22	
	Total of 2 & 3		5,297.19	
	Contractor's profit & overhead	20%	1,059.44	
	Total		6,356.62	
	Total Composite rate		8,146.66	8,147
Cu.m. iv)	Cement sand mortar 1 : 5			
	1. Labour			
	Same as item 9-6(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		1,790.04	1,790
	2. Material			
	Same as item 9-3(a)4		5,155.59	
	3. Scaffolding	1%	66.47	
	Total of 2 & 3		5,222.06	
	Contractor's profit & overhead	20%	1,044.41	
	Total		6,266.47	
	Total Composite rate		8,056.51	8,057
Cu.m. v)	Cement sand mortar 1 : 6			
	1. Labour			
	Same as item 9-6(d)1		1,491.70	
	Contractor's profit & overhead	20%	298.34	
	Total Labour rate		1,790.04	1,790
	2. Material			
	Same as item 9-3(a)5		5,102.46	
	3. Scaffolding	1%	65.94	
	Total of 2 & 3		5,168.40	
	Contractor's profit & overhead	20%	1,033.68	
	Total		6,202.08	
	Total Composite rate		7,992.12	7,992

Item No. 9-9

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Extra for masonry of any description in pillars and columns of any shape over the rate of respective item

%	The wastage of blocks and mortar assessed as:					
	Blocks	7.5%				
	Mortar	10%				
	The rate for percentage increase worked out for item 9-6(a)					
	Concrete mix		0.91	Cu.m.		
	Mortar		0.09	Cu.m.		
			<u>1.00</u>	Cu.m.		
	Concrete mix		0.91	Cu.m.		
	Wastage	10%	0.09	Cu.m.		
			<u>1.00</u>	Cu.m.		
	Mortar mix		0.09	Cu.m.		
	Wastage	10%	0.01	Cu.m.		
			<u>0.10</u>	Cu.m.		
	1. Labour					
	For moulding and stacking blocks		151.33	Nos.		
	Wastage	8%	11.35	Nos.		
			<u>162.68</u>	Nos.	@	6.02
						978.60
	For Masonry:					
	Mason		8.50	Hrs	@	125.00
	Labourer		8.50	Hrs	@	87.50
	Mistri		0.50	Hrs	@	110.00
	Bahishti		5.50	Hrs	@	87.50
						<u>481.25</u>
						3,321.10
	Contractor's profit & overhead				20%	664.22
	Total Labour rate					<u>3,985.32</u>
	2. Material					
	Concrete mix as per item 5-8 (e)		1.00	Cu.m.	@	3682.80
	Mortar mix as per Table 11(a)		0.13	Cu.m.	@	4839.30
						<u>629.11</u>
						4,307.49
	3. Scaffolding					
	Total of 2 & 3				1%	86.07
						4,393.56
	Contractor's profit & overhead				20%	878.71
	Total					<u>5,272.27</u>
	Total Composite rate					9,257.59
	Less block masonry as per item 9-6(a)1					8,413.85 A
						<u>843.74</u>
	Percentage increase	843.74	/ A x 100			10.03

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Item No. 9-10-1

Extra for masonry of any description in arches, architrave coping and cornice of any shape over the rate of the respective item

%	No. of blocks in Cu.m.					
			50.44			
	Wastage	10%	5.04			
	Total		<u>55.49</u>			
	Mortar		0.09	Cu.m.		
	Concrete		0.91	Cu.m.		
			<u>1.00</u>	Cu.m.		
	Mortar including 10% wastage		0.10	Cu.m.		
	Concrete including 10% wastage		1.00	Cu.m.		
	Rate for percentage increase worked out for 1:3:6 cement concrete in item 9-7(d)1					
	1. Labour					
	For moulding & stacking blocks		55.49	Nos.	@	6.02
						333.79
	For masonry:					
	Mason		8.50	Hrs	@	125.00
	Labourer		11.00	Hrs	@	87.50
	Mistri		0.50	Hrs	@	110.00
	Bahishti		5.50	Hrs	@	87.50
						<u>481.25</u>
						2,895.04
	Contractor's profit & overhead				20%	579.01
	Total Labour rate					<u>3,474.04</u>
	2. Material					

Unit	Description						Component Cost	Unit Rate
							(Rs)	(Rs)
Concrete (1 : 3 : 6)	Item 5- 8(d)2	1.00	Cu.m.	@	4379.69	4,374.43		
Mortar (1 : 3)	Table 11(a)	0.10	Cu.m.	@	6099.30	617.25		
						<u>4,991.68</u>		
3. Shuttering								
Area:	*x1/2x3x300m	1.41	Sq.m.		(A)			
Cubical Content	//x3x.30x.30	0.85	Cu.m.		(B)			
	A / B	1.66	Sq.m.		377.90	626.87		
4. Scaffolding								
	0.43							
Extra for arch work	<u>0.22</u>							
	0.65	1.66	Sq.m.	@	7.05	11.69		
Total of 2, 3 & 4						<u>5,630.25</u>		
Contractor's profit & overhead					20%	1,126.05		
Total						<u>6,756.30</u>		
Total Composite rate						10,230.34		
Less block masonry as per item 9-7(d)j						7,616.85	A	
				Balance		<u>2,613.49</u>		
Percentage increase	2613.49	/ A x 100				34.31	34	

Item No. 9-11-1

Cu.m. Extra for masonry of any description of bonding old and new masonry including making recesses in old masonry. The measurement will be made for the actual new masonry inserted in old masonry

Labour							
Mason		14.00	Hrs	@	125.00	1,750.00	
Labourer		5.50	Hrs	@	87.50	481.25	
Sundries					5%	111.55	
						<u>2,342.80</u>	
Contractor's profit & overhead					20%	468.56	
Total Labour rate						<u>2,811.36</u>	2,811

Item No. 9-12-1

Cu.m. Extra for work in first floor above ground floor.

Labour							
Mason		1.50	Hrs	@	125.00	187.50	
Labourer		2.50	Hrs	@	87.50	218.75	
Mistri		0.20	Hrs	@	110.00	22.00	
Bahishti		0.20	Hrs	@	87.50	17.50	
Sundries					5%	22.29	
						<u>468.04</u>	
Contractor's profit & overhead					20%	93.61	
Total Labour rate						<u>561.65</u>	562

Item No. 9-13-1

Cu.m. Extra for work in every additional floor above first floor

Labour							
Mason		1.50	Hrs	@	125.00	187.50	
Labourer		1.50	Hrs	@	87.50	131.25	
Mistri		0.20	Hrs	@	110.00	22.00	
Bahishti		0.20	Hrs	@	87.50	17.50	
Sundries					5%	17.91	
						<u>376.16</u>	
Contractor's profit & overhead					20%	75.23	
Total Labour rate						<u>451.40</u>	451

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 9-14-1					
Cu.m.	Extra for work in arches in first floor above ground floor.				
	Labour				
	Mason	1.50	Hrs	@	125.00
	Labourer	3.75	Hrs	@	87.50
	Mistri	0.20	Hrs	@	110.00
	Bahishti	0.20	Hrs	@	87.50
	Sundries				5%
					27.76
					582.88
	Contractor's profit & overhead			20%	116.58
	Total Labour rate				699.46
					699
Item No. 9-15-1					
Cu.m.	Extra for work in arches in every additional floor above first floor.				
	Labour				
	Mason	1.50	Hrs	@	125.00
	Labourer	2.75	Hrs	@	87.50
	Mistri	0.20	Hrs	@	110.00
	Bahishti	0.20	Hrs	@	87.50
	Sundries				5%
					23.38
					491.01
	Contractor's profit & overhead			20%	98.20
	Total Labour rate				589.21
					589
Item No. 9-16-1					
Cu.m.	Extra for cement concrete solid block masonry of any description in any floor or other than building for every 5 ft (1.5m) height or part thereof beyond 15 ft (4.5m)				
	Considering a hall 45' x 30' x 40' high and thickness of wall as 1.5', the length of long wall thus becomes 45 + 1.5 + 1.5 = 48'.				
	Contents = 48 x 1.5 x 40	2880.00	Cu.ft.	=	81.56 Cu.m
	Material for scaffolding				
	Partial or similar wood posts (4" x 4" section)				
	Vertical at every 5 ft = 2 x 9 x 40'	720.00	Ft.		
	Horizontal for staging at 5 ft. height = 2 x 8 x 6 x	672.00	Ft.		
	Crosses at every 6' 2 x 1/2 x 9 x 7 x 10	630.00	Ft.		
		2022.00	Ft.		
	Add 10% for lap	202.20	Ft.		
		2224.20	Ft.		
	= 2224 x 4/12 x 4/12	247.13	Cu.ft.		
	2" thick planks for platform = 2x48.0x2.5x1/6	40.00	Cu.ft.		
		287.13	Cu.ft.		
	Wastage 15%	43.07	Cu.ft.		
		330.20	Cu.ft.		
	1. Labour				
	a) For assembling, removal and clearance:				
	Carpenter	120.00	Hrs	@	125.00
	Helper	40.00	Hrs	@	75.00
	b) For compensating progress of work, carrying material and curing				
	Labourer	880.00	Hrs	@	87.50
	Bahishti	52.00	Hrs	@	87.50
	Mason	340.00	Hrs	@	125.00
					42,500.00
					142,050.00
	Contractor's profit & overhead			20%	28,410.00
	Total Labour rate				418.00
					418

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
2. Material					
Wood - Partal	330.20	Cu.ft.	@	1200.00	396,240.00
Sawing charges	330.20	Cu.ft.	@	87.50	28,892.50
Coir string	15.00	Kg.	@	50.00	750.00
Nail of all sizes	9.00	Kg.	@	90.00	810.00
					<u>426,692.50</u>
Assumed this timber can be used for 30 times, thus cost of timber in one operation	426693	/		30	14,223.08
Add for each operation for replacement of strings & repairs etc.				5%	711.15
Total					156,984.24
Contractor's profit & overhead				20%	31,396.85
Total Composite rate					<u>461.94</u>
					462

Unit	Description	Component Cost		Unit Rate	
				(Rs)	(Rs)
Item No.10.1					
Providing and laying 1:3:6 cement concrete block masonry using Coarse Sand and Approved crushed aggregate 1/2" (13mm) & down gauge including scaffolding, raking out joints and curing in basement.					
Cu.m.	a) 4" (100 mm) thick hollow block masonry				
	i) Cement sand mortar 1 : 3				
	1. Labour	1.25 times of item 9.1A			3305.43
	Contractor's profit & overhead		20%		661.09
	Total Labour rate				<u>3966.52</u> 3,967
	2. Material				
	Concrete as per item 5-8(d)	0.56	Cu.m.	@	4379.69
	Mortar as per Table-11(a)	0.07	Cu.m.	@	6099.30
					<u>2879.58</u>
	3. Scaffolding			1.5%	92.78
	Total of 2 & 3				2972.35
	Contractor's profit & overhead		20%		594.47
	Total				<u>3566.82</u>
	Total Composite rate				<u>7533.34</u> 7,533
	ii) Cement sand mortar 1 : 4				
	1. Labour				3305.43
	Contractor's profit & overhead		20%		661.09
	Total Labour rate				<u>3966.52</u> 3,967
	2. Material				
	Concrete as per item 5-8(d)	0.56	Cu.m.	@	4379.69
	Mortar as per Table-11(a)	0.07	Cu.m.	@	4839.30
					<u>2791.38</u>
	3. Scaffolding			1.5%	91.00
	Total of 2 & 3				2882.38
	Contractor's profit & overhead		20%		576.48
	Total				<u>3458.85</u>
	Total Composite rate				<u>7425.37</u> 7,425
	iii) Cement sand mortar 1 : 5				
	1. Labour				3305.43
	Contractor's profit & overhead		20%		661.09
	Total Labour rate				<u>3966.52</u> 3,967
	2. Material				
	Concrete as per item 5-8(d)	0.56	Cu.m.	@	4379.69
	Mortar as per Table-11(a)	0.07	Cu.m.	@	4104.30
					<u>2739.93</u>
	3. Scaffolding			1.5%	91.00
	Total of 2 & 3				2830.93
	Contractor's profit & overhead		20%		566.19
	Total				<u>3397.11</u>
	Total Composite rate				<u>7363.63</u> 7,364
	iv) Cement sand mortar 1 : 6				
	1. Labour				3305.43
	Contractor's profit & overhead		20%		661.09
	Total Labour rate				<u>3966.52</u> 3,967
	2. Material				
	Concrete as per item 5-8(d)	0.56	Cu.m.	@	4379.69
	Mortar as per Table-11(a)	0.07	Cu.m.	@	3579.30
					<u>2703.18</u>
	3. Scaffolding			1.5%	90.00
	Total of 2 & 3				2793.18
	Contractor's profit & overhead		20%		558.64
	Total				<u>3351.81</u>
	Total Composite rate				<u>7318.33</u> 7,318

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Cu.m. b) 6" (150 mm) thick hollow block masonry

i) Cement sand mortar 1 : 3

1. Labour	1.25 times of item 9.1B1				2105.86	
Contractor's profit & overhead				20%	421.17	
Total Labour rate					2527.03	2,527
2. Material						
Concrete as per item 5-8(d)	0.42	Cu.m.	@	4379.69	1839.47	
Mortar as per Table-11(a)	0.06	Cu.m.	@	6099.30	365.96	
					2205.43	
3. Scaffolding						
Total of 2 & 3				1.5%	65.00	
Contractor's profit & overhead				20%	2270.43	
Total Composite rate					454.09	
					5251.55	5,252

ii) Cement sand mortar 1 : 4

1. Labour					2105.86	
Contractor's profit & overhead				20%	421.17	
Total Labour rate					2527.03	2,527
2. Material						
Concrete as per item 5-8(d)	0.42	Cu.m.	@	4379.69	1839.47	
Mortar as per Table-11(a)	0.06	Cu.m.	@	4839.30	290.36	
					2129.83	
3. Scaffolding						
Total of 2 & 3				1.5%	64.00	
Contractor's profit & overhead				20%	2193.83	
Total					438.77	
Total Composite rate					2632.59	
					5159.63	5,160

iii) Cement sand mortar 1 : 5

1. Labour					2105.86	
Contractor's profit & overhead				20%	421.17	
Total Labour rate					2527.03	2,527
2. Material						
Concrete as per item 5-8(d)	0.42	Cu.m.	@	4379.69	1839.47	
Mortar as per Table-11(a)	0.06	Cu.m.	@	4104.30	246.26	
					2085.73	
3. Scaffolding						
Total of 2 & 3				1.5%	63.00	
Contractor's profit & overhead				20%	2148.73	
Total					429.75	
Total Composite rate					2578.47	
					5105.51	5,106

iv) Cement sand mortar 1 : 6

1. Labour					2105.86	
Contractor's profit & overhead				20%	421.17	
Total Labour rate					2527.03	2,527
2. Material						
Concrete as per item 5-8(d)	0.42	Cu.m.	@	4379.69	1839.47	
Mortar as per Table-11(a)	0.06	Cu.m.	@	3579.30	214.76	
					2054.23	
3. Scaffolding						
Total of 2 & 3				1.5%	62.00	
Contractor's profit & overhead				20%	2116.23	
Total Composite rate					423.25	
					5066.51	5,067

Cu.m. c) 8" (200 mm) thick hollow block masonry

i) Cement sand mortar 1 : 3

1. Labour	1.25 times of item 9.1C1				2334.15	
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	466.83	
	Total Labour rate		2800.98	2,801
	2. Material			
	Concrete as per item 5-8(d)	0.51	Cu.m. @ 4379.69	2233.64
	Mortar as per Table-11(a)	0.07	Cu.m. @ 6099.30	426.95
				2660.59
	3. Scaffolding		1.5%	75.00
	Total of 2 & 3			2735.59
	Contractor's profit & overhead	20%	547.12	
	Total		3282.71	
	Total Composite rate		6083.69	6,084
	ii) Cement sand mortar 1 : 4			
	1. Labour			2334.15
	Contractor's profit & overhead	20%	466.83	
	Total Labour rate		2800.98	2,801
	2. Material			
	Concrete as per item 5-8(d)	0.51	Cu.m. @ 4379.69	2233.64
	Mortar as per Table-11(a)	0.07	Cu.m. @ 4839.30	338.75
				2572.39
	3. Scaffolding		1.5%	74.00
	Total of 2 & 3			2646.39
	Contractor's profit & overhead	20%	529.28	
	Total		3175.67	
	Total Composite rate		5976.65	5,977
	iii) Cement sand mortar 1 : 5			
	1. Labour			2334.15
	Contractor's profit & overhead	20%	466.83	
	Total Labour rate		2800.98	2,801
	2. Material			
	Concrete as per item 5-8(d)	0.51	Cu.m. @ 4379.69	2233.64
	Mortar as per Table-11(a)	0.07	Cu.m. @ 4104.30	287.30
				2520.94
	3. Scaffolding		1.5%	73.00
	Total of 2 & 3			2593.94
	Contractor's profit & overhead	20%	518.79	
	Total		3112.73	
	Total Composite rate		5913.71	5,914
	iv) Cement sand mortar 1 : 6			
	1. Labour			2334.15
	Contractor's profit & overhead	20%	466.83	
	Total Labour rate		2800.98	2,801
	2. Material			
	Concrete as per item 5-8(d)	0.51	Cu.m. @ 4379.69	2233.64
	Mortar as per Table-11(a)	0.07	Cu.m. @ 3579.30	250.55
				2484.19
	3. Scaffolding		1.5%	72.00
	Total of 2 & 3			2556.19
	Contractor's profit & overhead	20%	511.24	
	Total		3067.43	
	Total Composite rate		5868.41	5,868
Cu.m. d)	12" (300 mm) thick hollow block masonry			
	i) Cement sand mortar 1 : 3			
	1. Labour	1.25 times of item 9.1D1		1864.62
	Contractor's profit & overhead		20%	372.92
	Total Labour rate			2237.55
	2. Material			
				2,238

Unit	Description				Component Cost	Unit Rate	
					(Rs)	(Rs)	
	Concrete as per item 5-8(d)	0.42	Cu.m.	@	4379.69	1839.47	
	Mortar as per Table-11(a)	0.09	Cu.m.	@	6099.30	548.94	
						2388.41	
	3. Scaffolding				1.5%	64.00	
	Total of 2 & 3					2452.41	
	Contractor's profit & overhead				20%	490.48	
	Total					2942.89	
	Total Composite rate					5180.44	5,180
ii) Cement sand mortar 1 : 4							
	1. Labour					1864.62	
	Contractor's profit & overhead				20%	372.92	
	Total Labour rate					2237.55	2,238
	2. Material						
	Concrete as per item 5-8(d)	0.42	Cu.m.	@	4379.69	1839.47	
	Mortar as per Table-11(a)	0.09	Cu.m.	@	4839.30	435.54	
						2275.01	
	3. Scaffolding				1.5%	62.00	
	Total of 2 & 3					2337.01	
	Contractor's profit & overhead				20%	467.40	
	Total Composite rate					5041.96	5,042
iii) Cement sand mortar 1 : 5							
	1. Labour					1864.62	
	Contractor's profit & overhead				20%	372.92	
	Total Labour rate					2237.55	2,238
	2. Material						
	Concrete as per item 5-8(d)	0.42	Cu.m.	@	4379.69	1839.47	
	Mortar as per Table-11(a)	0.09	Cu.m.	@	4104.30	369.39	
						2208.86	
	3. Scaffolding				1.5%	61.00	
	Total of 2 & 3					2269.86	
	Contractor's profit & overhead				20%	453.97	
	Total					2723.83	
	Total Composite rate					4961.38	4,961
iv) Cement sand mortar 1 : 6							
	1. Labour					1864.62	
	Contractor's profit & overhead				20%	372.92	
	Total Labour rate					2237.55	2,238
	2. Material						
	Concrete as per item 5-8(d)	0.42	Cu.m.	@	4379.69	1839.47	
	Mortar as per Table-11(a)	0.09	Cu.m.	@	3579.30	322.14	
						2161.61	
	3. Scaffolding				1.5%	60.00	
	Total of 2 & 3					2221.61	
	Contractor's profit & overhead				20%	444.32	
	Total					2665.93	
	Total Composite rate					4903.48	4,904
Item No. 10.2							
Same as item 9-17 but in 1:2:4 concrete hollow block masonry.							
Cu.m.	a) 4" (100 mm) thick hollow block masonry						
	i) Cement sand mortar 1 : 2						
	1. Labour	1.25 times of item 9.1A				3305.43	
	Contractor's profit & overhead				20%	661.09	
	Total Labour rate					3966.52	3,967
	2. Material						
	Concrete as per item 5-8(c)	0.56	Cu.m.	@	4971.92	2784.28	
	Mortar as per Table-11(a)	0.07	Cu.m.	@	8442.75	590.99	
						3375.27	
	3. Scaffolding				1.5%	100.00	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total of 2 & 3		3475.27	
	Contractor's profit & overhead	20%	695.05	
	Total		4170.32	
	Total Composite rate		8136.84	8,137
ii) Cement sand mortar 1 : 3				
	1. Labour		3305.43	
	Contractor's profit & overhead	20%	661.09	
	Total Labour rate		3966.52	3,967
	2. Material			
	Concrete as per item 5-8(c)	0.56	Cu.m. @ 4971.92	2784.28
	Mortar as per Table-11(a)	0.07	Cu.m. @ 6099.30	426.95
				3211.23
	3. Scaffolding		1.5%	98.00
	Total of 2 & 3			3309.23
	Contractor's profit & overhead	20%	661.85	
	Total		3971.07	
	Total Composite rate		7937.59	7,938
iii) Cement sand mortar 1 : 4				
	1. Labour		3305.43	
	Contractor's profit & overhead	20%	661.09	
	Total Labour rate		3966.52	3,967
	2. Material			
	Concrete as per item 5-8(c)	0.56	Cu.m. @ 4971.92	2784.28
	Mortar as per Table-11(a)	0.07	Cu.m. @ 4839.30	338.75
				3123.03
	3. Scaffolding		1.5%	96.00
	Total of 2 & 3			3219.03
	Contractor's profit & overhead	20%	643.81	
	Total		3862.83	
	Total Composite rate		7829.35	7,829
iv) Cement sand mortar 1 : 5				
	1. Labour		3305.43	
	Contractor's profit & overhead	20%	661.09	
	Total Labour rate		3966.52	3,967
	2. Material			
	Concrete as per item 5-8(c)	0.56	Cu.m. @ 4971.92	2784.28
	Mortar as per Table-11(a)	0.07	Cu.m. @ 4104.30	287.30
				3071.58
	3. Scaffolding		1.5%	96.00
	Total of 2 & 3			3167.58
	Contractor's profit & overhead	20%	633.52	
	Total		3801.09	
	Total Composite rate		7767.61	7,768
v) Cement sand mortar 1 : 6				
	1. Labour		3305.43	
	Contractor's profit & overhead	20%	661.09	
	Total Labour rate		3966.52	3,967
	2. Material			
	Concrete as per item 5-8(c)	0.56	Cu.m. @ 4971.92	2784.28
	Mortar as per Table-11(a)	0.07	Cu.m. @ 3579.30	250.55
				3034.83
	3. Scaffolding		1.5%	95.00
	Total of 2 & 3			3129.83
	Contractor's profit & overhead	20%	625.97	
	Total		3755.79	
	Total Composite rate		7722.31	7,722

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Cu.m.	b) 6" (150 mm) thick hollow block masonry			
	i) Cement sand mortar 1 : 2			
	1. Labour 1.25 times of item 9.1b1			2105.86
	Contractor's profit & overhead	20%		421.17
	Total Labour rate			<u>2527.03</u> 2,527
	2. Material			
	Concrete as per item 5-8(c)	0.42	Cu.m. @	4971.92
	Mortar as per Table-11(a)	0.06	Cu.m. @	8442.75
				<u>2594.77</u>
	3. Scaffolding			1.5%
	Total of 2 & 3			<u>71.00</u>
	Contractor's profit & overhead	20%		2665.77
	Total			<u>533.15</u>
	Total Composite rate			<u>3198.93</u>
				<u>5725.96</u> 5,726
	ii) Cement sand mortar 1 : 3			
	1. Labour			2105.86
	Contractor's profit & overhead	20%		421.17
	Total Labour rate			<u>2527.03</u> 2,527
	2. Material			
	Concrete as per item 5-8(c)	0.42	Cu.m. @	4971.92
	Mortar as per Table-11(a)	0.06	Cu.m. @	6099.30
				<u>365.96</u>
	3. Scaffolding			1.5%
	Total of 2 & 3			<u>68.00</u>
	Contractor's profit & overhead	20%		2522.17
	Total			<u>504.43</u>
	Total Composite rate			<u>3026.60</u>
				<u>5553.63</u> 5,554
	iii) Cement sand mortar 1 : 4			
	1. Labour			2105.86
	Contractor's profit & overhead	20%		421.17
	Total Labour rate			<u>2527.03</u> 2,527
	2. Material			
	Concrete as per item 5-8(c)	0.42	Cu.m. @	4971.92
	Mortar as per Table-11(a)	0.06	Cu.m. @	4839.30
				<u>290.36</u>
	3. Scaffolding			1.5%
	Total of 2 & 3			<u>67.00</u>
	Contractor's profit & overhead	20%		2445.57
	Total			<u>489.11</u>
	Total Composite rate			<u>2934.68</u>
				<u>5461.71</u> 5,462
	iv) Cement sand mortar 1 : 5			
	1. Labour			2105.86
	Contractor's profit & overhead	20%		421.17
	Total Labour rate			<u>2527.03</u> 2,527
	2. Material			
	Concrete as per item 5-8(c)	0.42	Cu.m. @	4971.92
	Mortar as per Table-11(a)	0.06	Cu.m. @	4104.30
				<u>246.26</u>
	3. Scaffolding			1.5%
	Total of 2 & 3			<u>67.00</u>
	Contractor's profit & overhead	20%		2401.47
	Total			<u>480.29</u>
	Total Composite rate			<u>2881.76</u>
				<u>5408.79</u> 5,409
	v) Cement sand mortar 1 : 6			
	1. Labour			2105.86
	Contractor's profit & overhead	20%		421.17
	Total Labour rate			<u>2527.03</u> 2,527
	2. Material			

Unit	Description			Component Cost	Unit Rate	
				(Rs)	(Rs)	
	Concrete as per item 5-8(c)	0.42	Cu.m.	@	4971.92	2088.21
	Mortar as per Table-11(a)	0.06	Cu.m.	@	3579.30	214.76
						2302.97
	3. Scaffolding				1.5%	66.00
	Total of 1, 2 & 3					2368.97
	Contractor's profit & overhead				20%	473.79
	Total					2842.76
	Total Composite rate					5369.79
						5,370

Cu.m. c) 8" (200 mm) thick hollow block masonry

i) Cement sand mortar 1 : 2

1. Labour	1.25 times of item 9.1C1					2334.15
	Contractor's profit & overhead				20%	466.83
	Total Labour rate					2800.98
						2,801
2. Material						
Concrete as per item 5-8(c)	0.51	Cu.m.	@	4971.92		2535.68
Mortar as per Table-11(a)	0.07	Cu.m.	@	8442.75		590.99
						3126.67
3. Scaffolding					1.5%	82.00
Total of 2 & 3						3208.67
Contractor's profit & overhead					20%	641.73
Total						3850.41
Total Composite rate						6651.38
						6,651

ii) Cement sand mortar 1 : 3

1. Labour						2334.15
	Contractor's profit & overhead				20%	466.83
	Total Labour rate					2800.98
						2,801
2. Material						
Concrete as per item 5-8(c)	0.51	Cu.m.	@	4971.92		2535.68
Mortar as per Table-11(a)	0.07	Cu.m.	@	6099.30		426.95
						2962.63
3. Scaffolding					1.5%	79.00
Total of 2 & 3						3041.63
Contractor's profit & overhead					20%	608.33
Total						3649.96
Total Composite rate						6450.93
						6,451

iii) Cement sand mortar 1 : 4

1. Labour						2334.15
	Contractor's profit & overhead				20%	466.83
	Total Labour rate					2800.98
						2,801
2. Material						
Concrete as per item 5-8(c)	0.51	Cu.m.	@	4971.92		2535.68
Mortar as per Table-11(a)	0.07	Cu.m.	@	4839.30		338.75
						2874.43
3. Scaffolding					1.5%	78.00
Total of 2 & 3						2952.43
Contractor's profit & overhead					20%	590.49
Total						3542.92
Total Composite rate						6343.89
						6,344

iv) Cement sand mortar 1 : 5

1. Labour						2334.15
	Contractor's profit & overhead				20%	466.83
	Total Labour rate					2800.98
						2,801
2. Material						
Concrete as per item 5-8(c)	0.51	Cu.m.	@	4971.92		2535.68
Mortar as per Table-11(a)	0.07	Cu.m.	@	4104.30		287.30
						2822.98
3. Scaffolding					1.5%	77.00
Total of 2 & 3						2899.98

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	580.00	
	Total		3479.98	
	Total Composite rate		6280.95	6,281
v) Cement sand mortar 1 : 6				
	1. Labour		2334.15	
	Contractor's profit & overhead	20%	466.83	
	Total Labour rate		2800.98	2,801
	2. Material			
	Concrete as per item 5-8(c)	0.51	Cu.m. @ 4971.92	2535.68
	Mortar as per Table-11(a)	0.07	Cu.m. @ 3579.30	250.55
				2786.23
	3. Scaffolding		1.5%	77.00
	Total of 1, 2 & 3			2863.23
	Contractor's profit & overhead	20%	572.65	
	Total		3435.88	
	Total Composite rate		6236.85	6,237
Cu.m. d) 12" (300 mm) thick hollow block masonry				
i) Cement sand mortar 1 : 2				
	1. Labour	1.25 times of item 9.1D1		1864.62
	Contractor's profit & overhead		20%	372.92
	Total Labour rate			2237.55
	2. Material			
	Concrete as per item 5-8(c)	0.42	Cu.m. @ 4971.92	2088.21
	Mortar as per Table-11(a)	0.09	Cu.m. @ 8442.75	759.85
				2848.06
	3. Scaffolding		1.5%	71.00
	Total of 2 & 3			2919.06
	Contractor's profit & overhead	20%	583.81	
	Total		3502.87	
	Total Composite rate		5740.42	5,740
ii) Cement sand mortar 1 : 3				
	1. Labour			1864.62
	Contractor's profit & overhead		20%	372.92
	Total Labour rate			2237.55
	2. Material			
	Concrete as per item 5-8(c)	0.42	Cu.m. @ 4971.92	2088.21
	Mortar as per Table-11(a)	0.09	Cu.m. @ 6099.30	548.94
				2637.15
	3. Scaffolding		1.5%	68.00
	Total of 2 & 3			2705.15
	Contractor's profit & overhead	20%	541.03	
	Total		3246.17	
	Total Composite rate		5483.72	5,484
iii) Cement sand mortar 1 : 4				
	1. Labour			1864.62
	Contractor's profit & overhead		20%	372.92
	Total Labour rate			2237.55
	2. Material			
	Concrete as per item 5-8(c)	0.42	Cu.m. @ 4971.92	2088.21
	Mortar as per Table-11(a)	0.09	Cu.m. @ 4839.30	435.54
				2523.75
	3. Scaffolding		1.5%	66.00
	Total of 2 & 3			2589.75
	Contractor's profit & overhead	20%	517.95	
	Total		3107.69	
	Total Composite rate		5345.24	5,345

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
iv)	Cement sand mortar 1 : 5				
	1. Labour		1864.62		
	Contractor's profit & overhead	20%	372.92		
	Total Labour rate		2237.55		2,238
	2. Material				
	Concrete as per item 5-8(c)	0.42	Cu.m.	@	4971.92
	Mortar as per Table-11(a)	0.09	Cu.m.	@	4104.30
					2088.21
					369.39
					2457.60
	3. Scaffolding			1.5%	65.00
	Total of 2 & 3				2522.60
	Contractor's profit & overhead	20%	504.52		
	Total		3027.11		
	Total Composite rate		5264.66		5,265
v)	Cement sand mortar 1 : 6				
	1. Labour		1864.62		
	Contractor's profit & overhead	20%	372.92		
	Total Labour rate		2237.55		2,238
	2. Material				
	Concrete as per item 5-8(c)	0.42	Cu.m.	@	4971.92
	Mortar as per Table-11(a)	0.09	Cu.m.	@	3579.30
					2088.21
					322.14
					2410.35
	3. Scaffolding			1.5%	64.00
	Total of 2 & 3				2474.35
	Contractor's profit & overhead	20%	494.87		
	Total		2969.21		
	Total Composite rate		5206.76		5,207
Item No. 10-3					
Providing and laying 1:3:6 cement concrete hollow block masonry using Coarse Sand and Approved crushed aggregate 1/2" (12.7mm) thick and down gauge including scaffolding, raking out joints and curing in ground floor superstructure.					
a)	4" (100 mm) thick hollow block masonry				
Cu.m.	i) Cement sand mortar 1 : 3				
	Cost of material to be taken same as under item 9-17 for all such heads under this item.				
	1. Labour	1.25 times of item 9.6a1			3676.52
	Contractor's profit & overhead		20%		735.30
	Total Labour rate				4411.83
					4,412
	2. Material				2879.58
	3. Scaffolding			1%	66.00
	Total of 2 & 3				2945.58
	Contractor's profit & overhead		20%		589.12
	Total				3534.69
	Total Composite rate				7946.52
					7,947
Cu.m.	ii) Cement sand mortar 1 : 4				
	1. Labour				3676.52
	Contractor's profit & overhead		20%		735.30
	Total Labour rate				4411.83
					4,412
	2. Material				2791.38
	3. Scaffolding			1%	65.00
	Total of 2 & 3				2856.38
	Contractor's profit & overhead		20%		571.28
	Total				3427.65
	Total Composite rate				7839.48
					7,840
Cu.m.	iii) Cement sand mortar 1 : 5				
	1. Labour				3676.52
	Contractor's profit & overhead		20%		735.30
	Total Labour rate				4411.83
					4,412
	2. Material				2739.93

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	3. Scaffolding	1%	64.00	
	Total of 2 & 3		2803.93	
	Contractor's profit & overhead	20%	560.79	
	Total		3364.71	
	Total Composite rate		7776.54	7,777
Cu.m.	iv) Cement sand mortar 1 : 6			
	1. Labour		3676.52	
	Contractor's profit & overhead	20%	735.30	
	Total Labour rate		4411.83	4,412
	2. Material		2703.18	
	3. Scaffolding	1%	64.00	
	Total of 2 & 3		2767.18	
	Contractor's profit & overhead	20%	553.44	
	Total		3320.61	
	Total Composite rate		7732.44	7,732
	b) 6" (150 mm) thick hollow block masonry			
Cu.m.	i) Cement sand mortar 1 : 3			
	1. Labour 1.25 times of item 9.6b1		2476.95	
	Contractor's profit & overhead	20%	495.39	
	Total Labour rate		2972.34	2,972
	2. Material		2205.43	
	3. Scaffolding	1%	47.00	
	Total of 2 & 3		2252.43	
	Contractor's profit & overhead	20%	450.49	
	Total		2702.91	
	Total Composite rate		5675.26	5,675
Cu.m.	ii) Cement sand mortar 1 : 4			
	1. Labour		2476.95	
	Contractor's profit & overhead	20%	495.39	
	Total Labour rate		2972.34	2,972
	2. Material		2129.83	
	3. Scaffolding	1%	46.00	
	Total of 2 & 3		2175.83	
	Contractor's profit & overhead	20%	435.17	
	Total		2610.99	
	Total Composite rate		5583.34	5,583
Cu.m.	iii) Cement sand mortar 1 : 5			
	1. Labour		2476.95	
	Contractor's profit & overhead	20%	495.39	
	Total Labour rate		2972.34	2,972
	2. Material		2085.73	
	3. Scaffolding	1%	46.00	
	Total of 2 & 3		2131.73	
	Contractor's profit & overhead	20%	426.35	
	Total		2558.07	
	Total Composite rate		5530.42	5,530
Cu.m.	iv) Cement sand mortar 1 : 6			
	1. Labour		2476.95	
	Contractor's profit & overhead	20%	495.39	
	Total Labour rate		2972.34	2,972
	2. Material		2054.23	
	3. Scaffolding	1%	45.00	
	Total of 2 & 3		2099.23	
	Contractor's profit & overhead	20%	419.85	
	Total		2519.07	
	Total Composite rate		5491.42	5,491

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
c) 8" (200 mm) thick hollow block masonry			
Cu.m.	i) Cement sand mortar 1 : 3		
	1. Labour 1.25 times of item 9.6c1	2679.93	
	Contractor's profit & overhead	535.99	
	Total Labour rate	3215.91	3,216
	2. Material	2660.59	
	3. Scaffolding	53.00	
	Total of 2 & 3	2713.59	
	Contractor's profit & overhead	542.72	
	Total	3256.31	
	Total Composite rate	6472.23	6,472
Cu.m.	ii) Cement sand mortar 1 : 4		
	1. Labour	2679.93	
	Contractor's profit & overhead	535.99	
	Total Labour rate	3215.91	3,216
	2. Material	2572.39	
	3. Scaffolding	53.00	
	Total of 2 & 3	2625.39	
	Contractor's profit & overhead	525.08	
	Total	3150.47	
	Total Composite rate	6366.39	6,366
Cu.m.	iii) Cement sand mortar 1 : 5		
	1. Labour	2679.93	
	Contractor's profit & overhead	535.99	
	Total Labour rate	3215.91	3,216
	2. Material	2520.94	
	3. Scaffolding	52.00	
	Total of 2 & 3	2572.94	
	Contractor's profit & overhead	514.59	
	Total	3087.53	
	Total Composite rate	6303.45	6,303
Cu.m.	iv) Cement sand mortar 1 : 6		
	1. Labour	2679.93	
	Contractor's profit & overhead	535.99	
	Total Labour rate	3215.91	3,216
	2. Material	2484.19	
	3. Scaffolding	52.00	
	Total of 2 & 3	2536.19	
	Contractor's profit & overhead	507.24	
	Total	3043.43	
	Total Composite rate	6259.35	6,259
d) 12" (300 mm) thick hollow block masonry			
Cu.m.	i) Cement sand mortar 1 : 3		
	1. Labour 1.25 times of item 9.6d1	1864.62	
	Contractor's profit & overhead	372.92	
	Total Labour rate	2237.55	2,238
	2. Material	2388.41	
	3. Scaffolding	43.00	
	Total of 2 & 3	2431.41	
	Contractor's profit & overhead	486.28	
	Total	2917.69	
	Total Composite rate	5155.24	5,155
Cu.m.	ii) Cement sand mortar 1 : 4		
	1. Labour	1864.62	
	Contractor's profit & overhead	372.92	
	Total Labour rate	2237.55	2,238

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	2. Material	2275.01	
	3. Scaffolding	41.00	
	Total of 2 & 3	2316.01	
	Contractor's profit & overhead	463.20	
	Total	2779.21	
	Total Composite rate	5016.76	5,017
Cu.m.	iii) Cement sand mortar 1 : 5		
	1. Labour	1864.62	
	Contractor's profit & overhead	372.92	
	Total Labour rate	2237.55	2,238
	2. Material	2208.86	
	3. Scaffolding	41.00	
	Total of 2 & 3	2249.86	
	Contractor's profit & overhead	449.97	
	Total	2699.83	
	Total Composite rate	4937.38	4,937
Cu.m.	iv) Cement sand mortar 1 : 6		
	1. Labour	1864.62	
	Contractor's profit & overhead	372.92	
	Total Labour rate	2237.55	2,238
	2. Material	2161.61	
	3. Scaffolding	40.00	
	Total of 2 & 3	2201.61	
	Contractor's profit & overhead	440.32	
	Total	2641.93	
	Total Composite rate	4879.48	4,880
	Item No. 10-4		
	Same as item 9-19 but in 1:2:4 cement concrete hollow block masonry.		
Cu.m.	a) 4" (100 mm) thick hollow block masonry		
	i) Cement sand mortar 1 : 2		
	Cost of material to be taken same as under item 9-18 for all such heads under this item.		
	1. Labour 1.25 times of item 9.6a1	3676.52	
	Contractor's profit & overhead	735.30	
	Total Labour rate	4411.83	4,412
	2. Material	3375.27	
	3. Scaffolding	71.00	
	Total of 2 & 3	3446.27	
	Contractor's profit & overhead	689.25	
	Total	4135.52	
	Total Composite rate	8547.35	8,547
Cu.m.	ii) Cement sand mortar 1 : 3		
	1. Labour	3676.52	
	Contractor's profit & overhead	735.30	
	Total Labour rate	4411.83	4,412
	2. Material	3211.23	
	3. Scaffolding	69.00	
	Total of 2 & 3	3280.23	
	Contractor's profit & overhead	656.05	
	Total	3936.27	
	Total Composite rate	8348.10	8,348
Cu.m.	iii) Cement sand mortar 1 : 4		
	1. Labour	3676.52	
	Contractor's profit & overhead	735.30	
	Total Labour rate	4411.83	4,412
	2. Material	3123.03	

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	3. Scaffolding	1%	68.00	
	Total of 2 & 3		3191.03	
	Contractor's profit & overhead	20%	638.21	
	Total Composite rate		8241.06	8,241
Cu.m.	iv) Cement sand mortar 1 : 5			
	1. Labour		3676.52	
	Contractor's profit & overhead	20%	735.30	
	Total Labour rate		4411.83	4,412
	2. Material		3071.58	
	3. Scaffolding	1%	67.00	
	Total of 2 & 3		3138.58	
	Contractor's profit & overhead	20%	627.72	
	Total Composite rate		8178.12	8,178
Cu.m.	v) Cement sand mortar 1 : 6			
	1. Labour		3676.52	
	Contractor's profit & overhead	20%	735.30	
	Total Labour rate		4411.83	4,412
	2. Material		3034.83	
	3. Scaffolding	1%	67.00	
	Total of 2 & 3		3101.83	
	Contractor's profit & overhead	20%	620.37	
	Total Composite rate		8134.02	8,134
	b) 6" (150 mm) thick hollow block masonry			
Cu.m.	i) Cement sand mortar 1 : 2			
	1. Labour 1.25 times of item 9.6b1		2476.95	
	Contractor's profit & overhead	20%	495.39	
	Total Labour rate		2972.34	2,972
	2. Material		2594.77	
	3. Scaffolding	1%	51.00	
	Total of 2 & 3		2645.77	
	Contractor's profit & overhead	20%	529.15	
	Total Composite rate		6147.27	6,147
Cu.m.	ii) Cement sand mortar 1 : 3			
	1. Labour		2476.95	
	Contractor's profit & overhead	20%	495.39	
	Total Labour rate		2972.34	2,972
	2. Material		2454.17	
	3. Scaffolding	1%	49.00	
	Total of 2 & 3		2503.17	
	Contractor's profit & overhead	20%	500.63	
	Total		3003.80	
	Total Composite rate		5976.14	5,976
Cu.m.	iii) Cement sand mortar 1 : 4			
	1. Labour		2476.95	
	Contractor's profit & overhead	20%	495.39	
	Total Labour rate		2972.34	2,972
	2. Material		2378.57	
	3. Scaffolding	1%	49.00	
	Total of 2 & 3		2427.57	
	Contractor's profit & overhead	20%	485.51	
	Total		2913.08	
	Total Composite rate		5885.42	5,885
Cu.m.	iv) Cement sand mortar 1 : 5			
	1. Labour		2476.95	
	Contractor's profit & overhead	20%	495.39	
	Total Labour rate		2972.34	2,972

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	2. Material	2334.47	
	3. Scaffolding	48.00	
	Total of 2 & 3	2382.47	
	Contractor's profit & overhead	476.49	
	Total	2858.96	
	Total Composite rate	5831.30	5,831
Cu.m.	v) Cement sand mortar 1 : 6		
	1. Labour	2476.95	
	Contractor's profit & overhead	495.39	
	Total Labour rate	2972.34	2,972
	2. Material	2302.97	
	3. Scaffolding	48.00	
	Total of 2 & 3	2350.97	
	Contractor's profit & overhead	470.19	
	Total	2821.16	
	Total Composite rate	5793.50	5,794
	c) 8" (200 mm) thick hollow block masonry		
Cu.m.	i) Cement sand mortar 1 : 2		
	1. Labour 1.25 times of item 9.6d1	1864.62	
	Contractor's profit & overhead	372.92	
	Total Labour rate	2237.55	2,238
	2. Material	3126.67	
	3. Scaffolding	50.00	
	Total of 2 & 3	3176.67	
	Contractor's profit & overhead	635.33	
	Total	3812.01	
	Total Composite rate	6049.56	6,050
Cu.m.	ii) Cement sand mortar 1 : 3		
	1. Labour	1864.62	
	Contractor's profit & overhead	372.92	
	Total Labour rate	2237.55	2,238
	2. Material	2962.63	
	3. Scaffolding	48.00	
	Total of 2 & 3	3010.63	
	Contractor's profit & overhead	602.13	
	Total	3612.76	
	Total Composite rate	5850.31	5,850
Cu.m.	iii) Cement sand mortar 1 : 4		
	1. Labour	1864.62	
	Contractor's profit & overhead	372.92	
	Total Labour rate	2237.55	2,238
	2. Material	2874.43	
	3. Scaffolding	47.00	
	Total of 2 & 3	2921.43	
	Contractor's profit & overhead	584.29	
	Total	3505.72	
	Total Composite rate	5743.27	5,743
Cu.m.	iv) Cement sand mortar 1 : 5		
	1. Labour	1864.62	
	Contractor's profit & overhead	372.92	
	Total Labour rate	2237.55	2,238
	2. Material	2822.98	
	3. Scaffolding	47.00	
	Total of 2 & 3	2869.98	
	Contractor's profit & overhead	574.00	
	Total Composite rate	5681.53	5,682

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Cu.m.	v) Cement sand mortar 1 : 6		
	1. Labour	1864.62	
	Contractor's profit & overhead	20% 372.92	
	Total Labour rate	<u>2237.55</u>	2,238
	2. Material	2786.23	
	3. Scaffolding	1% 47.00	
	Total of 2 & 3	<u>2833.23</u>	
	Contractor's profit & overhead	20% 566.65	
	Total Composite rate	<u>5637.43</u>	5,637
	Cu.m.	d) 12" (300 mm) thick hollow block masonry	
i) Cement sand mortar 1 : 2			
1. Labour 1.25 times of item 9.6d1		1864.62	
Contractor's profit & overhead		20% 372.92	
Total Labour rate		<u>2237.55</u>	2,238
2. Material		2848.06	
3. Scaffolding		1% 47.00	
Total of 2 & 3		<u>2895.06</u>	
Contractor's profit & overhead		20% 579.01	
Total Composite rate		<u>5711.62</u>	5,712
Cu.m.	ii) Cement sand mortar 1 : 3		
	1. Labour	1864.62	
	Contractor's profit & overhead	20% 372.92	
	Total Labour rate	<u>2237.55</u>	2,238
	2. Material	2637.15	
	3. Scaffolding	1% 45.00	
	Total of 2 & 3	<u>2682.15</u>	
	Contractor's profit & overhead	20% 536.43	
	Total Composite rate	<u>5456.12</u>	5,456
	Cu.m.	iii) Cement sand mortar 1 : 4	
1. Labour		1864.62	
Contractor's profit & overhead		20% 372.92	
Total Labour rate		<u>2237.55</u>	2,238
2. Material		2523.75	
3. Scaffolding		1% 44.00	
Total of 2 & 3		<u>2567.75</u>	
Contractor's profit & overhead		20% 513.55	
Total Composite rate		<u>5318.84</u>	5,319
Cu.m.		iv) Cement sand mortar 1 : 5	
	1. Labour	1864.62	
	Contractor's profit & overhead	20% 372.92	
	Total Labour rate	<u>2237.55</u>	2,238
	2. Material	2457.60	
	3. Scaffolding	1% 43.00	
	Total of 2 & 3	<u>2500.60</u>	
	Contractor's profit & overhead	20% 500.12	
	Total Composite rate	<u>5238.26</u>	5,238
	Cu.m.	v) Cement sand mortar 1 : 6	
1. Labour		1864.62	
Contractor's profit & overhead		20% 372.92	
Total Labour rate		<u>2237.55</u>	2,238
2. Material		2410.35	
3. Scaffolding		1% 43.00	
Total of 2 & 3		<u>2453.35</u>	
Contractor's profit & overhead		20% 490.67	
Total		<u>2944.01</u>	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Composite rate	5181.56	5,182

Item No. 10-5-1
Extra for hollow block masonry in first floor superstructure.

Cu.m.	Labour						
	Mason	1.75	Hrs	@	125.00		218.75
	Labourer	3.00	Hrs	@	87.50		262.50
	Bahishti	0.25	Hrs	@	87.50		21.88
	Mistri	0.25	Hrs	@	110.00		27.50
	Sundries				5%		26.55
							557.18
	Contractor's profit & overhead				20%		111.44
	Total Labour rate						668.61
							669

Item No. 10-6-1
Extra for hollow block masonry in every additional floor above first floor.

Cu.m.	Labour						
	Mason	1.75	Hrs	@	125.00		218.75
	Labourer	1.75	Hrs	@	87.50		153.13
	Bahishti	0.25	Hrs	@	87.50		21.88
	Mistri	0.25	Hrs	@	110.00		27.50
	Sundries				5%		21.05
							442.30
	Contractor's profit & overhead				20%		88.46
	Total Labour rate						530.76
							531

Item No. 10-7-1
Extra for cement concrete hollow block masonry of any description in any floor or other than building for every 5 ft (1.5m) height or part thereof beyond 15 ft (4.5m)

Cu.m.	Labour						68.46
	Contractor's profit & overhead				20%		13.69
	Total Labour rate						82.16
							82
	Composite						80.44
	Contractor's profit & overhead				20%		16.09
	Total Composite rate						96.53
							97

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)

Item No. 11-1

Providing and laying sundried clay bricks set in mud mortar including scaffolding in foundation and substructure

Cu.m. a) Upto 4.5" (115 mm) nominal thick brick work

1. Labour

Mason	8.00	Hrs	@	125.00	1,000.00
Labourer	12.00	Hrs	@	87.50	1,050.00
Contractor's profit & overhead				20%	410.00
Total Labour rate					2,460.00

2,460.00

2. Material

Bricks	523	No.	@	6.50	3,399.50
Mortar	0.22	Cu.m.	@	91.81	19.92
Water charges				1.5%	51.29
					3,470.71
Contractor's profit & overhead				20%	694.14
Total Composite rate					6,624.86

6,624.86**Cu.m. b) Above 4.5" (115mm) nominal thick brickwork**

1. Labour

Mason	6.00	Hrs	@	125.00	750.00
Labourer	9.00	Hrs	@	87.50	787.50
Contractor's profit & overhead				20%	307.50
Total Labour rate					1,845.00

1,845.00

2. Material

Bricks	486	No.	@	6.00	2,916.00
Mortar	0.22	Cu.m.	@	91.81	19.92
Water charges				1.5%	44.04
					2,979.96
Contractor's profit & overhead				20%	595.99
Total Composite rate					5,420.95

5,420.95**Item No. 11-2**

Providing and laying first class solid burnt brick masonry (Brick Strength:1800psi-2000psi) set in mud mortar including and raking out joints in foundation and substructure i/c cost of testing

Cu.m. a) Upto 4.5" (115 mm) nominal thick brick work

1. Labour

Mason	6.00	Hrs	@	125.00	750.00
Labourer	8.00	Hrs	@	87.50	700.00
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.35	Hrs	@	110.00	38.50
					1,619.75
Contractor's profit & overhead				20%	323.95
Total Labour rate					1,943.70

1,943.70

2. Material

Bricks	523	No.	@	10.00	5,230.00
Mortar	0.22	Cu.m.	@	91.81	19.92
Water charges				1.5%	78.75
					5,328.67
Contractor's profit & overhead				20%	1,065.73
Total Composite rate					8,338.10

8,338.10

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)

Cu.m. b) **Above 4.5" (115mm) nominal thick brickwork**

1. Labour						
Mason	4.00	Hrs	@	125.00	500.00	
Labourer	6.00	Hrs	@	87.50	525.00	
Bahishti	1.50	Hrs	@	87.50	131.25	
Mistri	0.35	Hrs	@	110.00	38.50	
					1,194.75	
Contractor's profit & overhead				20%	238.95	
Total Labour rate					1,433.70	1,433.70
2. Material						
Bricks	486	No.	@	10.00	4,860.00	
Mortar	0.22	Cu.m.	@	91.81	19.92	
Water charges				1.5%	73.20	
					4,953.12	
Contractor's profit & overhead				20%	990.62	
Total Composite rate					7,377.44	7,377.45

Item No. 11-3

Providing and laying first class solid burnt brick masonry (Brick Strength:1800psi-2000psi) including scaffolding, raking out joints and curing in foundation and substructure/Basement i/c cost of testing

Cu.m. a) **Upto 4.5" (115 mm) nominal thick brick work**i) **Cement Sand 1 : 2**

1. Labour	Same as in item no.11-2(a)				1,943.70	1,943.70
2. Material						
Bricks	523	No.	@	10.00	5,230.00	
Mortar	0.15	Cu.m.	@	8442.75	1,266.41	
Water charges				1.5%	97.45	
					6,593.86	
Contractor's profit & overhead				20%	1,318.77	
Total Composite rate					9,856.33	9,856.35

ii) **Cement sand 1 : 3**

1. Labour	Same as in item no.11-2(a)				1,943.70	1,943.70
2. Material						
Bricks	523	No.	@	10.00	5,230.00	
Mortar	0.15	Cu.m.	@	6099.30	914.90	
Water charges				1.5%	92.17	
					6,237.07	
Contractor's profit & overhead				20%	1,247.41	
Total Composite rate					9,428.18	9,428.20

iii) **Cement sand 1 : 4**

1. Labour	Same as in item no.11-2(a)				1,943.70	1,943.70
2. Material						
Bricks	523	No.	@	10.00	5,230.00	
Mortar	0.15	Cu.m.	@	4839.30	725.90	
Water charges				1.5%	89.34	
					6,045.23	
Contractor's profit & overhead				20%	1,209.05	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		9,197.98		9,198.00
iv)	Cement sand 1 : 5				
	1. Labour	Same as in item no.11-2(a)	1,943.70		1,943.70
	2. Material				
	Bricks	523 No.	@ 10.00	5,230.00	
	Mortar	0.15 Cu.m.	@ 4104.30	615.65	
	Water charges		1.5%	87.68	
				<u>5,933.33</u>	
	Contractor's profit & overhead		20%	1,186.67	
	Total Composite rate		9,063.70		9,063.70
v)	Cement sand 1 : 6				
	1. Labour	Same as in item no.11-2(a)	1,943.70		1,943.70
	2. Material				
	Bricks	523 No.	@ 10.00	5,230.00	
	Mortar	0.15 Cu.m.	@ 3579.30	536.90	
	Water charges		1.5%	86.50	
				<u>5,853.40</u>	
	Contractor's profit & overhead		20%	1,170.68	
	Total Composite rate		8,967.78		8,967.80
vi)	Cement sand 1 : 7				
	1. Labour	Same as in item no.11-2(a)	1,943.70		1,943.70
	2. Material				
	Bricks	523 No.	@ 10.00	5,230.00	
	Mortar	0.15 Cu.m.	@ 3264.30	489.65	
	Water charges		1.5%	85.79	
				<u>5,805.44</u>	
	Contractor's profit & overhead		20%	1,161.09	
	Total Composite rate		8,910.23		8,910.25
vii)	Cement sand 1 : 8				
	1. Labour	Same as in item no.11-2(a)	1,943.70		1,943.70
	2. Material				
	Bricks	523 No.	@ 10.00	5,230.00	
	Mortar	0.15 Cu.m.	@ 2949.30	442.40	
	Water charges		1.5%	85.09	
				<u>5,757.48</u>	
	Contractor's profit & overhead		20%	1,151.50	
	Total Composite rate		8,852.68		8,852.70
Cu.m.	b) Above 4.5" thick brickwork upto any thickness				
i)	Cement sand 1 : 2				
	1. Labour	Same as in item no.11-2(b)	1,433.70		1,433.70
	2. Material				
	Bricks	486 No.	@ 10.00	4,860.00	
	Mortar	0.22 Cu.m.	@ 8442.75	1,832.08	

Unit	Description	Component Cost		Unit	Rate
		(Rs)		(Rs)	
	Water charges	1.5%		100.38	
				6,792.46	
	Contractor's profit & overhead	20%		1,358.49	
	Total Composite rate			9,584.65	9,584.65
ii) Cement sand 1 : 3					
1. Labour	Same as in item no.11-2(b)			1,433.70	1,433.70
2. Material					
Bricks	486	No.	@	10.00	4,860.00
Mortar	0.22	Cu.m.	@	6099.30	1,341.85
Water charges				1.5%	93.03
					6,294.87
	Contractor's profit & overhead	20%		1,258.97	
	Total Composite rate			8,987.55	8,987.55
iii) Cement sand 1 : 4					
1. Labour	Same as in item no.11-2(b)			1,433.70	1,433.70
2. Material					
Bricks	486	No.	@	10.00	4,860.00
Mortar	0.22	Cu.m.	@	4839.30	1,064.65
Water charges				1.5%	88.87
					6,013.52
	Contractor's profit & overhead	20%		1,202.70	
	Total Composite rate			8,649.92	8,649.90
iv) Cement sand 1 : 5					
1. Labour	Same as in item no.11-2(b)			1,433.70	1,433.70
2. Material					
Bricks	486	No.	@	10.00	4,860.00
Mortar	0.22	Cu.m.	@	4104.30	902.95
Water charges				1.5%	86.44
					5,849.39
	Contractor's profit & overhead	20%		1,169.88	
	Total Composite rate			8,452.97	8,452.95
v) Cement sand 1 : 6					
1. Labour	Same as in item no.11-2(b)			1,433.70	1,433.70
2. Material					
Bricks	486	No.	@	10.00	4,860.00
Mortar	0.22	Cu.m.	@	3579.30	787.45
Water charges				1.5%	84.71
					5,732.16
	Contractor's profit & overhead	20%		1,146.43	
	Total Composite rate			8,312.29	8,312.30
vi) Cement sand 1 : 7					
1. Labour	Same as in item no.11-2(b)			1,433.70	1,433.70

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
2. Material					
Bricks	486 No. @	10.00	4,860.00		
Mortar	0.22 Cu.m. @	3264.30	718.15		
Water charges		1.5%	83.67		
			5,661.82		
Contractor's profit & overhead		20%	1,132.36		
Total Composite rate			8,227.88		8,227.90
vii) Cement sand 1 : 8					
1. Labour	Same as in item no.11-2(b)		1,433.70		1,433.70
2. Material					
Bricks	486 No. @	10.00	4,860.00		
Mortar	0.22 Cu.m. @	2949.30	648.85		
Water charges		1.5%	82.63		
			5,591.48		
Contractor's profit & overhead		20%	1,118.30		
Total Composite rate			8,143.47		8,143.45

Item No. 11-4

Extra for providing and laying first class burnt brick masonry (Brick Strength:1800psi-2000psi) for arches of any kind of wall including scaffolding, formwork and its removal, raking out joints and curing including basement and i/c cost of testing.

Cu.m. a) **Upto 4.5" (115 mm) nominal thick brick work**

1. Labour

For arch masonry

Mason	17.00	Hrs	@	125.00	2,125.00
Labourer	17.00	Hrs	@	87.50	1,487.50
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00
					3,798.75

Less labour used as per item 11-2(a)

1,619.75

2,179.00

Contractor's profit & overhead

20%

435.80

Total Labour rate

2,614.80

2,614.80

2. Material

Extra wastage and breakage of bricks @ 5% =

26.15 Nos. @ 10.00 = 261.50

Formwork

Considering a semi circular arch 9" nominal thick over 4.5" thick wall and 4' clear span

Arch masonry 1/2x 22/7x (4+ 0.75)x 0.37x 0.75 2.07 Cu.ft.

Second class burnt brick masonry required for formwork with 50% honey combing = 1/2x1/2x22/7x16x1/4x0.375 1.18 Cu.ft.

Proping 2 nos. 2 x 0.75 x 0.75 x 6 6.75 Cu.ft.

7.93 Cu.ft. = 0.22 Cu.m.

Taking 3/8" thick mortar joint

Bricks 486 x 0.22 109.13 Nos.

Mud Mortar 0.173 x 0.22 0.04 Cu.m.

1" thick partial wood 6.0' x 0.37 x 1/12 0.19 Cu.ft.

Material required for one cu.m. Form Work

Bricks 117 x 35.31/2.07 1996.04 Nos.

Mortar 0.039 x 35.31/2.07 0.66 Cu.m.

Partial wood 0.185 x 35.31/2.07 3.15 Cu.ft.

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Wastage @ 15%	0.47	Cu.ft.		
		3.63	Cu.ft.		
	Taking the use of bricks as				
	The cost per use =	1/50 x 1877			
	Bricks	39.92	Nos.		
		39.92	No.	@	10.00
					399.21
	Mud Mortar	0.66	Cu.m.	@	91.81
					60.79
	Wood - Partal	3.63	Cu.ft.	@	1200.00
					4,352.08
	Sawing charges	3.63	Cu.ft.	@	87.50
					317.34
	Nails etc.				217.60
					5,347.03
	Labour for making formwork				
	Carpenter shuttering	4.00	Hrs	@	125.00
					500.00
	Helper	4.00	Hrs	@	75.00
					300.00
					800.00
	Cost for 25 uses				5,687.03
	Rate per use	/ 25			227.48
	Repair charges @	10%			22.75
	Oiling and greasing	5%			11.37
					261.60
	Labour for erection of formwork				
	Mason	4.50	Hrs	@	125.00
					562.50
	Labourer	6.20	Hrs	@	87.50
					542.50
	Mistri	0.20	Hrs	@	110.00
					22.00
					1,127.00
	Total formwork (A+B+C+D)				1,848.61
	Contractor's profit &			20%	369.72
	Total Composite rate				4,833.13
					4,833.15
Cu.m.	b) Above 4.5" thick brickwork upto any thickness				
	1. Labour				
	For arch masonry				
	Mason	11.30	Hrs	@	125.00
					1,412.50
	Labourer	14.50	Hrs	@	87.50
					1,268.75
	Bahishti	1.50	Hrs	@	87.50
					131.25
	Mistri	0.50	Hrs	@	110.00
					55.00
					2,867.50
	Less labour used as per item 11-2(b)				1,194.75
					1,672.75
	Contractor's profit & overhead			20%	334.55
	Total Labour rate				2,007.30
					2,007.30
	2. Material				
	Same as in item no. 11-4(a)				261.50
	Formwork				
	Considering a semi circular arch 13.5" nominal thick over 9" thick wall and 6' clear span				
	Arch masonry 1/2x 22/7x (6 + 1.13)x 0.75x 1.13	9.50	Cu.ft.		
	2nd class burnt br.masonry required for formwork with 50% honey combing = 1/2x1/2x22/7x36x1/4x0.75	5.30	Cu.ft.		
	Proping 3 nos. 3 x 0.75 x 0.75 x 7	11.81	Cu.ft.		
		17.12	Cu.ft.	=	0.48 Cu.m.
	Taking 3/8" thick mortar joint				
	Bricks 486 x 0.48	235.58	Nos.		
	Mud Mortar 0.217 x 0.48	0.11	Cu.m.		
	1.5" thick partal wood 8.75' x 0.75 x 1.5	0.82	Cu.ft.		
	Material required for one cu.m.				
	Bricks 236 x 35.31/9.5	876.02	Nos.		
	Mortar 0.11 x 35.31/9.5	0.41	Cu.m.		
	Partal wood 0.82 x 35.31/9.5	3.05	Cu.ft.		
	Wastage @ 15%	0.46	Cu.ft.		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
		3.51	Cu.ft.		
	Taking the use of bricks as				
	The cost per use =	1/50 x 876	17.52	Nos.	
	Bricks		17.52	No.	@ 10.00 175.20
	Mud Mortar		0.41	Cu.m.	@ 91.81 37.54
	Wood - Partal		3.51	Cu.ft.	@ 1200.00 4,209.52
	Sawing charges		3.51	Cu.ft.	@ 87.50 306.94
	Nails etc.				210.48
					<u>4,939.68</u>
	Labour for making formwork				
	Carpenter shuttering		4.00	Hrs	@ 125.00 500.00
	Helper		4.00	Hrs	@ 75.00 300.00
					<u>800.00</u>
	Cost for 25 uses				5,526.94
	Rate per use				221.08
	Repair charges @	10%			22.11
	Oiling and greasing	5%			11.05
					<u>254.24</u>
	Labour for erection of formwork				
	Mason		4.25	Hrs	@ 125.00 531.25
	Labourer		8.50	Hrs	@ 87.50 743.75
	Mistri		0.20	Hrs	@ 110.00 22.00
					<u>1,297.00</u>
	Total formwork (A+B+C+D)				1,763.98
	Contractor's profit & overhead			20%	352.80
	Total Composite rate				<u>4,124.08</u>
					4,124.10

Item No. 11-5

Extra for providing and laying first class tile masonry for arches of any kind of walls including scaffolding, formwork and its removal, raking out joints and curing in foundations, basement and plinth.

Cu.m. a) **Upto 9" (230 mm) nominal thick tile masonry**

1. Labour

For arch tile masonry

Mason	6.32	Hrs	@	125.00	790.00
Labourer	16.00	Hrs	@	87.50	1,400.00
Bahishti	1.60	Hrs	@	87.50	140.00
Mistri	6.32	Hrs	@	110.00	695.20
					<u>3,025.20</u>

Less av. labour used for brickwork as per item 11-2(a) + (b)

1,407.25

1,617.95

Contractor's profit & overhead

20%

323.59

Total Labour rate

1,941.54**1,941.55**

2. Material

Taking 3/8" mortar joint and 9" thick wall

Mortar	0.19	Cu.ft.			
Tiles	0.81	Cu.ft.			
	1.00	Cu.ft.			
Cubical content of tile	9 x 9/2 x 3/2	60.75	Cu.in.	=	0.04 Cu.ft.
Tiles in cu.m.	0.808 x 35.31	28.53	Cu.m.	=	811.53 Nos.
Tiles		811.53	Nos.		
Add wastage @ 10%		81.15	Nos.		
		<u>892.69</u>	Nos.		
Bricks	(510 + 486) / 2	498.00	Nos.		
Add wastage @ 10%		49.80	Nos.		
		<u>547.80</u>	Nos.		

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
	Brick tiles	892.69	No.	@	6.20	5,534.66
	Less cost of bricks					
	Bricks	547.80	No.	@	10.00	5,478.00
						56.66
	3. Formwork					1,763.98
	Total of 2 & 3					1,820.64
	Contractor's profit & overhead				20%	364.13
	Total Composite rate					4,126.31
						4,126.30
Cu.m.	b) Above 9" (230 mm) nominal thick tile masonry					
	1. Labour					
	For arch tile masonry					
	Mason	6.20	Hrs	@	125.00	775.00
	Labourer	16.00	Hrs	@	87.50	1,400.00
	Bahishti	1.60	Hrs	@	87.50	140.00
	Mistri	6.20	Hrs	@	110.00	682.00
						2,997.00
	Less av. labour used for brickwork as per item 11-2(b)					1,194.75
						1,802.25
	Contractor's profit & overhead				20%	360.45
	Total Labour rate					2,162.70
						2,162.70
	2. Material					56.66
	3. Formwork					1,763.98
	Total of 2 & 3					1,820.64
	Contractor's profit & overhead				20%	364.13
	Total Composite rate					4,347.47
						4,347.45
	Item No. 11-6-1					
Cu.m.	Extra for every additional 6 ft (2 m) or part thereof in foundation and basement masonry deeper than 6 ft (2 m)					
	1. Labour					
	Labourer	2.75	Hrs	@	87.50	240.63
	Bahishti	0.20	Hrs	@	87.50	17.50
						258.13
	Contractor's profit & overhead				20%	51.63
	Total Labour rate					309.75
						309.75
	Item No. 11-7-1					
Cu.m.	Extra for every additional 5 ft (1.5 m) or part thereof in plinth higher than 5 ft (1.5m)					
	1. Labour					
	Labourer	2.00	Hrs	@	87.50	175.00
	Bahishti	0.20	Hrs	@	87.50	17.50
						192.50
	Contractor's profit & overhead				20%	38.50
	Total Labour rate					231.00
						231.00
	Item No. 11-8-1					
Cu.m.	Extra for every additional 6 ft (2m) or part thereof for arch brick or tile masonry in foundation and basement masonry deeper than 6ft (2m)					
	1. Labour					
	Labourer	2.75	Hrs	@	87.50	240.63
	Bahishti	0.20	Hrs	@	87.50	17.50

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
			258.13				
	Contractor's profit & overhead	20%	51.63				
	Total Labour rate		309.75		309.75		
	2. Scaffolding & formwork	15%	38.72				
	Contractor's profit & overhead	20%	7.74				
	Total Composite rate		356.21		356.20		
	Item No.11-9-1						
Cu.m.	Extra for every additional 5 ft (1.5m) or part thereof for arch brick or tile masonry in plinth higher than 5ft (1.5m)						
	1. Labour						
	Labourer	2.00	Hrs	@	87.50	175.00	
	Bahishti	0.20	Hrs	@	87.50	17.50	
						192.50	
	Contractor's profit & overhead			20%		38.50	
	Total Labour rate					231.00	231.00
	2. Scaffolding & formwork			15.0%		28.88	
	Contractor's profit & overhead			20%		5.78	
	Total Composite rate					265.65	265.65
	Item No. 11-10						
	Providing and laying sundried clay bricks set in mud mortar including scaffolding in ground floor superstructure						
Cu.m.	a) Upto 4.5" (115 mm) nominal thick brick work						
	1. Labour						
	Mason	8.00	Hrs	@	125.00	1,000.00	
	Labourer	10.00	Hrs	@	87.50	875.00	
	Contractor's profit & overhead			20%		375.00	
	Total Labour rate					2,250.00	2,250.00
	2. Material	Same as in item no.11-1(a)				3,470.71	
	3. Scaffolding			1.5%		52.06	
	Total of 2 & 3					3,522.77	
	Contractor's profit & overhead			20%		704.55	
	Total Composite rate					6,477.33	6,477.35
Cu.m.	b) Above 4.5" (115mm) nominal thick brickwork						
	1. Labour						
	Mason	6.00	Hrs	@	125.00	750.00	
	Labourer	8.00	Hrs	@	87.50	700.00	
	Contractor's profit & overhead			20%		290.00	
	Total Labour rate					1,740.00	1,740.00
	2. Material	Same as in item no.11-1(b)				2,979.96	
	2. Scaffolding & formwork			1.5%		49.00	
	Total of 2 & 3					3,028.96	
	Contractor's profit & overhead			20%		605.79	
	Total Composite rate					5,374.75	5,374.75
	Item No. 11-11						
	Providing and laying first class solid burnt brick masonry (Brick Strength:1800psi-2000psi) set in mud mortar including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing						

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Cu.m.	a) Upto 4.5" (115 mm) nominal thick brick work				
	1. Labour				
	Mason	8.00	Hrs @	125.00	1,000.00
	Labourer	10.00	Hrs @	87.50	875.00
	Bahishti	1.25	Hrs @	87.50	109.38
	Mistri	0.35	Hrs @	110.00	38.50
					<u>2,022.88</u>
	Contractor's profit & overhead		20%		404.58
	Total Labour rate				<u>2,427.45</u> 2,427.45
	2. Material				
	Same as in item no.11-1(a)				3,470.71
	3. Scaffolding			1.0%	34.71
	Total of 2 & 3				<u>3,505.42</u>
	Contractor's profit & overhead		20%		701.08
	Total Composite rate				<u>6,633.95</u> 6,633.95
Cu.m.	b) Above 4.5" (115mm) nominal thick brickwork				
	1. Labour				
	Mason	6.00	Hrs @	125.00	750.00
	Labourer	8.00	Hrs @	87.50	700.00
	Bahishti	1.25	Hrs @	87.50	109.38
	Mistri	0.35	Hrs @	110.00	38.50
					<u>1,597.88</u>
	Contractor's profit & overhead		20%		319.58
	Total Labour rate				<u>1,917.45</u> 1,917.45
	2. Material				
	Same as in item no.11-1(b)				2,979.96
	3. Scaffolding			3.3%	98.34
	Total of 2 & 3				<u>3,078.30</u>
	Contractor's profit & overhead		20%		615.66
	Total Composite rate				<u>5,611.41</u> 5,611.40
	Item No. 11-12				
	Providing and laying first class solid burnt brick masonry (Brick Strength:1800psi-2000psi) including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing				
Cu.m.	a) Upto 4.5" (115 mm) nominal thick brick work				
	i) Cement sand 1 : 2				
	1. Labour	Same as in item 11-11 (a)			2,427.45 2,427.45
	2. Material	Same as in item 11-3(a)1			6,593.86
	3. Scaffolding			1.5%	98.91
	Total of 2 & 3				<u>6,692.77</u>
	Contractor's profit & overhead		20%		1,338.55
	Total Composite rate				<u>10,458.77</u> 10,458.75
	ii) Cement sand 1 : 3				
	1. Labour	Same as in item 11-11 (a)			2,427.45 2,427.45
	2. Material	Same as in item 11-3(a)2			6,237.07
	3. Scaffolding			1.5%	93.56
	Total of 2 & 3				<u>6,330.62</u>
	Contractor's profit & overhead		20%		1,266.12
	Total Composite rate				<u>10,024.20</u> 10,024.20

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
iii) Cement sand 1 : 4			
1. Labour	Same as in item 11-11 (a)	2,427.45	2,427.45
2. Material	Same as in item 11-3(a)3	6,045.23	
3. Scaffolding		1.5% 90.68	
Total of 2 & 3		<u>6,135.91</u>	
Contractor's profit & overhead		20% 1,227.18	
Total Composite rate		<u>9,790.54</u>	9,790.55
iv) Cement sand 1 : 5			
1. Labour	Same as in item 11-11 (a)	2,427.45	2,427.45
2. Material	Same as in item 11-3(a)4	5,933.33	
3. Scaffolding		1.5% 89.00	
Total of 2 & 3		<u>6,022.33</u>	
Contractor's profit & overhead		20% 1,204.47	
Total Composite rate		<u>9,654.25</u>	9,654.25
v) Cement sand 1 : 6			
1. Labour	Same as in item 11-11 (a)	2,427.45	2,427.45
2. Material	Same as in item 11-3(a)5	5,853.40	
3. Scaffolding		1.5% 87.80	
Total of 2 & 3		<u>5,941.20</u>	
Contractor's profit & overhead		20% 1,188.24	
Total Composite rate		<u>9,556.89</u>	9,556.90
vi) Cement sand 1 : 7			
1. Labour	Same as in item 11-11 (a)	2,427.45	2,427.45
2. Material	Same as in item 11-3(a)6	5,805.44	
3. Scaffolding		1.5% 87.08	
Total of 2 & 3		<u>5,892.52</u>	
Contractor's profit & overhead		20% 1,178.50	
Total Composite rate		<u>9,498.48</u>	9,498.50
vii) Cement sand 1 : 8			
1. Labour	Same as in item 11-11 (a)	2,427.45	2,427.45
2. Material	Same as in item 11-3(a)7	5,757.48	
3. Scaffolding		1.5% 86.36	
Total of 2 & 3		<u>5,843.84</u>	
Contractor's profit & overhead		20% 1,168.77	
Total Composite rate		<u>9,440.06</u>	9,440.05
Cu.m. b) Above 4.5" (115mm) nominal thick brick work			
i) Cement sand 1 : 2			
1. Labour	Same as in item 11-11(b)	1,917.45	1,917.45
2. Material	Same as in item 11-3(b)1	6,792.46	
3. Scaffolding		1.5% 101.89	
Total of 2 & 3		<u>6,894.34</u>	
Contractor's profit & overhead		20% 1,378.87	
Total Composite rate		<u>10,190.66</u>	10,190.65

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
ii) Cement sand 1 : 3			
1. Labour	Same as in item 11-11(b)	1,917.45	1,917.45
2. Material	Same as in item 11-3(b)2	6,294.87	
3. Scaffolding		1.5% 94.42	
Total of 2 & 3		6,389.30	
Contractor's profit & overhead		20% 1,277.86	
Total Composite rate		9,584.61	9,584.60
iii) Cement sand 1 : 4			
1. Labour	Same as in item 11-11(b)	1,917.45	1,917.45
2. Material	Same as in item 11-3(b)3	6,013.52	
3. Scaffolding		1.5% 90.20	
Total of 2 & 3		6,103.72	
Contractor's profit & overhead		20% 1,220.74	
Total Composite rate		9,241.91	9,241.90
iv) Cement sand 1 : 5			
1. Labour	Same as in item 11-11(b)	1,917.45	1,917.45
2. Material	Same as in item 11-3(b)4	5,849.39	
3. Scaffolding		1.5% 87.74	
Total of 2 & 3		5,937.13	
Contractor's profit & overhead		20% 1,187.43	
Total Composite rate		9,042.01	9,042.00
v) Cement sand 1 : 6			
1. Labour	Same as in item 11-11(b)	1,917.45	1,917.45
2. Material	Same as in item 11-3(b)5	5,732.16	
3. Scaffolding		1.5% 85.98	
Total of 2 & 3		5,818.14	
Contractor's profit & overhead		20% 1,163.63	
Total Composite rate		8,899.22	8,899.20
vi) Cement sand 1 : 7			
1. Labour	Same as in item 11-11(b)	1,917.45	1,917.45
2. Material	Same as in item 11-3(b)6	5,661.82	
3. Scaffolding		1.5% 84.93	
Total of 2 & 3		5,746.75	
Contractor's profit & overhead		20% 1,149.35	
Total Composite rate		8,813.54	8,813.55
vii) Cement sand 1 : 8			
1. Labour	Same as in item 11-11(b)	1,917.45	1,917.45
2. Material	Same as in item 11-3(b)7	5,591.48	
3. Scaffolding		1.5% 83.87	
Total of 2 & 3		5,675.35	
Contractor's profit & overhead		20% 1,135.07	
Total Composite rate		8,727.87	8,727.85

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11-13

Extra for providing and laying first class burnt brick masonry (Brick Strength:1800psi-2000psi) for arches of any kind of wall including scaffolding, formwork and its removal, raking out joints and curing in ground floor superstructures and i/c cost of testing

Cu.m. a) Upto 4.5" (115 mm) nominal thick brick work

1. Labour

For arch masonry

Mason	9.00	Hrs	@	125.00	1,125.00
Labourer	9.00	Hrs	@	87.50	787.50
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00

2,098.75

Less labour used as per item 11-11(a)

2,022.88

75.88

Contractor's profit & overhead

20%

15.18

Total Labour rate

91.05

91.05

2. Material Same as in item 11-4(a)

261.50

3. Formwork Same as in item 11-4(a)

1,848.61

Total of 2 & 3

2,110.11

Contractor's profit & overhead

20%

422.02

Total Composite rate

2,623.18

2,623.20**Cu.m. b) Above 4.5" (115mm) nominal thick brick work**

1. Labour

For arch masonry

Mason	8.00	Hrs	@	125.00	1,000.00
Labourer	8.00	Hrs	@	87.50	700.00
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00

1,886.25

Less labour used as per item 11-11(b)

1,597.88

288.38

Contractor's profit & overhead

20%

57.68

Total Labour rate

346.05

346.05

2. Material Same as in item 11-4(a)

261.50

3. Formwork Same as in item 11-4(b)

1,763.98

Total of 2 & 3

2,025.48

Contractor's profit & overhead

20%

405.10

Total Composite rate

2,776.63

2,776.65**Item No. 11-14**

Extra for providing and laying first class tile masonry for arches of any kind of walls including scaffolding, formwork and its removal, raking out joints and curing in ground floor superstructures.

Cu.m. a) Upto 9" (230 mm) nominal thick tile masonry

1. Labour

For arch tile masonry

Mason	25.00	Hrs	@	125.00	3,125.00
Labourer	25.00	Hrs	@	87.50	2,187.50
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00

5,498.75

Less av. labour used for brickwork as per item 11-11(a) + (b)

1,810.38

3,688.38

Contractor's profit & overhead

20%

737.68

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		4,426.05		4,426.05
	2. Material	Same as item 11-5(a)	56.66		
	3. Formwork	Same as item 11-4(b)	1,763.98		
	Total of 2 & 3		1,820.64		
	Contractor's profit & overhead	20%	364.13		
	Total Composite rate		6,610.82		6,610.80
Cu.m.	b) Above 9" (230 mm) nominal thick tile masonry				
	1. Labour				
	For arch tile masonry				
	Mason	22.00	Hrs	@ 125.00	2,750.00
	Labourer	22.00	Hrs	@ 87.50	1,925.00
	Bahishti	1.50	Hrs	@ 87.50	131.25
	Mistri	0.50	Hrs	@ 110.00	55.00
					4,861.25
	Less av. labour used for brickwork as per item 11-11(b)				1,597.88
					3,263.38
	Contractor's profit & overhead	20%			652.68
	Total Labour rate				3,916.05
					3,916.05
	2. Material	Same as item 11-5(a)			56.66
	3. Formwork	Same as item 11-4(c)			1,763.98
	Total of 2 & 3				1,820.64
	Contractor's profit & overhead	20%			364.13
	Total Composite rate				6,100.82
					6,100.80
	Item No. 11-15				
	Extra for masonry in pillars and columns in foundation				
Cu.m.	a) Rectangular or square shape				
	1. Labour				
	Mason	10.00	Hrs	@ 125.00	1,250.00
	Labourer	12.00	Hrs	@ 87.50	1,050.00
	Bahishti	2.00	Hrs	@ 87.50	175.00
	Mistri	0.50	Hrs	@ 110.00	55.00
					2,530.00
	Less labour used for brickwork as per item 11-2(a)+(b)				1,407.25
					1,122.75
	Contractor's profit & overhead	20%			224.55
	Total Labour rate				1,347.30
					1,347.30
	2. Scaffolding			1.5%	37.95
	Contractor's profit &			20%	7.59
	Total Composite rate				1,392.84
					1,392.85
Cu.m.	b) Round shape				
	1. Labour				
	Mason	15.50	Hrs	@ 125.00	1,937.50
	Labourer	19.50	Hrs	@ 87.50	1,706.25
	Bahishti	2.00	Hrs	@ 87.50	175.00
	Mistri	0.50	Hrs	@ 110.00	55.00
					3,873.75
	Less labour used for brickwork as per item 11-15(a)				1,407.25
					2,466.50
	Contractor's profit & overhead	20%			493.30
	Total Labour rate				2,959.80
					2,959.80

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

2. Material

Nos. of bricks in

4.5" thick wall

510.00 Nos.

9" thick wall

489.00 Nos.

13.5" thick wall

483.00 Nos.

Total = 1482.00 Nos.

Average = 494.00 Nos.

Additional wastage of bricks @ 5%

24.70 No.

@

10.00

247.00

3. Scaffolding

1.5%

58.11

Total of 2 & 3

305.11

Contractor's profit & overhead

20%

61.02

Total Composite rate

3,325.93

3,325.95**Item No. 11-16****Extra for masonry in pillars and cloumns in ground floor superstructure**Cu.m. a) **Rectangular or square shape**

1. Labour

For pillars

Same as in item 11-15 (a)

2,530.00

Less labour used for brickwork as per item 11-11(a)+(b)+(c)

1,810.38

719.63

Contractor's profit & overhead

20%

143.93

Total Labour rate

863.55

863.55

2. Scaffolding

1.5%

37.95

Contractor's profit & overhead

20%

7.59

Total Composite rate

909.09

909.10Cu.m. b) **Round shape**

1. Labour

For pillars

Same as in item 11-15 (b)

3,873.75

Less labour used for brickwork as per item 11-16(a)

1,810.38

2,063.38

Contractor's profit & overhead

20%

412.68

Total Labour rate

2,476.05

2,476.05

2. Material

Same as item 11-15(b)

247.00

3. Scaffolding

1.5%

58.11

Total of 2 & 3

305.11

Contractor's profit & overhead

20%

61.02

Total Composite rate

2,842.18

2,842.20**Item No. 11-17-1****Extra for masonry of any description in steps.**

Cu.m. Rectangular or square shape

1. Labour

Mason

8.50

Hrs

@

125.00

1,062.50

Labourer

12.75

Hrs

@

87.50

1,115.63

Bahishti

1.75

Hrs

@

87.50

153.13

Mistri

0.50

Hrs

@

110.00

55.00

2,386.25

Less labour used for brickwork as per item 11-15(a)

1,407.25

Total

979.00

Contractor's profit & overhead

20%

195.80

Total Labour rate

1,174.80

1,174.80

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11-18-1

Cu.m. **Extra for masonry of any description for bonding old and new masonry including making recesses as required (New masonry inserted in old masonry to be measured)**

1. Labour

For dismantling: Same as in item 4-13(a)

Extra labour for special nature of work

151.25
0.75 113.44

264.69

Contractor's profit & overhead

20% 52.94

Total Labour rate

317.63 **317.65**

2. Material

Add for extra material

0.25 66.17

Sundries

10% 26.47

Total

92.64

Contractor's profit & overhead

20% 18.53

Total Composite rate

428.79 **428.80**

Item No. 11-19

Providing and laying first class burnt brick honey comb masonry (Brick Strength:1800psi-2000psi) including scaffolding, raking out joints where required and curing in ground floor superstructure (opening not to be deducted for the purpose of measurement) and i/c cost of testing

Cu.m. a) Upto 4.5" (115 mm) nominal thick brick work

Opening = 3" x 3" (25 mm x 25 mm)

Bearing = One inch (25 mm)

Bricks in hollow masonry:

After 9" length, gap = 3" therefore the length = 9" + 3" = 12"

12"x4-3/8x2-11/16 = 141.09 Cu.in.

Mortar = 9"x 4-3/8 x 3/8 14.77 Cu.in.

Mortar = 14.77 x 10.76/1728 0.09 Cu.ft.

Bricks = 35.31/.090 384.04 Nos.

Wastage @ 5% 19.20

403.24 Nos.

Mortar 384 x 14.77 / 1728 0.09 Cu.m.

Wastage @ 10% 0.01 Cu.m.

0.10 Cu.m.

i) **Cement sand 1 : 2**

1. Labour

Mason 5.50 Hrs @ 125.00 687.50

Labourer 5.50 Hrs @ 87.50 481.25

Bahishti 1.00 Hrs @ 87.50 87.50

Mistri 0.25 Hrs @ 110.00 27.50

1,283.75

Contractor's profit & overhead

20% 256.75

Total Labour rate

1,540.50 **1,540.50**

2. Material

Bricks 403 No. @ 10.00 4,032.43

Mortar 0.10 Cu.m. @ 8442.75 863.11

Water charges 1.5% 73.43

4,968.97

3. Scaffolding

6% 298.14

Total of 2 & 3

5,267.11

Contractor's profit & overhead

20% 1,053.42

Total Composite rate

7,861.03 **7,861.05**

ii) **Cement sand 1 : 3**

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour	Same as in item 11-19 (a)		1,540.50		1,540.50
2. Material					
Bricks	403 No. @ 10.00		4,032.43		
Mortar	0.10 Cu.m. @ 6099.30		623.53		
Water charges	1.5%		69.84		
			<u>4,725.80</u>		
3. Scaffolding			6%	283.55	
Total of 2 & 3			<u>5,009.35</u>		
Contractor's profit & overhead			20%	1,001.87	
Total Composite rate			<u>7,551.72</u>		7,551.70
iii) Cement sand 1 : 4					
1. Labour	Same as in item 11-19 (a)		1,540.50		1,540.50
2. Material					
Bricks	403 No. @ 10.00		4,032.43		
Mortar	0.10 Cu.m. @ 4839.30		494.72		
Water charges	1.5%		67.91		
			<u>4,595.06</u>		
3. Scaffolding			6%	275.70	
Total of 2 & 3			<u>4,870.76</u>		
Contractor's profit & overhead			20%	974.15	
Total Composite rate			<u>7,385.42</u>		7,385.40
iv) Cement sand 1 : 5					
1. Labour	Same as in item 11-19 (a)		1,540.50		1,540.50
2. Material					
Bricks	403 No. @ 10.00		4,032.43		
Mortar	0.10 Cu.m. @ 4104.30		419.58		
Water charges	1.5%		66.78		
			<u>4,518.79</u>		
3. Scaffolding			6%	271.13	
Total of 2 & 3			<u>4,789.92</u>		
Contractor's profit & overhead			20%	957.98	
Total Composite rate			<u>7,288.40</u>		7,288.40
v) Cement sand 1 : 6					
1. Labour	Same as in item 11-19 (a)		1,540.50		1,540.50
2. Material					
Bricks	403 No. @ 10.00		4,032.43		
Mortar	0.10 Cu.m. @ 3579.30		365.91		
Water charges	1.5%		65.98		
			<u>4,464.32</u>		
3. Scaffolding			6%	267.86	
Total of 2 & 3			<u>4,732.18</u>		
Contractor's profit & overhead			20%	946.44	
Total Composite rate			<u>7,219.11</u>		7,219.10
vi) Cement sand 1 : 7					
1. Labour	Same as in item 11-19 (a)		1,540.50		1,540.50
2. Material					
Bricks	403 No. @ 10.00		4,032.43		
Mortar	0.10 Cu.m. @ 3264.30		333.71		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Water charges	1.5%	65.49		
			4,431.63		
	3. Scaffolding	6%	265.90		
	Total of 2 & 3		4,697.53		
	Contractor's profit & overhead	20%	939.51		
	Total Composite rate		7,177.54		7,177.55
vii) Cement sand 1 : 8					
	1. Labour	Same as in item 11-19 (a)	1,540.50		1,540.50
	2. Material				
	Bricks	403 No.	@ 10.00	4,032.43	
	Mortar	0.10 Cu.m.	@ 2949.30	301.51	
	Water charges		1.5%	65.01	
				4,398.95	
	3. Scaffolding		6%	263.94	
	Total of 2 & 3			4,662.88	
	Contractor's profit & overhead		20%	932.58	
	Total Composite rate			7,135.96	7,135.95
Cu.m. b) Upto 13.5" (345 mm) nominal thick brick work					
	Opening =	3" x 3" (25 mm x 25 mm)			
	Bearing =	3/4 inch (19 mm)			
	Bricks in hollow masonry:				
	After 4.5" length, gap = 3" therefore the length = 4.5"+3"=	7.5"			
		9"x7-3/8x2-11/16 =	178.38	Cu.in.	
	Mortar =	9"x 4-3/8 x 3/8	14.77	Cu.in.	
	Mortar =	193.149/1728	0.11	Cu.ft.	
	Bricks =	35.31/0.112	315.90	Nos.	
	Wastage @ 5%		15.79		
			331.69	Nos.	
	Mortar	316 x 14.77 / 1728/35.31	0.08	Cu.m.	
	Wastage @ 10%		0.01	Cu.m.	
			0.08	Cu.m.	
i) Cement sand 1 : 2					
	1. Labour				
	Mason	5.00 Hrs	@ 125.00	625.00	
	Labourer	6.00 Hrs	@ 87.50	525.00	
	Bahishti	0.75 Hrs	@ 87.50	65.63	
	Mistri	0.25 Hrs	@ 110.00	27.50	
				1,243.13	
	Contractor's profit & overhead		20%	248.63	
	Total Labour rate			1,491.75	1,491.75
	2. Material				
	Bricks	332 No.	@ 10.00	3,316.95	
	Mortar	0.08 Cu.m.	@ 8442.75	709.96	
	Water charges		1.5%	60.40	
				4,087.31	
	3. Scaffolding		4%	163.49	
	Total of 2 & 3			4,250.80	
	Contractor's profit & overhead		20%	850.16	
	Total Composite rate			6,592.72	6,592.70
ii) Cement sand 1 : 3					
	1. Labour	Same as in item 11-19 (b)	1,491.75		1,491.75

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
2. Material					
Bricks	332 No. @	10.00	3,316.95		
Mortar	0.08 Cu.m. @	6099.30	512.90		
Water charges		1.5%	57.45		
			<u>3,887.29</u>		
3. Scaffolding		4%	155.49		
Total of 2 & 3			<u>4,042.78</u>		
Contractor's profit & overhead		20%	808.56		
Total Composite rate			<u>6,343.09</u>		6,343.10
iii) Cement sand 1 : 4					
1. Labour	Same as in item 11-19 (b)		1,491.75		1,491.75
2. Material					
Bricks	332 No. @	10.00	3,316.95		
Mortar	0.08 Cu.m. @	4839.30	406.94		
Water charges		1.5%	55.86		
			<u>3,779.75</u>		
3. Scaffolding		4%	151.19		
Total of 2 & 3			<u>3,930.94</u>		
Contractor's profit & overhead		20%	786.19		
Total Composite rate			<u>6,208.87</u>		6,208.85
iv) Cement sand 1 : 5					
1. Labour	Same as in item 11-19 (b)		1,491.75		1,491.75
2. Material					
Bricks	332 No. @	10.00	3,316.95		
Mortar	0.08 Cu.m. @	4104.30	345.14		
Water charges		1.5%	54.93		
			<u>3,717.01</u>		
3. Scaffolding		4%	148.68		
Total of 2 & 3			<u>3,865.69</u>		
Contractor's profit & overhead		20%	773.14		
Total Composite rate			<u>6,130.58</u>		6,130.60
v) Cement sand 1 : 6					
1. Labour	Same as in item 11-19 (b)		1,491.75		1,491.75
2. Material					
Bricks	332 No. @	10.00	3,316.95		
Mortar	0.08 Cu.m. @	3579.30	300.99		
Water charges		1.5%	54.27		
			<u>3,672.20</u>		
3. Scaffolding		4%	146.89		
Total of 2 & 3			<u>3,819.09</u>		
Contractor's profit & overhead		20%	763.82		
Total Composite rate			<u>6,074.66</u>		6,074.65
vi) Cement sand 1 : 7					
1. Labour	Same as in item 11-19 (b)		1,491.75		1,491.75
2. Material					
Bricks	332 No. @	10.00	3,316.95		
Mortar	0.08 Cu.m. @	3264.30	274.50		
Water charges		1.5%	53.87		
			<u>3,645.32</u>		

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	3. Scaffolding			4%	145.81	
	Total of 2 & 3				3,791.13	
	Contractor's profit & overhead			20%	758.23	
	Total Composite rate				6,041.11	6,041.10

vii) **Cement sand 1 : 8**

1. Labour	Same as in item 11-19 (b)					1,491.75	1,491.75
2. Material							
Bricks	332	No.	@	10.00	3,316.95		
Mortar	0.08	Cu.m.	@	2949.30	248.01		
Water charges				1.5%	53.47		
					3,618.43		
3. Scaffolding				4%	144.74		
Total of 2 & 3					3,763.17		
Contractor's profit & overhead				20%	752.63		
Total Composite rate					6,007.55	6,007.55	

Item No. 11-20

Extra for providing and laying first class burnt brick masonry (Brick Strength:1800psi-2000psi) architrave of required shape of any kind of walls including cutting bricks to required shape, scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing

Cu.m. a) **Upto 9" (230 mm) nominal thick brick work**

1. Labour							
Mason	24.00	Hrs	@	125.00	3,000.00		
Labourer	24.00	Hrs	@	87.50	2,100.00		
Bahishti	2.00	Hrs	@	87.50	175.00		
Mistri	1.00	Hrs	@	110.00	110.00		
					5,385.00		
Less masonry in superstructure item (11.11a + 11.11b)/2					1,810.38		
					3,574.63		
Contractor's profit & overhead				20%	714.93		
Total Labour rate					4,289.55	4,289.55	
2. Material							
Same as item 11-4(a)					261.50		
Contractor's profit & overhead				20%	52.30		
Total Composite rate					4,603.35	4,603.35	

Cu.m. b) **Above 13.5" (345 mm) nominal thick brick work**

1. Labour							
Mason	21.00	Hrs	@	125.00	2,625.00		
Labourer	21.00	Hrs	@	87.50	1,837.50		
Bahishti	2.00	Hrs	@	87.50	175.00		
Mistri	1.00	Hrs	@	110.00	110.00		
					4,747.50		
Less masonry in superstructure item 11.11b					1,597.88		
					3,149.63		
Contractor's profit & overhead				20%	629.93		
Total Labour rate					3,779.55	3,779.55	
2. Material							
Same as item 11-4(a)					261.50		
Contractor's profit & overhead				20%	52.30		
Total Composite rate					4,093.35	4,093.35	

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11-21

Extra for providing and laying first class burnt tile masonry architrave of required shape of any kind of walls including cutting tiles to required shape, scaffolding, raking out joints and curing in ground floor superstructure.

Cu.m. a) **Upto 9" (230 mm) nominal thick tile masonry**

1. Labour						
Mason	28.00	Hrs	@	125.00	3,500.00	
Labourer	28.00	Hrs	@	87.50	2,450.00	
Bahishti	2.00	Hrs	@	87.50	175.00	
Mistri	1.00	Hrs	@	110.00	110.00	
					<u>6,235.00</u>	
Less masonry in superstructure item (11.11a + 11.11b)/2					1,810.38	
					<u>4,424.63</u>	
Contractor's profit & overhead				20%	884.93	
Total Labour rate					<u>5,309.55</u>	5,309.55
2. Material	Same as item 11-5(a)				56.66	
Contractor's profit & overhead				20%	11.33	
Total Composite rate					<u>5,377.54</u>	5,377.55

Cu.m. b) **Above 9" (230 mm) nominal thick tile masonry**

1. Labour						
Mason	25.00	Hrs	@	125.00	3,125.00	
Labourer	25.00	Hrs	@	87.50	2,187.50	
Bahishti	2.00	Hrs	@	87.50	175.00	
Mistri	1.00	Hrs	@	110.00	110.00	
					<u>5,597.50</u>	
Less masonry in superstructure item 11.11b					1,597.88	
					<u>3,999.63</u>	
Contractor's profit & overhead				20%	799.93	
Total Labour rate					<u>4,799.55</u>	4,799.55
2. Material	Same as item 11-5(a)				56.66	
Contractor's profit & overhead				20%	11.33	
Total Composite rate					<u>4,867.54</u>	4,867.55

Item No. 11-22

Extra for providing and laying first class burnt brick masonry (Brick Strength:1800psi-2000psi) coping of required shape any kind of walls including cutting bricks to required shape, scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing

Cu.m. a) **Upto 9" (230 mm) nominal thick brick work**

1. Labour						
Mason	19.00	Hrs	@	125.00	2,375.00	
Labourer	19.00	Hrs	@	87.50	1,662.50	
Bahishti	2.00	Hrs	@	87.50	175.00	
Mistri	0.75	Hrs	@	110.00	82.50	
					<u>4,295.00</u>	
Less masonry in superstructure item (11.11a + 11.11b)/2					1,810.38	
					<u>2,484.63</u>	
Contractor's profit & overhead				20%	496.93	
Total Labour rate					<u>2,981.55</u>	2,981.55
2. Material						
50% less wastage as item 11-4(a)					130.75	
Contractor's profit & overhead				20%	26.15	
Total Composite rate					<u>3,138.45</u>	3,138.45

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)

Cu.m. b) Above 9" (230 mm) nominal thick brick masonry

1. Labour							
Mason	16.00	Hrs	@	125.00	2,000.00		
Labourer	16.00	Hrs	@	87.50	1,400.00		
Bahishti	2.00	Hrs	@	87.50	175.00		
Mistri	0.75	Hrs	@	110.00	82.50		
					<u>3,657.50</u>		
Less masonry in superstructure item 11.11b						<u>1,597.88</u>	
						2,059.63	
Contractor's profit & overhead				20%	411.93		
Total Labour rate						<u>2,471.55</u>	2,471.55
2. Material						130.75	
Same as in item 11-22(a)							
Contractor's profit & overhead				20%	26.15		
Total Composite rate						<u>2,628.45</u>	2,628.45

Item No. 11-23

Extra for providing and laying first class burnt tile masonry coping of required shape any kind of walls including cutting tiles to required shape, scaffolding, raking out joints and curing in ground floor superstructure.

Cu.m. a) Upto 9" (230 mm) nominal thick tile masonry

1. Labour							
Mason	25.00	Hrs	@	125.00	3,125.00		
Labourer	25.00	Hrs	@	87.50	2,187.50		
Bahishti	2.00	Hrs	@	87.50	175.00		
Mistri	0.75	Hrs	@	110.00	82.50		
					<u>5,570.00</u>		
Less masonry in superstructure item (11.11a + 11.11b)/2						<u>1,810.38</u>	
						3,759.63	
Contractor's profit & overhead				20%	751.93		
Total Labour rate						<u>4,511.55</u>	4,511.55
2. Material							
Tiles as in item 11-5(a)	811.53	Nos.					
Add wastage @ 7.5%	60.87	Nos.					
	873.00	Nos.					
Bricks	(510 + 486) / 2	Nos.					
Add wastage @ 7.5%	498.00	Nos.					
	37.35	Nos.					
	535.35	Nos.					
Brick tiles	873.00	No.	@	6.20	5,412.60		
Less cost of bricks							
Bricks	535.35	No.	@	10.00	5,353.50		
					<u>59.10</u>		
Contractor's profit & overhead				20%	11.82		
Total Composite rate						<u>4,582.47</u>	4,582.45

Cu.m. b) Above 9" (230 mm) nominal thick tile masonry

1. Labour							
Mason	21.00	Hrs	@	125.00	2,625.00		
Labourer	21.00	Hrs	@	87.50	1,837.50		
Bahishti	2.00	Hrs	@	87.50	175.00		
Mistri	0.75	Hrs	@	110.00	82.50		
					<u>4,720.00</u>		
Less masonry in superstructure item 11.11b						<u>1,597.88</u>	
						3,122.13	
Contractor's profit & overhead				20%	624.43		

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	
	Total Labour rate	3,746.55		3,746.55
	2. Material	59.10		
	Contractor's profit & overhead	20%	11.82	
	Total Composite rate	3,817.47		3,817.45

Item No. 11-24

Extra for providing and laying first class burnt brick masonry (Brick Strength:1800psi-2000psi) cornice, moulding, string course and drip course of required shape in any kind of walls including cutting of bricks to required shape, scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing

Cu.m. a) **Upto 9" (230 mm) nominal thick brick work**

1. Labour

Mason	15.50	Hrs	@	125.00	1,937.50
Labourer	15.50	Hrs	@	87.50	1,356.25
Bahishti	2.00	Hrs	@	87.50	175.00
Mistri	0.75	Hrs	@	110.00	82.50

3,551.25

Less masonry in superstructure item (11.11a + 11.11b)/2

1,810.38

1,740.88

Contractor's profit & overhead

20%

348.18

Total Labour rate

2,089.05

2,089.05Cu.m. b) **Above 9" (230 mm) nominal thick brick masonry**

1. Labour

Mason	13.00	Hrs	@	125.00	1,625.00
Labourer	13.00	Hrs	@	87.50	1,137.50
Bahishti	2.00	Hrs	@	87.50	175.00
Mistri	0.75	Hrs	@	110.00	82.50

3,020.00

Less masonry in superstructure item 11.11b

1,597.88

1,422.13

Contractor's profit & overhead

20%

284.43

Total Labour rate

1,706.55

1,706.55**Item No. 11-25**

Extra for providing and laying first class burnt tile masonry cornice, moulding, barges, string course and drip course of required shape in any kind of walls including cutting tiles to required shape, scaffolding, raking out joints and curing in ground floor superstructure

Cu.m. a) **Upto 9" (230 mm) nominal thick tile masonry**

1. Labour

Mason	25.00	Hrs	@	125.00	3,125.00
Labourer	25.00	Hrs	@	87.50	2,187.50
Bahishti	2.00	Hrs	@	87.50	175.00
Mistri	0.75	Hrs	@	110.00	82.50

5,570.00

Less masonry in superstructure item (11.11a + 11.11b)/2

1,810.38

3,759.63

Contractor's profit & overhead

20%

751.93

Total Labour rate

4,511.55

4,511.55

2. Material

Tiles as in item 11-5(a)	811.53	Nos.			
Add wastage @ 5%	40.58	Nos.			
	853.00	Nos.			

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Bricks (536 + 510) / 2	523.00	Nos.		
	Add wastage @ 5%	26.15	Nos.		
		549.15	Nos.		
	Brick tiles	853.00	No.	@	6.20
	Less cost of bricks				5,288.60
	Bricks	549.15	No.	@	10.00
					5,491.50
					- 202.90
	Contractor's profit & overhead			20%	- 40.58
	Total Composite rate				4,268.07
					4,268.05
Cu.m.	b) Above 9" (230 mm) nominal thick tile masonry				
	1. Labour				
	Mason	16.75	Hrs	@	125.00
	Labourer	16.75	Hrs	@	87.50
	Bahishti	2.00	Hrs	@	87.50
	Mistri	0.75	Hrs	@	110.00
					3,816.88
	Less masonry in superstructure item 11.11b				1,597.88
					2,219.00
	Contractor's profit & overhead			20%	443.80
	Total Labour rate				2,662.80
					2,662.80
	2. Material				- 202.90
	Contractor's profit & overhead			20%	- 40.58
	Total Composite rate				2,419.32
					2,419.30
	Item No. 11-26				
Cu.m.	a) Extra for brick masonry (Brick Strength:1800psi-2000psi) in first floor				
	1. Labour				
	Mason	1.25	Hrs	@	125.00
	Labourer	4.00	Hrs	@	87.50
	Bahishti	0.20	Hrs	@	87.50
	Mistri	0.20	Hrs	@	110.00
					545.75
	Contractor's profit & overhead			20%	109.15
	Total Labour rate				654.90
					654.90
	2. Scaffolding				3% 16.37
	Contractor's profit & overhead			20%	3.27
	Total Composite rate				674.55
					674.55
Cu.m.	b) Extra for brick or tile masonry in every additional floor over first floor.				
	1. Labour				
	Mason	1.35	Hrs	@	125.00
	Labourer	1.50	Hrs	@	87.50
	Bahishti	0.25	Hrs	@	87.50
	Mistri	0.25	Hrs	@	110.00
					349.38
	Contractor's profit & overhead			20%	69.88
	Total Labour rate				419.25
					419.25
	2. Scaffolding				3% 10.48
	Contractor's profit & overhead			20%	2.10
	Total Composite rate				431.83
					431.85

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11-27**Cu.m. a) Extra for brick or tile masonry arches in first floor.**

1. Labour						
Mason	1.25	Hrs	@	125.00	156.25	
Labourer	5.50	Hrs	@	87.50	481.25	
Bahishti	0.20	Hrs	@	87.50	17.50	
Mistri	0.20	Hrs	@	110.00	22.00	
					677.00	
Contractor's profit & overhead				20%	135.40	
Total Labour rate					812.40	812.40
2. Scaffolding					3%	20.31
3. Formwork					5%	33.85
Total of 2 & 3						54.16
Contractor's profit & overhead				20%	10.83	
Total Composite rate					877.39	877.40

Cu.m. b) Extra for brick or tile masonry arches in every additional floor over first floor.

1. Labour						
Mason	1.35	Hrs	@	125.00	168.75	
Labourer	3.00	Hrs	@	87.50	262.50	
Bahishti	0.25	Hrs	@	87.50	21.88	
Mistri	0.25	Hrs	@	110.00	27.50	
					480.63	
Contractor's profit & overhead				20%	96.13	
Total Labour rate					576.75	576.75
2. Scaffolding					3%	14.42
3. Formwork					5%	24.03
Total of 2 & 3						38.45
Contractor's profit & overhead				20%	7.69	
Total Composite rate					622.89	622.90

Item No. 11-28**Cu.m. a) Extra for honey comb masonry (Brick Strength:1800psi-2000psi) in first floor**

1. Labour						
Mason	1.25	Hrs	@	125.00	156.25	
Labourer	2.50	Hrs	@	87.50	218.75	
Bahishti	0.20	Hrs	@	87.50	17.50	
Mistri	0.20	Hrs	@	110.00	22.00	
					414.50	
Contractor's profit & overhead				20%	82.90	
Total Labour rate					497.40	497.40
2. Scaffolding					3%	12.44
Contractor's profit & overhead				20%	2.49	
Total Composite rate					512.32	512.30

Cu.m. b) Extra for honey comb masonry in every additional floor over first floor.

1. Labour						
Mason	1.35	Hrs	@	125.00	168.75	
Labourer	1.50	Hrs	@	87.50	131.25	
Bahishti	0.25	Hrs	@	87.50	21.88	
Mistri	0.25	Hrs	@	110.00	27.50	
					349.38	

Unit	Description			Component Cost	Unit	Rate
				(Rs)	(Rs)	
	Contractor's profit & overhead	20%		69.88		
	Total Labour rate			419.25		419.25
	2. Scaffolding	3%		10.48		
	Contractor's profit & overhead	20%		2.10		
	Total Composite rate			431.83		431.85

Item No. 11-29

Providing and laying first class brick masonry (Brick Strength:1800psi-2000psi) in steining of walls including scaffolding and curing upto 10 ft (3 m) depth and i/c cost of testing.

Cu.m. a) Upto 13.5" (345 mm) nominal thick brick masonry**i) Cement sand 1 : 2**

1. Labour

Mason	7.75	Hrs	@	125.00	968.75
Labourer	11.00	Hrs	@	87.50	962.50
Bahishti	1.25	Hrs	@	87.50	109.38
Mistri	0.35	Hrs	@	110.00	38.50
					<u>2,079.13</u>

Contractor's profit & overhead 20% 415.83

Total Labour rate 2,494.95 **2,494.95**

2. Material

Bricks	(523 + 486)/2	504.50	No.	@	10.00	5,045.00
Mortar	(0.15 + 0.217)/2	0.18	Cu.m.	@	8443	1,549.24
Water charges					1.5%	98.91
						<u>6,693.16</u>

3. Scaffolding

Total of 2 & 3 5% 334.66

Contractor's profit & overhead 20% 1,405.56

Total Composite rate 10,928.33 **10,928.35**

ii) Cement sand 1 : 3

1. Labour Same as in item 11-29 (a) 2,494.95 **2,494.95**

2. Material

Bricks	504.50	No.	@	10.00	5,045.00
Mortar	0.18	Cu.m.	@	6099.30	1,119.22
Water charges				1.5%	92.46
					<u>6,256.68</u>

3. Scaffolding

Total of 2 & 3 5% 312.83

Contractor's profit & overhead 20% 6,569.52

Total Composite rate 10,378.37 **10,378.35**

iii) Cement sand 1 : 4

1. Labour Same as in item 11-29 (a) 2,494.95 **2,494.95**

2. Material

Bricks	504.50	No.	@	10.00	5,045.00
Mortar	0.18	Cu.m.	@	4839.30	888.01
Water charges				1.5%	89.00
					<u>6,022.01</u>

3. Scaffolding

Total of 2 & 3 5% 301.10

Contractor's profit & overhead 20% 6,323.11

Total Composite rate 1,264.62

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate			10,082.68	10,082.70
iv)	Cement sand 1 : 5				
1.	Labour	Same as in item 11-29 (a)		2,494.95	2,494.95
2.	Material				
	Bricks	504.50	No.	@ 10.00	5,045.00
	Mortar	0.18	Cu.m.	@ 4104.30	753.14
	Water charges			1.5%	86.97
					<u>5,885.11</u>
3.	Scaffolding			5%	294.26
	Total of 2 & 3				<u>6,179.37</u>
	Contractor's profit & overhead			20%	1,235.87
	Total Composite rate			9,910.19	9,910.20
v)	Cement sand 1 : 6				
1.	Labour	Same as in item 11-29 (a)		2,494.95	2,494.95
2.	Material				
	Bricks	504.50	No.	@ 10.00	5,045.00
	Mortar	0.18	Cu.m.	@ 3579.30	656.80
	Water charges			1.5%	85.53
					<u>5,787.33</u>
3.	Scaffolding			5%	289.37
	Total of 2 & 3				<u>6,076.70</u>
	Contractor's profit & overhead			20%	1,215.34
	Total Composite rate			9,786.98	9,787.00
vi)	Cement sand 1 : 7				
1.	Labour	Same as in item 11-29 (a)		2,494.95	2,494.95
2.	Material				
	Bricks	504.50	No.	@ 10.00	5,045.00
	Mortar	0.18	Cu.m.	@ 3264.30	599.00
	Water charges			1.5%	84.66
					<u>5,728.66</u>
3.	Scaffolding			5%	286.43
	Total of 2 & 3				<u>6,015.09</u>
	Contractor's profit & overhead			20%	1,203.02
	Total Composite rate			9,713.06	9,713.05
vii)	Cement sand 1 : 8				
1.	Labour	Same as in item 11-29 (a)		2,494.95	2,494.95
2.	Material				
	Bricks	504.50	No.	@ 10.00	5,045.00
	Mortar	0.18	Cu.m.	@ 2949.30	541.20
	Water charges			1.5%	83.79
					<u>5,669.99</u>
3.	Scaffolding			5%	283.50
	Total of 2 & 3				<u>5,953.49</u>
	Contractor's profit & overhead			20%	1,190.70
	Total Composite rate			9,639.14	9,639.15

Cu.m. b) **Above 13.5" (345 mm) nominal thick brick masonry**i) **Cement sand 1 : 2**

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Mason	5.50 Hrs @	125.00			687.50
Labourer	8.50 Hrs @	87.50			743.75
Bahishti	1.25 Hrs @	87.50			109.38
Mistri	0.35 Hrs @	110.00			38.50
					<u>1,579.13</u>
Contractor's profit & overhead		20%			315.83
Total Labour rate					<u>1,894.95</u> 1,894.95
2. Material					
Bricks	483.30 No. @	10.00			4,833.00
Mortar	0.23 Cu.m. @	8443			1,924.95
Water charges		1.5%			101.37
					<u>6,859.32</u>
3. Scaffolding				6%	411.56
Total of 2 & 3					<u>7,270.88</u>
Contractor's profit & overhead		20%			1,454.18
Total Composite rate					<u>10,620.00</u> 10,620.00
ii) Cement sand 1 : 3					
1. Labour	Same as in item 11-29 (b)				1,894.95 1,894.95
2. Material					
Bricks	480.00 No. @	10.00			4,800.00
Mortar	0.23 Cu.m. @	6099.30			1,390.64
Water charges		1.5%			92.86
					<u>6,283.50</u>
3. Scaffolding				6%	377.01
Total of 2 & 3					<u>6,660.51</u>
Contractor's profit & overhead		20%			1,332.10
Total Composite rate					<u>9,887.56</u> 9,887.55
iii) Cement sand 1 : 4					
1. Labour	Same as in item 11-29 (b)				1,894.95 1,894.95
2. Material					
Bricks	480.00 No. @	10.00			4,800.00
Mortar	0.23 Cu.m. @	4839.30			1,103.36
Water charges		1.5%			88.55
					<u>5,991.91</u>
3. Scaffolding				6%	359.51
Total of 2 & 3					<u>6,351.43</u>
Contractor's profit & overhead		20%			1,270.29
Total Composite rate					<u>9,516.66</u> 9,516.65
iv) Cement sand 1 : 5					
1. Labour	Same as in item 11-29 (b)				1,894.95 1,894.95
2. Material					
Bricks	480.00 No. @	10.00			4,800.00
Mortar	0.23 Cu.m. @	4104.30			935.78
Water charges		1.5%			86.04
					<u>5,821.82</u>
3. Scaffolding				6%	349.31
Total of 2 & 3					<u>6,171.13</u>
Contractor's profit & overhead		20%			1,234.23
Total Composite rate					<u>9,300.30</u> 9,300.30

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
v) Cement sand 1 : 6					
1. Labour	Same as in item 11-29 (b)			1,894.95	1,894.95
2. Material					
Bricks	480.00	No.	@	10.00	4,800.00
Mortar	0.23	Cu.m.	@	3579.30	816.08
Water charges				1.5%	84.24
					<u>5,700.32</u>
3. Scaffolding				6%	342.02
Total of 2 & 3					<u>6,042.34</u>
Contractor's profit & overhead				20%	1,208.47
Total Composite rate					<u>9,145.76</u> 9,145.75
vi) Cement sand 1 : 7					
1. Labour	Same as in item 11-29 (b)			1,894.95	1,894.95
2. Material					
Bricks	480.00	No.	@	10.00	4,800.00
Mortar	0.23	Cu.m.	@	3264.30	744.26
Water charges				1.5%	83.16
					<u>5,627.42</u>
3. Scaffolding				6%	337.65
Total of 2 & 3					<u>5,965.07</u>
Contractor's profit & overhead				20%	1,193.01
Total Composite rate					<u>9,053.03</u> 9,053.05
vii) Cement sand 1 : 8					
1. Labour	Same as in item 11-29 (b)			1,894.95	1,894.95
2. Material					
Bricks	480.00	No.	@	10.00	4,800.00
Mortar	0.23	Cu.m.	@	2949.30	672.44
Water charges				1.5%	82.09
					<u>5,554.53</u>
3. Scaffolding				6%	333.27
Total of 2 & 3					<u>5,887.80</u>
Contractor's profit & overhead				20%	1,177.56
Total Composite rate					<u>8,960.31</u> 8,960.30
Cu.m. c) Extra for every additional 5 ft (1.5 m) depth or part thereof for brick masonry in steining of walls.					
1. Labour					
Labourer	2.50	Hrs	@	87.50	218.75
Bahishti	0.20	Hrs	@	87.50	17.50
					<u>236.25</u>
Contractor's profit &				20%	47.25
Total Labour rate					<u>283.50</u> 283.50
2. Scaffolding					
Contractor's profit & overhead				3%	7.09
				20%	1.42
Total Composite rate					<u>292.01</u> 292.00

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11-30

Cu.m. Providing and laying first class burnt brick masonry (Brick Strength:1800psi-2000psi) cavity walls bonded with wall ties of approved design at required horizontal and vertical spacings including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing but excluding the cost of wall ties (No deduction will be made from the measurement for cavity in the wall).

Brick and mortar calculations

a) 2" to 3" (50 mm to 75 mm) nominal cavity and 4.5" (115 mm) wall width on either side.

Taking an average cavity = 5" (65 mm)

Mortar = 3/8" thick

Mortar for two bricks 4.5" thick wall = 2 x 19.79	39.58	Cu.in.		
Cavity = 1x9-3/8"x5/2"x43/16"	62.99	Cu.in.		
Bricks = 2 x 105.820	211.64	Cu.in.		
	314.21	Cu.in.	0.18	Cu.ft.
Bricks 2 x 35.31/0.18	388.38	Nos.		
Add 5% wastage	19.42	Nos.		
Bricks	407.80	Nos.		
Mortar 1/2 x 39.58/1728 x 388/35.31	0.13	Cu.m.		
Add 25% wastage	0.03			
Mortar	0.16	Cu.m.		

b) 2" to 3" (50 mm to 75 mm) nominal cavity and 4.5" (115 mm) wall width on one side and 9" (230 mm) wall width on the other side.

Mortar for two bricks 4.5" thick wall = 2 x 19.79	39.58	Cu.in.		
Mortar for four bricks 9" thick wall = 4 x 25.11	100.44	Cu.in.		
	140.02			
Cavity = 2 x 9-3/8"x 5/2"x 43/16"	125.98	Cu.in.		
Bricks = 6 x 105.82	634.92	Cu.in.		
	900.92	Cu.in.	=	0.52 Cu.ft.
Bricks 6 x 35.31/0.52	406.36	Nos.		
Add 5% wastage	20.32	Nos.		
Bricks	426.68	Nos.		
Mortar 1/6 x 140/1728 x 406/35.31	0.16	Cu.m.		
Add 25% wastage	0.04			
Mortar	0.19	Cu.m.		

c) 2" to 3" (50 mm to 75 mm) nominal cavity and 9" (230 mm) wall width on either side.

Mortar for 8 bricks 9" thick wall = 2 x 140.004	280.01	Cu.in.		
Cavity = 2 x 9-3/8"x 5/2"x 43/16"	125.98	Cu.in.		
Bricks = 8 x 105.82	846.56	Cu.in.		
	1252.54	Cu.in.	=	0.72 Cu.ft.
Bricks 8 x 35.31/0.72	389.71	Nos.		
Add 5% wastage	19.49	Nos.		
Bricks	409.19	Nos.		
Mortar 1/8 x 280.01/1728 x	0.22	Cu.m.		
Add 25% wastage	0.06			
Mortar	0.28	Cu.m.		

d) 2" to 3" (50 mm to 75 mm) nominal cavity and 4.5" (115 mm) wall width on one side and 13.5" (345 mm) wall width on the other side.

Mortar for two bricks 4.5" thick wall = 2 x 19.79	39.58	Cu.in.		
Mortar for six bricks 13.5" thick wall = 6 x 26.84	161.04	Cu.in.		
	200.62			
Cavity = 2 x 9-3/8"x 5/2"x 43/16"	125.98	Cu.in.		
Bricks = 8 x 105.82	846.56	Cu.in.		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
		1173.16		Cu.in.	0.68 Cu.ft.
Bricks	8 x 35.31/0.52	416.08		Nos.	
Add 5% wastage		20.80		Nos.	
Bricks		436.88		Nos.	
Mortar	1/8 x 200.62/1728 x	0.17		Cu.m.	
Add 25% wastage		0.04			
Mortar		0.21		Cu.m.	

Cu.m. a) 2" to 3" (50 mm to 75 mm) nominal cavity and 4.5" (115 mm) wall width on either side.

i) Cement sand 1 : 2

1. Labour

Mason	9.00	Hrs	@	125.00	1,125.00
Labourer	14.00	Hrs	@	87.50	1,225.00
Bahishti	1.25	Hrs	@	87.50	109.38
Mistri	0.50	Hrs	@	110.00	55.00
					<u>2,514.38</u>
Contractor's profit & overhead				20%	502.88
Total Labour rate					<u>3,017.25</u> 3,017.25

2. Material

Bricks	408	No.	@	10.00	4,077.97
Mortar	0.16	Cu.m.	@	8442.75	1,328.10
Water charges				1.5%	81.09
					<u>5,487.15</u>
3. Scaffolding				4%	219.49
Total of 2 & 3					<u>5,706.64</u>
Contractor's profit & overhead				20%	1,141.33
Total Composite rate					<u>9,865.22</u> 9,865.20

ii) Cement sand 1 : 3

1. Labour	Same as in item 11-30 (a)				3,017.25	3,017.25
2. Material						
Bricks	408	No.	@	10.00	4,077.97	
Mortar	0.16	Cu.m.	@	6099.30	959.46	
Water charges				1.5%	75.56	
					<u>5,112.98</u>	
3. Scaffolding				4%	204.52	
Total of 2 & 3					<u>5,317.50</u>	
Contractor's profit & overhead				20%	1,063.50	
Total Composite rate					<u>9,398.25</u> 9,398.25	

iii) Cement sand 1 : 4

1. Labour	Same as in item 11-30 (a)				3,017.25	3,017.25
2. Material						
Bricks	408	No.	@	10.00	4,077.97	
Mortar	0.16	Cu.m.	@	4839.30	761.25	
Water charges				1.5%	72.59	
					<u>4,911.81</u>	
3. Scaffolding				5%	245.59	
Total of 2 & 3					<u>5,157.40</u>	
Contractor's profit & overhead				20%	1,031.48	
Total Composite rate					<u>9,206.13</u> 9,206.15	

iv) Cement sand 1 : 5

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour	Same as in item 11-30 (a)			3,017.25	3,017.25
2. Material					
Bricks	408 No. @ 10.00	408	No. @ 10.00	4,077.97	
Mortar	0.16 Cu.m. @ 4104.30	0.16	Cu.m. @ 4104.30	645.63	
Water charges	1.5%			70.85	
				<u>4,794.45</u>	
3. Scaffolding	5%			239.72	
Total of 2 & 3				<u>5,034.17</u>	
Contractor's profit & overhead	20%			1,006.83	
Total Composite rate				<u>9,058.26</u>	9,058.25
v) Cement sand 1 : 6					
1. Labour	Same as in item 11-30 (a)			3,017.25	3,017.25
2. Material					
Bricks	408 No. @ 10.00	408	No. @ 10.00	4,077.97	
Mortar	0.16 Cu.m. @ 3579.30	0.16	Cu.m. @ 3579.30	563.05	
Water charges	1.5%			69.62	
				<u>4,710.63</u>	
3. Scaffolding	5%			235.53	
Total of 2 & 3				<u>4,946.16</u>	
Contractor's profit & overhead	20%			989.23	
Total Composite rate				<u>8,952.64</u>	8,952.65
vi) Cement sand 1 : 7					
1. Labour	Same as in item 11-30 (a)			3,017.25	3,017.25
2. Material					
Bricks	408 No. @ 10.00	408	No. @ 10.00	4,077.97	
Mortar	0.16 Cu.m. @ 3264.30	0.16	Cu.m. @ 3264.30	513.49	
Water charges	1.5%			68.87	
				<u>4,660.33</u>	
3. Scaffolding	5%			233.02	
Total of 2 & 3				<u>4,893.35</u>	
Contractor's profit & overhead	20%			978.67	
Total Composite rate				<u>8,889.27</u>	8,889.25
vii) Cement sand 1 : 8					
1. Labour	Same as in item 11-30 (a)			3,017.25	3,017.25
2. Material					
Bricks	408 No. @ 10.00	408	No. @ 10.00	4,077.97	
Mortar	0.16 Cu.m. @ 2949.30	0.16	Cu.m. @ 2949.30	463.94	
Water charges	1.5%			68.13	
				<u>4,610.04</u>	
3. Scaffolding	5%			230.50	
Total of 2 & 3				<u>4,840.54</u>	
Contractor's profit & overhead	20%			968.11	
Total Composite rate				<u>8,825.90</u>	8,825.90
b) 2" to 3" (50 mm to 75 mm) nominal cavity and 4.5" (115 mm) wall width on one side and 9" (230 mm) wall width on the other side.					
i) Cement sand 1 : 2					
1. Labour					
Mason	9.50 Hrs @ 125.00	9.50	Hrs @ 125.00	1,187.50	

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
	Labourer	15.00	Hrs	@	87.50	1,312.50	
	Bahishti	1.25	Hrs	@	87.50	109.38	
	Mistri	0.50	Hrs	@	110.00	55.00	
						<u>2,664.38</u>	
	Contractor's profit & overhead				20%	532.88	
	Total Labour rate					<u>3,197.25</u> 3,197.25	
	2. Material						
	Bricks	427	No.	@	10.00	4,266.75	
	Mortar	0.19	Cu.m.	@	8442.75	1,638.77	
	Water charges				1.5%	88.58	
						<u>5,994.11</u>	
	3. Scaffolding				5%	299.71	
	Total of 2 & 3					<u>6,293.81</u>	
	Contractor's profit & overhead				20%	1,258.76	
	Total Composite rate					<u>10,749.82</u> 10,749.80	
	ii) Cement sand 1 : 3						
	1. Labour	Same as in item 11-30 (b)					3,197.25 3,197.25
	2. Material						
	Bricks	427	No.	@	10.00	4,266.75	
	Mortar	0.19	Cu.m.	@	6099.30	1,183.90	
	Water charges				1.5%	81.76	
						<u>5,532.41</u>	
	3. Scaffolding				5%	276.62	
	Total of 2 & 3					<u>5,809.03</u>	
	Contractor's profit & overhead				20%	1,161.81	
	Total Composite rate					<u>10,168.09</u> 10,168.10	
	iii) Cement sand 1 : 4						
	1. Labour	Same as in item 11-30 (b)					3,197.25 3,197.25
	2. Material						
	Bricks	427	No.	@	10.00	4,266.75	
	Mortar	0.19	Cu.m.	@	4839.30	939.33	
	Water charges				1.5%	78.09	
						<u>5,284.17</u>	
	3. Scaffolding				4%	211.37	
	Total of 2 & 3					<u>5,495.54</u>	
	Contractor's profit & overhead				20%	1,099.11	
	Total Composite rate					<u>9,791.90</u> 9,791.90	
	iv) Cement sand 1 : 5						
	1. Labour	Same as in item 11-30 (b)					3,197.25 3,197.25
	2. Material						
	Bricks	427	No.	@	10.00	4,266.75	
	Mortar	0.19	Cu.m.	@	4104.30	796.66	
	Water charges				1.5%	75.95	
						<u>5,139.37</u>	
	3. Scaffolding				4%	205.57	
	Total of 2 & 3					<u>5,344.94</u>	
	Contractor's profit & overhead				20%	1,068.99	
	Total Composite rate					<u>9,611.18</u> 9,611.20	
	v) Cement sand 1 : 6						

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour	Same as in item 11-30 (b)			3,197.25	3,197.25
2. Material					
Bricks	427 No. @ 10.00	427	No. @ 10.00	4,266.75	
Mortar	0.19 Cu.m. @ 3579.30	0.19	Cu.m. @ 3579.30	694.75	
Water charges	1.5%			74.42	
				<u>5,035.93</u>	
3. Scaffolding	5%			251.80	
Total of 2 & 3				<u>5,287.73</u>	
Contractor's profit & overhead	20%			1,057.55	
Total Composite rate				<u>9,542.52</u>	9,542.50
vi) Cement sand 1 : 7					
1. Labour	Same as in item 11-30 (b)			3,197.25	3,197.25
2. Material					
Bricks	427 No. @ 10.00	427	No. @ 10.00	4,266.75	
Mortar	0.19 Cu.m. @ 3264.30	0.19	Cu.m. @ 3264.30	633.61	
Water charges	1.5%			73.51	
				<u>4,973.87</u>	
3. Scaffolding	5%			248.69	
Total of 2 & 3				<u>5,222.57</u>	
Contractor's profit & overhead	20%			1,044.51	
Total Composite rate				<u>9,464.33</u>	9,464.35
vii) Cement sand 1 : 8					
1. Labour	Same as in item 11-30 (b)			3,197.25	3,197.25
2. Material					
Bricks	427 No. @ 10.00	427	No. @ 10.00	4,266.75	
Mortar	0.19 Cu.m. @ 2949.30	0.19	Cu.m. @ 2949.30	572.47	
Water charges	1.5%			72.59	
				<u>4,911.81</u>	
3. Scaffolding	4%			196.47	
Total of 2 & 3				<u>5,108.29</u>	
Contractor's profit & overhead	20%			1,021.66	
Total Composite rate				<u>9,327.19</u>	9,327.20
c) 2" to 3" (50 mm to 75 mm) nominal cavity and 9" (230 mm) wall width on either side.					
i) Cement sand 1 : 2					
1. Labour					
Mason	8.25 Hrs @ 125.00	8.25	Hrs @ 125.00	1,031.25	
Labourer	13.50 Hrs @ 87.50	13.50	Hrs @ 87.50	1,181.25	
Bahishti	1.25 Hrs @ 87.50	1.25	Hrs @ 87.50	109.38	
Mistri	0.50 Hrs @ 110.00	0.50	Hrs @ 110.00	55.00	
				<u>2,376.88</u>	
Contractor's profit & overhead	20%			475.38	
Total Labour rate				<u>2,852.25</u>	2,852.25
2. Material					
Bricks	409 No. @ 10.00	409	No. @ 10.00	4,091.93	
Mortar	0.28 Cu.m. @ 8442.75	0.28	Cu.m. @ 8442.75	2,361.03	
Water charges	1.5%			96.79	
				<u>6,549.75</u>	
3. Scaffolding	4%			261.99	
Total of 2 & 3				<u>6,811.74</u>	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		20%		1,362.35
	Total Composite rate				11,026.33
					11,026.35
ii)	Cement sand 1 : 3				
	1. Labour	Same as in item 11-30 (c)			2,852.25
					2,852.25
	2. Material				
	Bricks	409	No.	@ 10.00	4,091.93
	Mortar	0.28	Cu.m.	@ 6099.30	1,705.68
	Water charges			1.5%	86.96
					5,884.57
	3. Scaffolding			4%	235.38
	Total of 2 & 3				6,119.95
	Contractor's profit & overhead			20%	1,223.99
	Total Composite rate				10,196.19
					10,196.20
iii)	Cement sand 1 : 4				
	1. Labour	Same as in item 11-30 (c)			2,852.25
					2,852.25
	2. Material				
	Bricks	409	No.	@ 10.00	4,091.93
	Mortar	0.28	Cu.m.	@ 4839.30	1,353.32
	Water charges			1.5%	81.68
					5,526.92
	3. Scaffolding			4%	221.08
	Total of 2 & 3				5,748.00
	Contractor's profit & overhead			20%	1,149.60
	Total Composite rate				9,749.85
					9,749.85
iv)	Cement sand 1 : 5				
	1. Labour	Same as in item 11-30 (c)			2,852.25
					2,852.25
	2. Material				
	Bricks	409	No.	@ 10.00	4,091.93
	Mortar	0.28	Cu.m.	@ 4104.30	1,147.77
	Water charges			1.5%	78.60
					5,318.29
	3. Scaffolding			4%	212.73
	Total of 2 & 3				5,531.03
	Contractor's profit & overhead			20%	1,106.21
	Total Composite rate				9,489.48
					9,489.50
v)	Cement sand 1 : 6				
	1. Labour	Same as in item 11-30 (c)			2,852.25
					2,852.25
	2. Material				
	Bricks	409	No.	@ 10.00	4,091.93
	Mortar	0.28	Cu.m.	@ 3579.30	1,000.96
	Water charges			1.5%	76.39
					5,169.27
	3. Scaffolding			4%	206.77
	Total of 2 & 3				5,376.05
	Contractor's profit & overhead			20%	1,075.21
	Total Composite rate				9,303.50
					9,303.50
vi)	Cement sand 1 : 7				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour	Same as in item 11-30 (c)		2,852.25		2,852.25
2. Material					
Bricks	409 No. @ 10.00		4,091.93		
Mortar	0.28 Cu.m. @ 3264.30		912.87		
Water charges	1.5%		75.07		
			<u>5,079.86</u>		
3. Scaffolding			4%	203.19	
Total of 2 & 3			<u>5,283.06</u>		
Contractor's profit & overhead			20%	1,056.61	
Total Composite rate			<u>9,191.92</u>		9,191.90
vii) Cement sand 1 : 8					
1. Labour	Same as in item 11-30 (c)		2,852.25		2,852.25
2. Material					
Bricks	409 No. @ 10.00		4,091.93		
Mortar	0.28 Cu.m. @ 2949.30		824.78		
Water charges	1.5%		73.75		
			<u>4,990.45</u>		
3. Scaffolding			4%	199.62	
Total of 2 & 3			<u>5,190.07</u>		
Contractor's profit & overhead			20%	1,038.01	
Total Composite rate			<u>9,080.33</u>		9,080.35
Cu.m. d) 2" to 3" (50mm to 75mm) nominal cavity and 4.5" (115mm) wall width on one side and 13.5" (345mm) wall width on other side.					
i) Cement sand 1 : 2					
1. Labour					
Mason	9.25 Hrs @ 125.00		1,156.25		
Labourer	14.50 Hrs @ 87.50		1,268.75		
Bahishti	1.25 Hrs @ 87.50		109.38		
Mistri	0.50 Hrs @ 110.00		55.00		
			<u>2,589.38</u>		
Contractor's profit & overhead			20%	517.88	
Total Labour rate			<u>3,107.25</u>		3,107.25
2. Material					
Bricks	437 No. @ 10.00		4,368.83		
Mortar	0.21 Cu.m. @ 8442.75		1,804.39		
Water charges	1.5%		92.60		
			<u>6,265.82</u>		
3. Scaffolding			4%	250.63	
Total of 2 & 3			<u>6,516.45</u>		
Contractor's profit & overhead			20%	1,303.29	
Total Composite rate			<u>10,926.99</u>		10,927.00
ii) Cement sand 1 : 3					
1. Labour	Same as in item 11-30 (d)		3,107.25		3,107.25
2. Material					
Bricks	437 No. @ 10.00		4,368.83		
Mortar	0.21 Cu.m. @ 6099.30		1,303.55		
Water charges	1.5%		85.09		
			<u>5,757.46</u>		
3. Scaffolding			4%	230.30	
Total of 2 & 3			<u>5,987.76</u>		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		20%		1,197.55
	Total Composite rate				10,292.56
					10,292.55
iii)	Cement sand 1 : 4				
	1. Labour	Same as in item 11-30 (d)			3,107.25
					3,107.25
	2. Material				
	Bricks	437	No.	@ 10.00	4,368.83
	Mortar	0.21	Cu.m.	@ 4839.30	1,034.26
	Water charges			1.5%	81.05
					5,484.13
	3. Scaffolding			4%	219.37
	Total of 2 & 3				5,703.50
	Contractor's profit & overhead			20%	1,140.70
	Total Composite rate				9,951.45
					9,951.45
iv)	Cement sand 1 : 5				
	1. Labour	Same as in item 11-30 (d)			3,107.25
					3,107.25
	2. Material				
	Bricks	437	No.	@ 10.00	4,368.83
	Mortar	0.21	Cu.m.	@ 4104.30	877.17
	Water charges			1.5%	78.69
					5,324.69
	3. Scaffolding			4%	212.99
	Total of 2 & 3				5,537.68
	Contractor's profit & overhead			20%	1,107.54
	Total Composite rate				9,752.46
					9,752.45
v)	Cement sand 1 : 6				
	1. Labour	Same as in item 11-30 (d)			3,107.25
					3,107.25
	2. Material				
	Bricks	437	No.	@ 10.00	4,368.83
	Mortar	0.21	Cu.m.	@ 3579.30	764.97
	Water charges			1.5%	77.01
					5,210.80
	3. Scaffolding			4%	208.43
	Total of 2 & 3				5,419.24
	Contractor's profit & overhead			20%	1,083.85
	Total Composite rate				9,610.33
					9,610.35
vi)	Cement sand 1 : 7				
	1. Labour	Same as in item 11-30 (d)			3,107.25
					3,107.25
	2. Material				
	Bricks	437	No.	@ 10.00	4,368.83
	Mortar	0.21	Cu.m.	@ 3264.30	697.65
	Water charges			1.5%	76.00
					5,142.47
	3. Scaffolding			4%	205.70
	Total of 2 & 3				5,348.17
	Contractor's profit & overhead			20%	1,069.63
	Total Composite rate				9,525.06
					9,525.05
vii)	Cement sand 1 : 8				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour	Same as in item 11-30 (d)			3,107.25	3,107.25
2. Material					
Bricks	437 No. @ 10.00	437	No. @ 10.00	4,368.83	
Mortar	0.21 Cu.m. @ 2949.30	0.21	Cu.m. @ 2949.30	630.33	
Water charges	1.5%			74.99	
				<u>5,074.14</u>	
3. Scaffolding	4%			202.97	
Total of 2 & 3				<u>5,277.11</u>	
Contractor's profit & overhead	20%			1,055.42	
Total Composite rate				<u>9,439.78</u>	9,439.80

Cu.m. e) Extra for brick masonry in cavity walls in first floor

1. Labour					
Mason	1.50	Hrs	@ 125.00	187.50	
Labourer	4.40	Hrs	@ 87.50	385.00	
Bahishti	0.25	Hrs	@ 87.50	21.88	
Mistri	0.25	Hrs	@ 110.00	27.50	
				<u>621.88</u>	
Contractor's profit & overhead			20%	124.38	
Total Labour rate				<u>746.25</u>	746.25
2. Scaffolding			4%	29.85	
Contractor's profit &			20%	5.97	
Total Composite rate				<u>782.07</u>	782.05

Cu.m. f) Extra for brick masonry in cavity walls in every additional floor above first floor

1. Labour					
Mason	1.75	Hrs	@ 125.00	218.75	
Labourer	1.75	Hrs	@ 87.50	153.13	
Bahishti	0.25	Hrs	@ 87.50	21.88	
Mistri	0.25	Hrs	@ 110.00	27.50	
				<u>421.25</u>	
Contractor's profit & overhead			20%	84.25	
Total Labour rate				<u>505.50</u>	505.50
2. Scaffolding			4%	20.22	
Contractor's profit &			20%	4.04	
Total Composite rate				<u>529.76</u>	529.75

Item No. 11-31

Providing and laying first class hollow burnt brick masonry (Brick Strength:1800psi-2000psi) in walls including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing

Brick mortar calculations

Upto 4.5" (115 mm) nominal thick brick work

Vertical and horizontal joint = 1/4"

Av. bricks for 3" & 4.5" thick wall = (531+ 518)/2	524.50	Nos.
Wastage @ 7.5%	39.34	Nos.
	<u>563.84</u>	Nos.

Av. mortar for 3" & 4.5" thick wall = (0.08+ 0.102)/2	0.09	Cu.m.
Wastage @ 7.5%	0.01	Cu.m.
	<u>0.10</u>	Cu.m.

Above 4.5" nominal thick brickwork

9" thick wall

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Mortar:					
Vertical	2 x 1/2 x 9 x 43/16 x 1/4	6.05	Cu.in.		
Horizontal	2 x 1/2 x 9 x 37/8 x 1/4	10.41	Cu.in.		
		16.45	Cu.in.		
Brick		105.82	Cu.in.		
		122.27	Cu.in.	=	0.07 Cu.ft.
Bricks	35.31/0.07	499.01	Nos.		
Wastage @ 7.5%		37.43	Nos.		
		536.44	Nos.		
Bricks	(16.45 x 499)/1728/35.31	0.13	Cu.m.		
Wastage @10%		0.01	Cu.m.		
		0.15	Cu.m.		
13.5" thick wall					
Mortar:					
Same as solid brick		105.82	Cu.in.		
Deduct Opening					
Header	4x1/2x3-3/8x1-3/4x1/4	5.44	Cu.in.		
Stretcher	4x1/2x3-3/4x1-3/4x1/4	5.06	Cu.in.		
Net for six bricks		99.11	Cu.in.		
For one brick		16.52	Cu.in.		
Volume of one brick		105.82	Cu.in.		
		122.34	Cu.in.	=	0.07 Cu.ft.
Bricks	35.31/0.07	504.43	Nos.		
Wastage @ 7.5%		37.83	Nos.		
		542.26	Nos.		
Bricks	(16.518 x 499)/1728/35.31	0.14	Cu.m.		
Wastage @10%		0.01	Cu.m.		
		0.15	Cu.m.		
Average for 9" and 13.5" thick wall including wastage					
Bricks	(536 + 542)/2	539.35	0.00		
Mortar	(0.148 + 0.149)/2	0.15	Cu.m.		
Cu.m. a) Upto 4.5" (115 mm) nominal thick brick work					
i) Cement sand 1 : 2					
1. Labour					
Mason	14.00	Hrs	@	125.00	1,750.00
Labourer	18.00	Hrs	@	87.50	1,575.00
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.35	Hrs	@	110.00	38.50
					<u>3,494.75</u>
Contractor's profit & overhead				20%	698.95
Total Labour rate					<u>4,193.70</u> 2,514.96
2. Material					
Bricks	564	No.	@	10.00	5,638.38
Mortar	0.10	Cu.m.	@	8442.75	825.91
Water charges				1.5%	96.96
					<u>6,561.25</u>
3. Scaffolding				3%	164.03
Total of 2 & 3					<u>6,725.28</u>
Contractor's profit & overhead				20%	1,345.06
Total Composite rate					<u>12,264.04</u> 12,264.05
ii) Cement sand 1 : 3					
1. Labour	Same as in item 11-31 (a)				2,514.96 2,514.95
2. Material					
Bricks	564	No.	@	10.00	5,638.38
Mortar	0.10	Cu.m.	@	6099.30	596.66

Unit	Description	Component Cost			Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)	
	Water charges	1.5%	93.53			
			6,328.56			
	3. Scaffolding	3%	158.21			
	Total of 2 & 3		6,486.78			
	Contractor's profit & overhead	20%	1,297.36			
	Total Composite rate		10,299.10		10,299.10	
iii) Cement sand 1 : 4						
	1. Labour	Same as in item 11-31 (a)	2,514.96		2,514.95	
	2. Material					
	Bricks	564 No.	@ 10.00	5,638.38		
	Mortar	0.10 Cu.m.	@ 4839.30	473.40		
	Water charges		1.5%	91.68		
				6,203.46		
	3. Scaffolding		3%	155.09		
	Total of 2 & 3			6,358.54		
	Contractor's profit & overhead		20%	1,271.71		
	Total Composite rate			10,145.21	10,145.20	
iv) Cement sand 1 : 5						
	1. Labour	Same as in item 11-31 (a)	2,514.96		2,514.95	
	2. Material					
	Bricks	564 No.	@ 10.00	5,638.38		
	Mortar	0.10 Cu.m.	@ 4104.30	401.50		
	Water charges		1.5%	90.60		
				6,130.48		
	3. Scaffolding		0.03	153.26		
	Total of 2 & 3			6,283.74		
	Contractor's profit & overhead		20%	1,256.75		
	Total Composite rate			10,055.45	10,055.45	
Cu.m. v) Cement sand 1 : 6						
	1. Labour	Same as in item 11-31 (a)	2,514.96		2,514.95	
	2. Material					
	Bricks	564 No.	@ 10.00	5,638.38		
	Mortar	0.10 Cu.m.	@ 3579.30	350.15		
	Water charges		1.5%	89.83		
				6,078.35		
	3. Scaffolding		3%	151.96		
	Total of 2 & 3			6,230.31		
	Contractor's profit & overhead		20%	1,246.06		
	Total Composite rate			9,991.33	9,991.35	
vi) Cement sand 1 : 7						
	1. Labour	Same as in item 11-31 (a)	2,514.96		2,514.95	
	2. Material					
	Bricks	564 No.	@ 10.00	5,638.38		
	Mortar	0.10 Cu.m.	@ 3264.30	319.33		
	Water charges		1.5%	89.37		
				6,047.07		
	3. Scaffolding		3%	151.18		
	Total of 2 & 3			6,198.25		
	Contractor's profit & overhead		20%	1,239.65		
	Total Composite rate			9,952.86	9,952.85	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
vii) Cement sand 1 : 8					
1. Labour	Same as in item 11-31 (a)			2,514.96	2,514.95
2. Material					
Bricks	564 No.	@	10.00	5,638.38	
Mortar	0.10 Cu.m.	@	2949.30	288.52	
Water charges			1.5%	88.90	
				<u>6,015.79</u>	
3. Scaffolding			3%	150.39	
Total of 2 & 3				<u>6,166.19</u>	
Contractor's profit & overhead			20%	1,233.24	
Total Composite rate				<u>9,914.39</u>	9,914.40
Cu.m. b) Above 4.5" (115mm) nominal thick brickwork					
i) Cement sand 1 : 2					
1. Labour					
Mason	11.50 Hrs	@	125.00	1,437.50	
Labourer	15.50 Hrs	@	87.50	1,356.25	
Bahishti	1.50 Hrs	@	87.50	131.25	
Mistri	0.35 Hrs	@	110.00	38.50	
				<u>2,963.50</u>	
Contractor's profit & overhead			20%	592.70	
Total Labour rate				<u>3,556.20</u>	2,362.14
2. Material					
Bricks	539 No.	@	10.00	5,390.00	
Mortar	0.15 Cu.m.	@	8442.75	1,253.75	
Water charges			1.5%	99.66	
				<u>6,743.40</u>	
3. Scaffolding			3%	168.59	
Total of 2 & 3				<u>6,911.99</u>	
Contractor's profit & overhead			20%	1,382.40	
Total Composite rate				<u>11,850.59</u>	11,850.60
ii) Cement sand 1 : 3					
1. Labour	Same as in item 11-31 (b)			2,362.14	2,362.15
2. Material					
Bricks	539 No.	@	10.00	5,390.00	
Mortar	0.15 Cu.m.	@	6099.30	905.75	
Water charges			1.5%	94.44	
				<u>6,390.18</u>	
3. Scaffolding			3%	159.75	
Total of 2 & 3				<u>6,549.94</u>	
Contractor's profit & overhead			20%	1,309.99	
Total Composite rate				<u>10,222.06</u>	10,222.05
iii) Cement sand 1 : 4					
1. Labour	Same as in item 11-31 (b)			2,362.14	2,362.15
2. Material					
Bricks	539 No.	@	10.00	5,390.00	
Mortar	0.15 Cu.m.	@	4839.30	718.64	
Water charges			1.5%	91.63	
				<u>6,200.27</u>	
3. Scaffolding			3%	155.01	
Total of 2 & 3				<u>6,355.27</u>	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	1,271.05		
	Total Composite rate		9,988.47		9,988.45
iv)	Cement sand 1 : 5				
	1. Labour	Same as in item 11-31 (b)	2,362.14		2,362.15
	2. Material				
	Bricks	539 No.	@ 10.00	5,390.00	
	Mortar	0.15 Cu.m.	@ 4104.30	609.49	
	Water charges		1.5%	89.99	
				6,089.48	
	3. Scaffolding		3%	152.24	
	Total of 2 & 3			6,241.72	
	Contractor's profit & overhead	20%	1,248.34		
	Total Composite rate		9,852.20		9,852.20
Cu.m.	v) Cement sand 1 : 6				
	1. Labour	Same as in item 11-31 (b)	2,362.14		2,362.15
	2. Material				
	Bricks	539 No.	@ 10.00	5,390.00	
	Mortar	0.15 Cu.m.	@ 3579.30	531.53	
	Water charges		1.5%	88.82	
				6,010.35	
	3. Scaffolding		3%	150.26	
	Total of 2 & 3			6,160.61	
	Contractor's profit & overhead	20%	1,232.12		
	Total Composite rate		9,754.87		9,754.85
	vi) Cement sand 1 : 7				
	1. Labour	Same as in item 11-31 (b)	2,362.14		2,362.15
	2. Material				
	Bricks	539 No.	@ 10.00	5,390.00	
	Mortar	0.15 Cu.m.	@ 3264.30	484.75	
	Water charges		1.5%	88.12	
				5,962.87	
	3. Scaffolding		3%	149.07	
	Total of 2 & 3			6,111.94	
	Contractor's profit & overhead	20%	1,222.39		
	Total Composite rate		9,696.47		9,696.45
	vii) Cement sand 1 : 8				
	1. Labour	Same as in item 11-31 (b)	2,362.14		2,362.15
	2. Material				
	Bricks	539 No.	@ 10.00	5,390.00	
	Mortar	0.15 Cu.m.	@ 2949.30	437.97	
	Water charges		1.5%	87.42	
				5,915.39	
	3. Scaffolding		3%	147.88	
	Total of 2 & 3			6,063.28	
	Contractor's profit & overhead	20%	1,212.66		
	Total Composite rate		9,638.07		9,638.05

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11-32

Providing and laying first class perforated brick masonry in walls including scaffolding, raking out joints and curing in ground floor superstructure.

Cu.m. a) Upto 4.5" (115 mm) nominal thick brick work

Vertical and horizontal joint = 3/8"

Av. bricks for 3" & 4.5" thick wall = (510+ 486)/2

Wastage @ 6.5%

498.00 Nos.

32.37 Nos.

530.37 Nos.

Av. mortar for 3" & 4.5" thick wall = (0.116+ 0.158)/2

0.14 Cu.m.

Wastage @ 10%

0.01 Cu.m.

0.15 Cu.m.

i) Cement sand 1 : 2

1. Labour

Mason 11.00 Hrs @ 125.00 1,375.00

Labourer 15.00 Hrs @ 87.50 1,312.50

Bahishti 1.50 Hrs @ 87.50 131.25

Mistri 0.35 Hrs @ 110.00 38.50

2,857.25

Contractor's profit & overhead 20% 571.45

Total Labour rate 3,428.70 **2,881.26**

2. Material

Bricks 530 No. @ 10.00 5,303.70

Mortar 0.15 Cu.m. @ 8442.75 1,272.32

Water charges 1.5% 98.64

6,674.66

3. Scaffolding 3% 166.87

Total of 2 & 3 6,841.53

Contractor's profit & overhead 20% 1,368.31

Total Composite rate 11,638.54 **11,638.55**

ii) Cement sand 1 : 3

1. Labour Same as in item 11-32 (a) 2,881.26 **2,881.25**

2. Material

Bricks 530 No. @ 10.00 5,303.70

Mortar 0.15 Cu.m. @ 6099.30 919.16

Water charges 1.5% 93.34

6,316.21

3. Scaffolding 3% 157.91

Total of 2 & 3 6,474.11

Contractor's profit & overhead 20% 1,294.82

Total Composite rate 10,650.20 **10,650.20**

iii) Cement sand 1 : 4

1. Labour Same as in item 11-32 (a) 2,881.26 **2,881.25**

2. Material

Bricks 530 No. @ 10.00 5,303.70

Mortar 0.15 Cu.m. @ 4839.30 729.28

Water charges 1.5% 90.49

6,123.48

3. Scaffolding 3% 153.09

Total of 2 & 3 6,276.56

Contractor's profit & overhead 20% 1,255.31

Total Composite rate 10,413.14 **10,413.15**

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
iv) Cement sand 1 : 5					
1. Labour	Same as in item 11-32 (a)			2,881.26	2,881.25
2. Material					
Bricks	530 No.	@	10.00	5,303.70	
Mortar	0.15 Cu.m.	@	4104.30	618.52	
Water charges			1.5%	88.83	
				<u>6,011.05</u>	
3. Scaffolding			3%	150.28	
Total of 2 & 3				<u>6,161.33</u>	
Contractor's profit & overhead			20%	1,232.27	
Total Composite rate				<u>10,274.85</u>	10,274.85
v) Cement sand 1 : 6					
1. Labour	Same as in item 11-32 (a)			2,881.26	2,881.25
2. Material					
Bricks	530 No.	@	10.00	5,303.70	
Mortar	0.15 Cu.m.	@	3579.30	539.40	
Water charges			1.5%	87.65	
				<u>5,930.75</u>	
3. Scaffolding			3%	148.27	
Total of 2 & 3				<u>6,079.02</u>	
Contractor's profit & overhead			20%	1,215.80	
Total Composite rate				<u>10,176.08</u>	10,176.10
vi) Cement sand 1 : 7					
1. Labour	Same as in item 11-32 (a)			2,881.26	2,881.25
2. Material					
Bricks	530 No.	@	10.00	5,303.70	
Mortar	0.15 Cu.m.	@	3264.30	491.93	
Water charges			1.5%	86.93	
				<u>5,882.56</u>	
3. Scaffolding			3%	147.06	
Total of 2 & 3				<u>6,029.63</u>	
Contractor's profit &			0.20	1,205.93	
Total Composite rate				<u>10,116.81</u>	10,116.80
vii) Cement sand 1 : 8					
1. Labour	Same as in item 11-32 (a)			2,881.26	2,881.25
2. Material					
Bricks	530 No.	@	10.00	5,303.70	
Mortar	0.15 Cu.m.	@	2949.30	444.46	
Water charges			1.5%	86.22	
				<u>5,834.38</u>	
3. Scaffolding			3%	145.86	
Total of 2 & 3				<u>5,980.24</u>	
Contractor's profit & overhead			20%	1,196.05	
Total Composite rate				<u>10,057.55</u>	10,057.55
Cu.m. b) Above 4.5" (115mm) nominal thick brickwork					
Vertical and horizontal joint = 1/4"					
Av. bricks for 9" & 13.5" thick wall = (466+ 460)/2					
	463.00	Nos.			
Wastage @ 6.5%					
	30.10	Nos.			
	493.10	Nos.			

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Av. mortar for 9" & 13.5" thick wall = (0.192+ 0.202)/2	0.20		Cu.m.	
	Wastage @ 10%	0.02		Cu.m.	
		0.22		Cu.m.	
i) Cement sand 1 : 2					
1. Labour					
	Mason	9.50	Hrs	@	125.00
	Labourer	13.50	Hrs	@	87.50
	Bahishti	1.50	Hrs	@	87.50
	Mistri	0.35	Hrs	@	110.00
					38.50
					2,538.50
	Contractor's profit & overhead			20%	507.70
	Total Labour rate				3,046.20
					2,707.73
2. Material					
	Bricks	493	No.	@	10.00
	Mortar	0.22	Cu.m.	@	8443
	Water charges			1.5%	101.39
					6,860.94
	3. Scaffolding			3%	171.52
	Total of 2 & 3				7,032.46
	Contractor's profit & overhead			20%	1,406.49
	Total Composite rate				11,485.15
					11,485.15
ii) Cement sand 1 : 3					
	1. Labour	Same as in item 11-32 (b)			2,707.73
					2,707.73
2. Material					
	Bricks	493	No.	@	10.00
	Mortar	0.22	Cu.m.	@	6099.30
	Water charges			1.5%	93.78
					6,345.49
	3. Scaffolding			3%	158.64
	Total of 2 & 3				6,504.13
	Contractor's profit & overhead			20%	1,300.83
	Total Composite rate				10,512.69
					10,512.70
iii) Cement sand 1 : 4					
	1. Labour	Same as in item 11-32 (b)			2,707.73
					2,707.73
2. Material					
	Bricks	493	No.	@	10.00
	Mortar	0.22	Cu.m.	@	4839.30
	Water charges			1.5%	89.68
					6,068.36
	3. Scaffolding			3%	151.71
	Total of 2 & 3				6,220.07
	Contractor's profit & overhead			20%	1,244.01
	Total Composite rate				10,171.81
					10,171.80
iv) Cement sand 1 : 5					
	1. Labour	Same as in item 11-32 (b)			2,707.73
					2,707.73
2. Material					
	Bricks	493	No.	@	10.00
	Mortar	0.22	Cu.m.	@	4104.30
	Water charges			1.5%	87.29
					5,906.69

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	3. Scaffolding		3%		147.67
	Total of 2 & 3				6,054.36
	Contractor's profit & overhead		20%		1,210.87
	Total Composite rate				9,972.97
					9,972.95
	v) Cement sand 1 : 6				
	1. Labour	Same as in item 11-32 (b)			2,707.73
					2,707.75
	2. Material				
	Bricks	493 No.	@	10.00	4,930.00
	Mortar	0.22 Cu.m.	@	3579.30	775.63
	Water charges			1.5%	85.58
					5,791.22
	3. Scaffolding			3%	144.78
	Total of 2 & 3				5,936.00
	Contractor's profit & overhead		20%		1,187.20
	Total Composite rate				9,830.93
					9,830.95
	vi) Cement sand 1 : 7				
	1. Labour	Same as in item 11-32 (b)			2,707.73
					2,707.75
	2. Material				
	Bricks	493 No.	@	10.00	4,930.00
	Mortar	0.22 Cu.m.	@	3264.30	707.37
	Water charges			1.5%	84.56
					5,721.93
	3. Scaffolding			3%	143.05
	Total of 2 & 3				5,864.98
	Contractor's profit & overhead		20%		1,173.00
	Total Composite rate				9,745.71
					9,745.70
	vii) Cement sand 1 : 8				
	1. Labour	Same as in item 11-32 (b)			2,707.73
					2,707.75
	2. Material				
	Bricks	493 No.	@	10.00	4,930.00
	Mortar	0.22 Cu.m.	@	2949.30	639.11
	Water charges			1.5%	83.54
					5,652.65
	3. Scaffolding			3%	141.32
	Total of 2 & 3				5,793.97
	Contractor's profit & overhead		20%		1,158.79
	Total Composite rate				9,660.49
					9,660.50
	Item No. 11-33				
Cu.m.	a) Extra for hollow and perforated brick masonry in first floor				
	Total Labour rate	Same as per item 11-26(a)			654.90
					654.90
	Total Composite rate	Same as per item 11-26(a)			674.55
					674.55
Cu.m.	b) Extra for hollow and perforated brick masonry in every additional floor over first floor.				
	Total Labour rate	Same as per item 11-26(b)			419.25
					419.25
	Total Composite rate	Same as per item 11-26(b)			431.85
					431.85

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11-34-1

Kg. **Providing and laying fabric steel reinforcement 1" (25 mm) wire mesh weighing not less than 2 kg/sq.m. including cutting to required shape and size, overlaps, wastage etc. the reinforcement shall be embedded in every third horizontal course in basement, plinth and ground floor.**

For 50 Kg

1. Labour

Black smith	3.50	Hrs	@	112.00	392.00
Mason	2.00	Hrs	@	125.00	250.00
Labourer	3.00	Hrs	@	87.50	262.50
Bahishti	1.00	Hrs	@	87.50	87.50

992.00

Contractor's profit & overhead

20%

198.40

Total Labour rate

23.81

23.80

2. Material

Wire mesh 5% wastage included 52.50 Kg. @ 110.00 5,775.00

3. Sundries 1% 57.75

Total of 2 & 3 5,832.75

Contractor's profit & overhead 20% 1,166.55

Total Composite rate 163.79

163.80**Item No. 11-35-1**

Tonne **Providing and laying mild steel reinforcement bars in brick work including straightening, removing rust, cutting, bending, wastage, overlaps, placing in position, tying with binding wire (cost of binding wire included) in basement, plinth and ground floor.**

1/4" dia bars for 4.5" thick masonry wall and 1/2" dia. for 9" and above wall thickness. Reinforcement shall be placed at every third course 2.5" apart at the centre of wall, both for header and stretcher courses. Ties will be fixed at 18" apart in stretcher courses and at 15" apart in header courses.

1. Labour

Mason	5.00	Hrs	@	125.00	625.00
Steel fitter	7.50	Hrs	@	125.00	937.50
Steel fixer	15.00	Hrs	@	125.00	1,875.00
Steel helper	20.00	Hrs	@	87.50	1,750.00
Steel labour mate	3.00	Hrs	@	87.50	262.50
Labourer	34.00	Hrs	@	87.50	2,975.00

Total 8,425.00

Contractor's profit & overhead 20% 1,685.00

Total Labour rate 10,110.00

10,110.00

2. Material

Mild steel bars (G-40) including 7% wastage + overlaps 1.07 Tonne @ 88000 94,160.00

Binding wire 7.00 Kg. @ 90.00 630.00

94,790.00

3. Sundries 1% 1,032.15

Total of 2 & 3 95,822.15

Contractor's profit & overhead 20% 19,164.43

Total Composite rate 125,096.58

125,096.60**Item No. 11-36-1**

Kg. **Providing and laying hoop iron reinforcement in brick work including straightening, cutting, punching, overlaps, wastage and placing in position including anti-corrosive bitumastic paint two coats in basement, plinth and ground floor.**

For 50 Kg

Hoop iron 18 SWG or equivalent (1"x1/16") weighing 0.1617 lbs / R.ft. at one row per 4.5" thick wall is specified. Hoop iron reinforcement will be placed at

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	every third course.				
	1. Labour				
	Black smith	2.50	Hrs	@	112.00
	Mason	0.50	Hrs	@	125.00
	Labourer	3.00	Hrs	@	87.50
	Mistri	1.00	Hrs	@	110.00
	Painter	5.00	Hrs	@	125.00
	Total				1,340.00
	Contractor's profit & overhead			20%	268.00
	Total Labour rate				32.16
	2. Material				
	Anti-corrosive paint				
	Surface area for one kg	1.14	Sq.ft.		
	For 50 kg.	1.14 x 50	Sq.ft.	=	5.30
	Paint =	5.3 x 0.16 litre/Sq.m.	Litre		
	M.S. section	5% wastage included	Kg.	@	80.00
	Paint - Anti corrosive	0.85	Litre	@	175.00
					148.75
					4,348.75
	3. Sundries			1%	56.89
	Total of 2 & 3				4,405.64
	Contractor's profit & overhead			20%	881.13
	Total Composite rate				137.90

Item No. 11-37-1

kg. Flat iron wall ties size 8" x 3/4" x 1/4" (200 mm x 20 mm x 5 mm) weighing 39.25 kg per sq.m or 200 mm x 20 mm x 4 mm weighing 31.4 kg./ Sq.m.

	1. Labour				
	Black smith	1.50	Hrs	@	112.00
	Mason	4.00	Hrs	@	125.00
	Labourer	3.00	Hrs	@	87.50
	Mistri	1.00	Hrs	@	110.00
	Painter	4.00	Hrs	@	125.00
	Total				1,540.50
	Contractor's profit & overhead			20%	308.10
	Total Labour rate				36.97
	2. Material				
	Anti-corrosive paint				
	Surface area	39.25 Kg. =	1.00	Sq.m	
	For 50 kg.	2 x 50/39.25	2.55	Sq.m	
	Paint =	2.55 x 0.16 litre/Sq.m.	0.41	Litre	
	M.S. section	5% wastage included	52.50	Kg.	@
	Paint - Anti corrosive	0.41	Litre	@	175.00
					71.40
					4,271.40
	3. Sundries			1%	58.12
	Total of 2 & 3				4,329.52
	Contractor's profit & overhead			20%	865.90
	Total Composite rate				140.88

Item No. 11-38-1

Tonne Providing and placing mild steel reinforcement bars in steining of brick work in wells. Vertical bars are to be placed in two staggered rows and at 10" (250mm) centered in each row including straightening, removing of rust, cutting, bending, binding, wastage, overlaps, placing in position and tying with binding wire upto 5ft. (1.5m) depth or part thereof.

	1. Labour				
	Black smith	4.50	Hrs	@	112.00
	Mason	2.25	Hrs	@	125.00
					504.00
					281.25

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
	Labourer	6.50	Hrs	@	87.50	568.75	
	Mistri	1.00	Hrs	@	110.00	110.00	
	Total					1,464.00	
	Contractor's profit & overhead				20%	292.80	
	Total Labour rate					1,756.80	1,756.80
	2. Material						
	Mild steel bars(G-40)	7% wast.+overlaps	1.07	Tonne	@	88000	94,160.00
	Binding wire		7.00	Kg.	@	90.00	630.00
							94,790.00
	3. Sundries						
	Total of 2 & 3				1%	962.54	95,752.54
	Contractor's profit & overhead				20%	19,150.51	116,659.85
	Total Composite rate						116,659.85

Item No. 11-39-1

kg. **Providing and placing hoop iron in steining of brick work in wells including cutting, straightening, bending, wastage, overlaps and placing in position upto 5 ft.(1.5 m) depth or part thereof.**

1. Labour							
	Black smith	2.50	Hrs	@	112.00	280.00	
	Mason	1.00	Hrs	@	125.00	125.00	
	Labourer	3.50	Hrs	@	87.50	306.25	
	Mistri	1.50	Hrs	@	110.00	165.00	
	Painter	5.00	Hrs	@	125.00	625.00	
	Total					1,501.25	
	Contractor's profit & overhead				20%	300.25	36.03
	Total Labour rate						36.05
	2. Material Same as in item 11-36						
						4,348.75	
	3. Sundries						
	Total of 2 & 3				1%	58.50	4,407.25
	Contractor's profit & overhead				20%	881.45	141.80
	Total Composite rate						141.80

Item No. 11-40

kg. a) **Extra for mild steel bars or hoop iron reinforcement in first floor.**

1. Labour							
	Black smith	0.75	Hrs	@	112.00	84.00	
	Labourer	1.75	Hrs	@	87.50	153.13	
	Total					237.13	
	Contractor's profit & overhead				20%	47.43	5.69
	Total Labour rate						5.70
	2. Scaffolding						
					5%	11.86	
	3. Sundries						
	Total of 2 & 3				3%	5.93	17.78
	Contractor's profit & overhead				20%	3.56	6.12
	Total Composite rate						6.10

kg. b) **Extra for mild steel bars or hoop iron reinforcement in additional floor above first floor.**

1. Labour							
	Black smith	0.75	Hrs	@	112.00	84.00	
	Labourer	0.75	Hrs	@	87.50	65.63	
	Total					149.63	
	Contractor's profit & overhead				20%	29.93	

Unit	Description		Component Cost	Unit	Rate
			(Rs)	(Rs)	
	Total Labour rate		3.59		3.60
	2. Scaffolding	5%	7.48		
	3. Sundries	3%	3.74		
	Total of 2 & 3		11.22		
	Contractor's profit & overhead	20%	2.24		
	Total Composite rate		3.86		3.85

Item No. 11-41-1

Kg. **Extra for mild steel or hoop iron reinforcement in steining of brickwork in wells for every additional 5 ft (1.5m) depth or part thereof beyond 5ft (1.5m) depth.**

1. Labour					
Same as item 11-40(a)			237.13		
Add Extra		10%	23.71		
Total			260.84		
Contractor's profit & overhead		20%	52.17		
Total Labour rate			6.26		6.25
2. Scaffolding		5%	13.04		
3. Sundries		3%	6.52		
Total of 2 & 3			19.56		
Contractor's profit & overhead		20%	3.91		
Total Composite rate			6.73		6.75

Item No. 11-42

Providing and laying fire brick lining in walls for fire places laid in mortar of high alumina cement and fine aggregate of crushed fire brick 1:2 including scaffolding in basement, plinth and ground floor superstructures.

Cu.m. a) **4.5" (115 mm) nominal thick fire brick lining in walls of fire places.**

Taking 1/4" vertical and horizontal joints:

Mortar

Horizontal 2 x 1/2 x 9-1/4 x 37/8 x 1/4 10.70 Cu.in.

Vertical 1/2 x 27-1/4 x 1/4 x 43/16 9.15 Cu.in.

19.85 Cu.in.

Brick volume 105.82 Cu.in.

125.67 Cu.in.

= 0.07 Cu.ft.

Nos. of bricks 35.31/.073 485.53 Nos.

Wastage 0.10 48.55 Nos.

534.08 Nos.

Mortar (19.849/1728) x 486 0.16 Cu.m.

Wastage 0.10 0.02 Cu.m.

0.17 Cu.m.

1. Labour

Mason 17.00 Hrs @ 125.00 2,125.00

Labourer 17.00 Hrs @ 87.50 1,487.50

Bahishti 1.50 Hrs @ 87.50 131.25

Mistri 0.35 Hrs @ 110.00 38.50

3,782.25

Contractor's profit & overhead 20% 756.45

Total Labour rate 4,538.70 **4,538.70**

2. Material

Bricks 534.08 No. @ 10.00 5,340.80

High alumina mortar 1:2 & 0.17 Cu.m. @ 8442.75 1,467.35

Water Charges 2% 102.12

6,910.27

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	3. Scaffolding			3%	170.20	
	Total of 2 & 3				7,080.47	
	Contractor's profit & overhead			20%	1,416.09	
	Total Composite rate				13,035.27	13,035.25

Cu.m. b) **9" (230 mm) nominal thick fire brick lining in walls of fire places.**

Mortar:

First layer horizontal 2x1/2 x9-1/4x9x1/4 20.81 Cu.in.

2nd layer horizontal 2x1/2 x9-1/4x9x1/4 20.81 Cu.in.

Vertical 1/2x109x1/4x43/16 36.62 Cu.in.

For 4 bricks 78.24 Cu.in.

For one brick 19.56 Cu.in.

Brick volume 105.82 Cu.in.

125.38 Cu.in. = 0.07 Cu.ft.

No. of bricks 35.31 / 0.073 = 483.70 Nos.

Wastage 0.10 48.37 Nos.

532.07 Nos.

Mortar 19.561/1728 x 484/35.31 0.16 Cu.m.

Wastage 0.10 0.02 Cu.m.

0.17 Cu.m.

1. Labour

Mason 14.50 Hrs @ 125.00 1,812.50

Labourer 14.50 Hrs @ 87.50 1,268.75

Bahishti 1.50 Hrs @ 87.50 131.25

Mistri 0.35 Hrs @ 110.00 38.50

3,251.00

Contractor's profit & overhead 20% 650.20

Total Labour rate 3,901.20 **3,901.20**

2. Material

Bricks 329.30 No. @ 10.00 3,293.00

High alumina mortar 1:2 & 0.17 Cu.m. @ 8442.75 1,441.03

Water Charges 2% 71.01

4,805.04

3. Scaffolding 3% 118.35

Total of 2 & 3 4,923.39

Contractor's profit & overhead 20% 984.68

Total Composite rate 9,809.26 **9,809.25****Item No. 11-43**

Providing and laying fire brick lining in arches for fire places laid in mortar of high alumina cement and fine aggregate of crushed fire brick 1:2 including scaffolding in basement, plinth and ground floor superstructures.

Cu.m. a) **4.5" (115 mm) nominal thick fire brick lining in arches of fire places.**

Wastage of material taken @ 15% on item 11-42(a)

Bricks 558.36 Nos.

Mortar 0.18 Cu.m.

1. Labour

Mason 18.00 Hrs @ 125.00 2,250.00

Labourer 21.00 Hrs @ 87.50 1,837.50

Bahishti 1.50 Hrs @ 87.50 131.25

Mistri 0.50 Hrs @ 110.00 55.00

4,273.75

Contractor's profit & overhead 20% 854.75

Total Labour rate 5,128.50 **5,128.50**

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
2. Material					
Bricks	558.36 No.	@	10.00	5,583.56	
High alumina mortar 1:2 &	0.18 Cu.m.	@	8442.75	1,534.05	
Water Charges			1.5%	106.76	
				<u>7,224.37</u>	
3. Scaffolding					
			2.5%	177.94	
4. Formwork					
Taking an arch lining 4.5" (115 mm) thick over 3 ft (1 m) span and central angle 60 degrees, the height of arch and its span is less than that given in item 11-4 so the cost is estimated as 50% of item 11-4(a)					
				2,013.80	
Total of 2, 3 & 4				9,416.11	
Contractor's profit & overhead				20%	1,883.22
Total Composite rate				<u>16,427.84</u>	16,427.85

Cu.m. b) **9" (230 mm) nominal thick fire brick lining in arches of fire places.**

Wastage of material taken @ 15% on item 11-42(b)

Bricks 556.25 Nos.
Mortar 0.20 Cu.m.

1. Labour

Mason 15.50 Hrs @ 125.00 1,937.50
Labourer 18.50 Hrs @ 87.50 1,618.75
Bahishti 1.50 Hrs @ 87.50 131.25
Mistri 0.50 Hrs @ 110.00 55.00

3,742.50

Contractor's profit & overhead

20% 748.50

Total Labour rate

4,491.00 **4,491.00**

2. Material

Bricks 556.25 No. @ 10.00 5,562.53
High alumina mortar 1:2 & 0.20 Cu.m. @ 8442.75 1,657.18
Water Charges 1.5% 108.30

7,328.01

3. Scaffolding

2.5% 180.49

4. Formwork

Same as in item 11-43(a)

2,013.80

Total of 2, 3 & 4

9,522.30

Contractor's profit & overhead

20% 1,904.46

Total Composite rate

15,917.77 **15,917.75****Item No. 11-44****Providing and laying fire brick lining in walls for fire places laid in vitrified fire clay mortar including scaffolding in basement, plinth and ground floor.**Cu.m. a) **4.5" thick (115mm) nominal thick fire brick lining in walls of fire lining**1. Labour Same as in item 11-42(a) 4,538.70 **4,538.70**

2. Material

Bricks Same as in item 11-42(a) 534.08 No. @ 10.00 5,340.80
Vitrified mortar 0.174x35.31/1.33) x 234.68 Kg @ 8.00 1,877.44
Water Charges 234.00 1.5% 108.27

7,326.51

3. Scaffolding

2.5% 296.63

Total of 2 & 3

7,623.14

Contractor's profit & overhead

20% 1,524.63

Total Composite rate

13,686.46 **13,686.45**Cu.m. b) **9" thick (230 mm) nominal thick fire brick lining in walls of fire lining**

1. Labour

Same as in item 11-42(b) 3,901.20 **3,901.20**

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
2. Material							
Bricks	Same as in item 11-42(a)	534.08	No.	@	10.00	5,340.80	
Vitrified mortar	(0.172x35.31/1.33) x	231.98	Kg	@	8.00	1,855.84	
Water Charges					1.5%	107.96	
						7,304.59	
3. Scaffolding					2.5%	280.14	
Total of 2 & 3						7,584.74	
Contractor's profit & overhead					20%	1,516.95	
Total Composite rate						13,002.88	13,002.90

Item No. 11-45

Providing and laying fire brick lining in arches for fire places with vitrified fire clay mortar including scaffolding, formwork and its removal in basement, plinth & ground floor.

Cu.m. a) 4.5" (115 mm) nominal thick fire brick lining in arches of fire places.

1. Labour	Same as in item 11-43(a)					5,128.50	5,128.50
2. Material							
Bricks	Same as in item 11-43(a)	558.36	No.	@	10.00	5,583.56	
Vitrified mortar	(0.182x35.31/1.33) x	245.54	Kg	@	8.00	1,964.33	
Water Charges					1.5%	113.22	
						7,661.11	
3. Scaffolding					2.5%	319.74	
Total of 2 & 3						7,980.85	
Contractor's profit & overhead					20%	1,596.17	
Total Composite rate						14,705.52	14,705.50

b) 9" thick (230 mm) nominal thick fire brick lining in walls of fire lining

1. Labour	Same as in item 11-43(a)					4,491.00	4,491.00
2. Material							
Bricks	Same as in item 11-43(b)	556.25	No.	@	10.00	5,562.53	
Vitrified mortar	(0.179x35.31/1.33) x	241.49	Kg	@	8.00	1,931.95	
Water Charges					1.5%	112.41	
						7,606.89	
3. Scaffolding					2.5%	302.45	
Total of 2 & 3						7,909.34	
Contractor's profit & overhead					20%	1,581.87	
Total Composite rate						13,982.21	13,982.20

Item No. 11- 46**Cu.m. a) Extra for first floor over item 11-42 to 11-45**

Total Labour rate	Same as in item 11-26(a)					654.90	654.90
Total Composite rate	Same as in item 11-26(a)					674.55	674.55

Cu.m. b) Extra for every additional floor above first floor over item 11-46(a)

Total Labour rate	Same as in item 11-26(b)					419.25	419.25
Total Composite rate	Same as in item 11-26(b)					431.85	431.85

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11- 47-1

Cu.m. Providing and laying reinforced first class burnt bricks set in cement sand mortar 1:3 in lintel including scaffolding, fromwork and its removal, curing but excluding the cost of reinforcement in basement, plinth and ground floor.

Considering a brick lintel over 13.5" thick wall with clear span 6 ft and 12" bearing on either side and 9" height using 1/2" dia bars. Bricks laid on edge in four rows and two courses on 13.5" thick wall, the remaining horizontal and vertical gaps filled with cement sand mortar 1 : 3 and reinforcement.

Masonry	8.0x1.125x0.75	6.75	Cu.ft.
Number of bricks in one row of 8 ft. long lintel		10.00	Nos.
Total bricks in four rows = 2x4x10		80.00	Nos.
Cubical contents of bricks:			
One brick		105.82	Cu.in.
Bricks	(105.82/1728) x 80	4.90	Cu.ft.
Mortar	(6.75 - 4.899)	1.85	Cu.ft.
Material for one cu.m.			
Bricks	(35.31/6.75) x 80 + 5%	439.41	Nos.
Mortar	(6.75/35.31) x 1.851 + 10%	0.39	Cu.m.
Formwork for 6.75 Cu.ft. = 6.0 x 1.125		6.75	Sq.ft.
For one Cu.m.	(35.31/6.75) x 6.75	35.31	Sq.ft.

1. Labour

Mason	8.00	Hrs	@	125.00	1,000.00
Labourer	12.00	Hrs	@	87.50	1,050.00
Bahishti	2.00	Hrs	@	87.50	175.00
Mistri	1.00	Hrs	@	110.00	110.00

2,335.00

Contractor's profit &

20%

467.00

Total Labour rate

2,802.00

2,802.00

2. Material

Bricks	439.41	No.	@	10.00	4,394.13
Mortar	0.39	Cu.m.	@	6099.30	2,374.02
Water Charges				1.5%	101.52

6,869.68

3. Formwork

35.31 Sq.ft. 35.10 1,239.38

4. Scaffolding

35.31 Sq.ft. 7.05 248.94

Total of 2, 3 & 4

8,358.00

Contractor's profit & overhead

20%

1,671.60

Total Composite rate

12,831.60

12,831.60**Item No. 11- 48**

Providing and laying reinforced first class burnt bricks with cement concrete in ribs and on top using crushed aggregate 3/4" and down gauge, mix not leaner than 1:2:4 including formwork and its removal, compacting, curing but excluding the cost of reinforcement in basement and ground floor.

Cu.m. a) R.B. Slab 4.5" nominal thick including 1.5" thick R.C.C. ribs and 1.5" thick cover on top.

Brick fillet panels (9"x4-3/8x2-11/16) and laid flat, the size of slab is worked out as under:

Brick length 9"+3/4" thick rib on either side of brick makes the panel length 10.5".

Taking 14 brick panels laid,	14 x 10.5"	12.25	Ft.	=	12.50	Ft.
Flat brick 4.37+.75" thick rib on either side = 47/8" With 21 brick panels, the width comes to: 21x47/8		10.50	Ft.			
No. of panels	21x14	294.00				
R.B. Slab Total Volume	12.50x10.50x0.377	49.48	Cu.ft.			

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Volume of one brick	0.07		Cu.ft.	
	Volume of 294 bricks	(.07) x 294	20.67	Cu.ft.	
	R.C.C. Total Vol - Volume of bricks	28.81		Cu.in.	
	Formwork 12.50x10.50	131.25		Sq.ft.	
	Area for scaffolding	131.25		Sq.ft.	
	Material for one cubic metre				
	Bricks + 5% wastage	(294/49.48) x 35.31 x 1.05	220.30	Nos.	
	R.C.C. + 5% wastage	(28.81/49.48) x 35.31 x 1.05	21.59	Cu.ft.	= 0.67 Cu.m.
	Formwork	(131.25/49.48)x35.31	93.66	Sq.ft.	
	Scaffolding	93.66		Sq.ft.	
	1. Labour				
	Mason	12.00	Hrs	@ 125.00	1,500.00
	Labourer	18.00	Hrs	@ 87.50	1,575.00
	Bahishti	2.00	Hrs	@ 87.50	175.00
	Mistri	1.00	Hrs	@ 110.00	110.00
					3,360.00
	Contractor's profit & overhead		20%		672.00
	Total Labour rate				4,032.00
					4,032.00
	2. Material				
	Bricks	220.50	No.	@ 10.00	2,205.00
	Concrete 1:2:4	Same as in item 5-8(c)	0.67	Cu.m.	@ 1848.08 1,238.21
	Water Charges			1.5%	51.65
					3,494.86
	3. Formwork	93.66	Sq.ft.	35.10	3,287.47
	4. Scaffolding	93.66	Sq.ft.	7.05	660.30
	Total of 2, 3 & 4				7,442.63
	Contractor's profit & overhead		20%		1,488.53
	Total Composite rate				12,963.16
					12,963.15
Cu.m.	b) R.B. Slab 6" nominal thick including 1.5" (38mm) thick R.C.C. ribs and 1.5" thick cover on top.				
	Taking 14 brick panels laid, 14 x 10.5"	12.25	Ft.	= 12.50	Ft.
	Brick on edge 2.668 +0.75" thick rib on either side =67/16" with 27 brick panels, the width comes to: 27x47/8	10.50	Ft.		
	No. of panels 27x14	378.00			
	R.B. Slab Total Volume 12.5x10.5x0.5	65.63	Cu.ft.		
	Volume of one brick	0.07	Cu.ft.		
	Volume of 378 bricks	(0.07) x 378	26.46	Cu.ft.	
	R.C.C. Total Vol - Volume of bricks	39.17	Cu.in.		
	Formwork 12.5x10.5	131.25	Sq.ft.		
	Area for scaffolding	131.25	Sq.ft.		
	Material for one cubic metre				
	Bricks + 5% wastage	(378/65.63) x 35.31 x 1.05	213.55	Nos.	
	R.C.C. + 5% wastage	(39.17/65.63) x 35.31 x 1.05	22.13	Cu.ft.	= 0.63 Cu.m.
	Formwork	(131.25/65.63)x35.31	70.61	Sq.ft.	
	Scaffolding	70.61	Sq.ft.		
	1. Labour				
	Mason	8.00	Hrs	@ 125.00	1,000.00
	Labourer	12.00	Hrs	@ 87.50	1,050.00
	Bahishti	2.00	Hrs	@ 87.50	175.00
	Mistri	1.00	Hrs	@ 110.00	110.00
					2,335.00
	Contractor's profit & overhead		20%		467.00
	Total Labour rate				2,802.00
					2,802.00
	2. Material				
	Bricks	213.6	No.	@ 10.00	2,135.55
	Concrete 1:2:4	Same as in item 5-8(c)	0.63	Cu.m.	@ 8728.35 5,469.81

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Water Charges	1.5%	114.08		
			7,719.44		
3.	Formwork	71.77	Sq.ft.	35.10	2,519.07
4.	Scaffolding	71.77	Sq.ft.	7.05	505.97
	Total of 2, 3 & 4				10,744.48
	Contractor's profit & overhead	20%	2,148.90		
	Total Composite rate		15,695.37		15,695.35

Cu.m. c) R.B. Slab 8" nominal thick including 2" thick R.C. ribs, 1.5" thick cover on top and 4 brick panel laid in cement sand mortar 1:3.

Panels comprising 4 bricks of 9" length

Width	2x4.375 = 8.75+ 0.25 joint	9.00	
Height	2x2.688 = 5.375+0.25 joint	5.63	
Length of panel	9" + 2"	11"	
Assumed 18 panels in length = 18x11"		16.50	Ft.
Assumed 15 panels in width = 15x11"		13.75	Ft.
No. of panels	18x15	270.00	Nos.
Bricks	4x 270	1080.00	Nos.
Mortar 1:3			
Vertical	9"x0.25x5.625	12.66	
Horizontal	9"x9"x1/4"	20.25	
		32.91	Cu.in.

For 270 panels 32.91 x 270/1728 5.14 Cu.ft.

R.B. Slab Total Volume 16.50x14.0x0.62 143.22 Cu.ft.

Volume of one brick 0.07 Cu.ft.

Volume of 1080 bricks 0.07 x 1080 75.94 Cu.ft.

Mortar 5.14 Cu.ft.

Concrete 1:2:4 Total Vol - Volume of bricks 67.28 Cu.ft.

Formwork 16.5 x 14 231.00 Sq.ft.

Scaffolding 231.00 Sq.ft.

Material for one cubic metre

Bricks + 5% wastage (1080/143.22) x 35.31 x 1.05 279.58 Nos.

Mortar. + 10% wastage (5.14/143.22) x 35.31 x 1.1 1.39 Cu.ft. = 0.04 Cu.m.

R.C.C. + 5% wastage (67.28/143.22) x 35.31 x 17.42 Cu.ft. = 0.49 Cu.m.

Formwork (231/143.22)x35.31 50.58 Sq.ft.

Scaffolding 50.58 Sq.ft.

1. Labour

Mason 6.00 Hrs @ 125.00 750.00

Labourer 12.00 Hrs @ 87.50 1,050.00

Bahishti 2.00 Hrs @ 87.50 175.00

Mistri 1.00 Hrs @ 110.00 110.00

2,085.00

Contractor's profit & overhead 20% 417.00

Total Labour rate 2,502.00 **2,502.00**

2. Material

Bricks 279.58 No. @ 10.00 2,795.81

Mortar 0.04 Cu.m. @ 6099.30 240.79

Concrete 1:2:4 Same as in item 5-8(c) 0.49 Cu.m. @ 8728.35 4,305.46

Water Charges 1.5% 106.52

7,448.58

3. Formwork 50.58 Sq.ft. @ 35.10 1,775.45

4. Scaffolding 50.58 Sq.ft. @ 7.05 356.61

Total of 2, 3 & 4 9,580.63

Contractor's profit & overhead 20% 1,916.13

Total Composite rate 13,998.76 **13,998.75**

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11- 49

Providing and laying reinforced first class burnt bricks set in cement sand mortar 1:3 in cantilever slab, sun shade etc. including formwork and its removal curing but excluding the cost of reinforcement in basement and ground floor.

Cu.m. a) 3" nominal thick cantilever slab and sun shade etc.

Considering a cantilever slab of verandah having clear span of 8 ft. width of slab 15" and thickness 2.67" reinforced with 1/2" dia M.S.bars. Bricks laid flat in three rows in 15" wide slab with 1" gap in between. The horizontal and vertical gaps are to be filled with cement sand mortar 1:3

R.B. masonry	8.0x1.25x0.224	2.24	Cu.ft.			
Number of bricks in a row for the length of slab are		10.00	Cu.ft.			
Total No. of bricks	3x10	30.00	Nos.			
Volume of bricks	105.82 x 30 / 1728	1.84	Cu.ft.			
Mortar		0.40	Cft.			
Material for one cubic metre						
Bricks + 5% wastage	35.31 x 30/2.24 x 1.05	496.55	Nos.			
Mortar. + 10% wastage	0.403/2.24 x 35.31 x 1.1	6.99	Cu.ft.	=	0.20	Cu.m.
Formwork	10/2.24 x 35.31	157.63	Sq.ft.			
Scaffolding		157.63	Sq.ft.			
1. Labour						
Mason		10.00	Hrs	@	125.00	1,250.00
Labourer		20.00	Hrs	@	87.50	1,750.00
Bahishti		2.00	Hrs	@	87.50	175.00
Mistri		1.00	Hrs	@	110.00	110.00
						<u>3,285.00</u>
Contractor's profit & overhead					20%	657.00
Total Labour rate						<u>3,942.00</u> 3,942.00
2. Material						
Bricks		496.55	No.	@	10.00	4,965.47
Mortar		0.20	Cu.m.	@	6099.30	1,207.06
Water Charges					1.5%	92.59
						<u>6,265.12</u>
3. Formwork		157.63	Sq.ft.		35.10	5,532.95
4. Scaffolding		157.63	Sq.ft.		7.05	1,111.32
Total of 2, 3 & 4						<u>12,909.39</u>
Contractor's profit & overhead					20%	2,581.88
Total Composite rate						<u>19,433.27</u> 19,433.25

Cu.m. b) 4.5" (115mm) nominal thick cantilever slab and sun shade etc.

Considering a cantilever slab of 10 ft.x 4 ft. and 4.38" thick having reinforcement of 1/2" dia M.S. bars. Brick laid on edge will be 12 (stretcher) in length of 10 ft. and 15 (header) in width of 4 ft.

R.B. masonry	10.0x4.0x0.365	14.60	Cu.ft.			
Number of bricks	12 x 15	180.00	Nos.			
Volume of bricks	105.82 x 180 / 1728	11.02	Cu.ft.			
Mortar		3.58	Cu.ft.			
Formwork	10x4	40.00	Sq.ft.			
Material for one cubic metre						
Bricks + 5% wastage	35.31 x 180/14.6 x 1.05	457.10	Nos.			
Mortar. + 10% wastage	3.58/14.6 x 35.31 x 1.1	9.52	Cu.ft.	=	0.27	Cu.m.
Formwork	40/14.6x 35.31	96.74	Sq.ft.			
Scaffolding		96.74	Sq.ft.			
1. Labour						
Mason		9.00	Hrs	@	125.00	1,125.00
Labourer		18.00	Hrs	@	87.50	1,575.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Bahishti	2.00 Hrs @	87.50	175.00		
Mistri	1.00 Hrs @	110.00	110.00		
			2,985.00		
Contractor's profit & overhead		20%	597.00		
Total Labour rate			3,582.00		3,582.00
2. Material					
Bricks	457.10 No. @	10.00	4,570.95		
Mortar	0.27 Cu.m. @	6099.30	1,645.14		
Water Charges		0.02	93.24		
			6,309.33		
3. Formwork	Rate reduced by 75%	96.74 Sq.ft.	35.10	3,395.56	
4. Scaffolding	Rate reduced by 75%	96.74 Sq.ft.	7.05	682.02	
Total of 2, 3 & 4				10,386.91	
Contractor's profit & overhead			20%	2,077.38	
Total Composite rate				16,046.30	16,046.30

Item No. 11- 50-1

Cu.m. Providing and laying reinforced first class burnt bricks set in cement sand mortar 1:3 in stair case waist slab and landing of required section including scaffolding and formwork and its removal, curing but excluding the cost of reinforcement in basement and ground floor.

Considering a stair 3--6" wide laid over 6' span having 4.5" thick waist landing 3'-6" square supported on 13.5" thick burnt brick wall having 0.375" thick vertical/horizontal joints.

R.B. Masonry

Waist	$(6^2+3.75^2)^{0.5} \times 3.5 \times 0.375$	9.29	Cu.ft.		
Landing	$(3'-6"+1-1.5") \times 3.5 \times 0.375$	6.07	Cu.ft.		
Steps	$6 \times 0.25 \times 1.0 \times 3.5 \times 7.25$	6.56	Cu.ft.		
		21.92	Cu.ft.		
Formwork	$(6^2+3.75^2) = 7.08 \times 3.5$	24.78	Sq.ft.		
	3.5x3.5	12.25	Sq.ft.		
		37.03	Sq.ft.		
Formwork for 21.92 cu.ft.					
Masonry		37.03	Sq.ft.		
Formwork for one cu.m.	$35.31 \times 21.92 / 37.03$	59.66	Sq.ft.		
Area of scaffolding		59.66	Sq.ft.		
Bricks and mortar					
Bricks + 10% wastage	486x1.1	534.60	Nos.		
Mortar. + 10% wastage	$0.158 \times 35.31 \times 1.1$	6.14	Cu.ft.	=	0.17 Cu.m.
Formwork	$40/14.6 \times 35.31$	59.66	Sq.ft.		
Scaffolding		59.66	Sq.ft.		

1. Labour

Mason	15.50 Hrs @	125.00	1,937.50		
Labourer	28.00 Hrs @	87.50	2,450.00		
Bahishti	2.00 Hrs @	87.50	175.00		
Mistri	1.00 Hrs @	110.00	110.00		
			4,672.50		

Contractor's profit & overhead

			20%	934.50	
Total Labour rate				5,607.00	5,607.00

2. Material

Bricks	534.60 No. @	10.00	5,346.00		
Mortar	0.17 Cu.m. @	6099.30	1,060.06		
Water Charges		1.5%	96.09		
			6,502.15		

3. Formwork	59.66 Sq.ft.	35.10	2,094.04		
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4. Scaffolding	59.66 Sq.ft.	7.05	420.60		
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Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total of 2, 3 & 4				9,016.79
	Contractor's profit & overhead	20%			1,803.36
	Total Composite rate				16,427.15

Item No. 11- 51**Cu.m. a) Extra for R.B. masonry for first floor.**

1. Labour

Mason	0.75	Hrs	@	125.00	93.75
Labourer	1.50	Hrs	@	87.50	131.25
Bahishti	0.25	Hrs	@	87.50	21.88
Mistri	0.25	Hrs	@	110.00	27.50
					<u>274.38</u>
Contractor's profit &				20%	54.88
Total Labour rate					<u>329.25</u> 329.25

2. Scaffolding

Contractor's profit & overhead				3%	8.23
Contractor's profit & overhead				20%	1.65
Total Composite rate					<u>339.13</u> 339.15

Cu.m. b) Extra for R.B. masonry for every additional floor over first floor.

1. Labour

Mason	0.75	Hrs	@	125.00	93.75
Labourer	1.50	Hrs	@	87.50	131.25
Bahishti	0.25	Hrs	@	87.50	21.88
Mistri	0.25	Hrs	@	110.00	27.50
					<u>274.38</u>
Contractor's profit & overhead				20%	54.88
Total Labour rate					<u>329.25</u> 329.25

2. Scaffolding

Contractor's profit & overhead				3%	8.23
Contractor's profit & overhead				20%	1.65
Total Composite rate					<u>339.13</u> 339.15

Item No. 11- 52-1**Cu.m. Extra labour for profile and flared out walls.**

1. Labour

Mason	1.00	Hrs	@	125.00	125.00
Labourer	3.00	Hrs	@	87.50	262.50
Bahishti	0.25	Hrs	@	87.50	21.88
Mistri	0.25	Hrs	@	110.00	27.50
					<u>436.88</u>
Contractor's profit & overhead				20%	87.38
Total Labour rate					<u>524.25</u> 524.25

2. Scaffolding

Contractor's profit & overhead				3%	13.11
Contractor's profit & overhead				20%	2.62
Total Composite rate					<u>539.98</u> 540.00

Item No. 11- 53**Extra labour for pucca brick work in piers and abutment.****Cu.m. a) Above 10 ft to 20 ft (3 m to 6 m) height**

1. Labour

Mason	0.75	Hrs	@	125.00	93.75
Labourer	2.25	Hrs	@	87.50	196.88

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
	Bahishti	0.25	Hrs	@	87.50	21.88	
	Mistri	0.25	Hrs	@	110.00	27.50	
						340.00	
	Contractor's profit & overhead				20%	68.00	
	Total Labour rate					408.00	408.00
	2. Scaffolding				3%	10.20	
	Contractor's profit & overhead				20%	2.04	
	Total Composite rate					420.24	420.25

Cu.m. b) Above 20 ft (6 m) height

1. Labour

Mason	1.50	Hrs	@	125.00	187.50	
Labourer	4.50	Hrs	@	87.50	393.75	
Bahishti	0.25	Hrs	@	87.50	21.88	
Mistri	0.25	Hrs	@	110.00	27.50	
					630.63	
Contractor's profit & overhead				20%	126.13	
Total Labour rate					756.75	756.75

2. Scaffolding

Contractor's profit & overhead				3%	18.92	
Total Composite rate				20%	3.78	
					779.45	779.45

Item No. 11- 54-1**Cu.m. Extra to face work 4.5" (115 mm) nominal thick using special bricks instead of first class burnt bricks.**

1. Labour

Labour	10% of material cost			10%	102.00	
Contractor's profit & overhead				20%	20.40	
Total Labour rate					122.40	122.40

2. Material

Bricks - special	510.00	No.	@	12.00	6,120.00	
Bricks	510.00	No.	@	10.00	5,100.00	
Cost difference					1,020.00	
Contractor's profit & overhead				20%	204.00	
Total Composite rate					1,346.40	1,346.40

Item No.11- 55**Extra for dressing or chamfering bricks.****100 a) Special architectural bricks**

Nos.	1. Labour						
	Mason	1.50	Hrs	@	125.00	187.50	
	Labourer	6.00	Hrs	@	87.50	525.00	
						712.50	
	Contractor's profit & overhead				20%	142.50	
	Total Labour rate					855.00	855.00

100 b) All other purposes

Nos.	Rate 50% of Item 11 - 55(a) above.					427.50	427.50
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Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 11- 56

Providing and laying ghilafi brick work 13.5" (345mm) nominal thick including scaffolding and raking out joints with 1:5 mortar

Cu.m. a) Foundation, basement and plinth

1. Labour

Mason	11.00	Hrs	@	125.00	1,375.00
Labourer	17.00	Hrs	@	87.50	1,487.50
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.35	Hrs	@	110.00	38.50
					<u>3,032.25</u>

Av. of burnt brick masonry + Sundried clay bricks	612.81/2				1,516.13
Contractor's profit & overhead				20%	303.23
Total Labour rate					<u>1,819.35</u>

1,819.35

2. Material

Bricks	242.00	No.	@	10.00	2,420.00
Brick sundried	242.00	No.	@	6.00	1,452.00
Mud Mortar	0.11	Cu.m.	@	91.81	10.28
Cement Mortar (1:5)	0.11	Cu.m.	@	4104.30	459.68
Water Charges				1.5%	65.13
					<u>4,407.09</u>

3. Scaffolding				2%	88.14
Total of 2 & 3					<u>4,495.24</u>
Contractor's profit & overhead				20%	899.05
Total Composite rate					<u>7,213.63</u>

7,213.65**Cu.m. b) Walls in superstructure**

1. Labour

Mason	10.00	Hrs	@	125.00	1,250.00
Labourer	20.00	Hrs	@	87.50	1,750.00
Bahishti	1.25	Hrs	@	87.50	109.38
Mistri	0.35	Hrs	@	110.00	38.50
					<u>3,147.88</u>

Av. of burnt brick masonry + Sundried clay bricks	771.25/2				1,573.94
Contractor's profit & overhead				20%	314.79
Total Labour rate					<u>1,888.73</u>

1,888.75

2. Material

Same as in item 11 -56 (a)					4,407.09
3. Scaffolding				2%	88.14
Total of 2 & 3					<u>4,495.24</u>
Contractor's profit & overhead				20%	899.05
Total Composite rate					<u>7,283.01</u>

7,283.00**Item No.11- 57-1****Cu.m. Providing and laying first class burnt bricks (Brick Strength: 1800psi - 2000psi) flooring or pitching dry bricks laid flat and i/c cost of testing.**

1. Labour

Mason	2.00	Hrs	@	125.00	250.00
Labourer	4.00	Hrs	@	87.50	350.00
					<u>600.00</u>
Contractor's profit & overhead				20%	120.00
Total Labour rate					<u>720.00</u>

720.00

2. Material

Brick	105.82	Cu.in.	=	0.06	Cu.ft
No. of bricks in cu.m.	35.31 / 0.06124		=	576.60	

Unit	Description				Component Cost	Unit	Rate
					(Rs)	(Rs)	
	Wastage	0.05			28.83		
					605.43		
	Bricks	605.43	No.	@	10.00		6,054.29
	Contractor's profit & overhead				20%		1,210.86
	Total Composite rate					7,985.14	7,985.15
	Item No. 11- 58-1						
Cu.m.	Providing pise wall (mud walling) in superstructure.						
	1. Labour						
	Mason	4.00	Hrs	@	125.00		500.00
	Labourer	1.50	Hrs	@	87.50		131.25
							631.25
	Contractor's profit & overhead				20%		126.25
	Total Labour rate					757.50	757.50
	2. Material						
	Clay	1.30	Cu.m.	@	70.62		91.81
	Contractor's profit & overhead				20%		18.36
	Total Composite rate					867.67	867.65
	Item No. 11- 59-1						
%Nos.	Cleaning bricks dismantled from kacha pacca masonry.						
	1. Labour						
	Labourer	14.00	Hrs	@	87.50		1,225.00
	Contractor's profit & overhead				20%		245.00
	Total Labour rate					1,470.00	1,470.00
	Item No. 11- 60-1						
%Nos.	Scraping bricks dismantled from pacca masonry.						
	1. Labour						
	Labourer	27.00	Hrs	@	87.50		2,362.50
	Contractor's profit & overhead				20%		472.50
	Total Labour rate					2,835.00	2,835.00
	Item No. 11- 61-1						
Cu.m.	Supplying and filling sand under floor or plugging in wells.with lead upto 800 ft (250m)						
	Lead upto150 m	Rate as per item 3-41					37.04
	Lead beyond 150 m	As per item 3-17(a)	7.00	times	882.75		6,179.25
							6,216.29
	Contractor's profit & overhead				20%		1,243.26
	Total Labour rate					7,459.55	7,459.55
	Item No. 11- 62-1						
Cu.m.	Chamfering sides of head regulators to increase width.						
	1. Labour						
	Mason	3.50	Hrs	@	125.00		437.50
	Labourer	3.50	Hrs	@	87.50		306.25
							743.75
	Contractor's profit & overhead				20%		148.75
	Total Labour rate					892.50	892.50

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
Item No. 11- 63-1						
Each	Replacing Kallar eaten bricks					
1. Labour						
Mason	0.20	Hrs	@	125.00	25.00	
Labourer	0.20	Hrs	@	87.50	17.50	
					42.50	
Contractor's profit & overhead				20%	8.50	
Total Labour rate					51.00	51.00
2. Material						
Bricks	1.00	No.	@	10.00	10.00	
Mortar @ 50% of cost of				50%	5.00	
Water Charges				1.5%	0.23	
					15.23	
Contractor's profit & overhead				20%	3.05	
Total Composite rate					69.27	69.25
Item No.11- 64-1						
Each	Repairing corners of bridges and other hydraulic masonry works.					
1. Labour						
Mason	2.00	Hrs	@	125.00	250.00	
Labourer	2.00	Hrs	@	87.50	175.00	
					425.00	
Contractor's profit & overhead				20%	85.00	
Total Labour rate					510.00	510.00
2. Material						
Bricks	15.00	No.	@	10.00	150.00	
Mortar @ 100% of cost of bricks				100%	150.00	
Water Charges				1.5%	4.50	
					304.50	
Contractor's profit & overhead				20%	60.90	
Total Composite rate					875.40	875.40
Item No. 11- 65-1						
R.M.	Extra labour for drains of bath rooms etc.					
1. Labour						
Mason	0.50	Hrs	@	125.00	62.50	
Labourer	0.50	Hrs	@	87.50	43.75	
					106.25	
Contractor's profit & overhead				20%	21.25	
Total Labour rate					127.50	127.50
Item No.11- 66-1						
Each	Extra work for Marrow corners.					
Supposing 5 bricks are dressed to required shape.						
1. Labour						
Mason	1.00	Hrs	@	125.00	125.00	
Labourer	1.00	Hrs	@	87.50	87.50	
					212.50	
Contractor's profit & overhead				20%	42.50	
Total Labour rate					255.00	255.00
2. Material						

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
	Taking wastage of 2 bricks					
	Bricks	2.00	No.	@	10.00	20.00
	Contractor's profit & overhead				20%	4.00
	Total Composite rate					279.00
						279.00

Item No. 11- 67-1

Cu.m. Extra for first class burnt solid or hollow block or tile masonry of any description in any floor or other than building for every 1.50 m. height or part thereof beyond 4.5m.

Total Labour rate	Same as in item 9-16	80.20	80.20
Total Composite rate	Same as in item 9-16	94.60	94.60

Item No. 11- 68-1

Tonne Extra for reinforcement in brick work of any description for every 5 ft 1.5m height or part thereof beyond 15 ft or 4.5m.

Considering hoisting upto a height of 12 m.

1. Labour

Labourer	76.00	Hrs	@	87.50	6,650.00
Contractor's profit & overhead				20%	1,330.00
Total Labour rate					1,596.00
					1,596.00

2. Scaffolding & sundries

Contractor's profit & overhead				2%	133.00
Total Composite rate				20%	26.60
					1,627.92
					1,627.90

Item No. 11- 68

Cu.m. a) Extra for Brick masonry of height above 12 ft but upto 24 ft on Ground Floor only

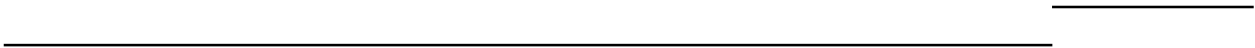
Extra for Brick masonry of height above 12 ft but upto 24 ft

15%

TABLE-11

Mortar ratio	Weight / Volume	Unit	Rate (Rs.)	Cost (Rs.)
Cement sand mortar				
1 : 2				
Cement OPC	0.72	M.Ton	10500.00	7560.00
Sand	1.00	Cu.m.	882.75	882.75
				8442.75
1 : 2.5				
Cement OPC	0.58	M.Ton	10500.00	6090.00
Sand	1.00	Cu.m.	882.75	882.75
				6972.75
1 : 3				
Cement OPC	0.48	M.Ton	10500.00	5040.00
Sand	1.00	Cu.m.	1059.30	1059.30
				6099.30
1 : 3.5				
Cement OPC	0.41	M.Ton	10500.00	4305.00
Sand	1.00	Cu.m.	1059.30	1059.30
				5364.30
1 : 4				
Cement OPC	0.36	M.Ton	10500.00	3780.00
Sand	1.00	Cu.m.	1059.30	1059.30
				4839.30
1 : 5				
Cement OPC	0.29	M.Ton	10500.00	3045.00
Sand	1.00	Cu.m.	1059.30	1059.30
				4104.30
1 : 6				
Cement OPC	0.24	M.Ton	10500.00	2520.00
Sand	1.00	Cu.m.	1059.30	1059.30
				3579.30
1 : 7				
Cement OPC	0.21	M.Ton	10500.00	2205.00
Sand	1.00	Cu.m.	1059.30	1059.30
				3264.30
1 : 8				
Cement OPC	0.18	M.Ton	10500.00	1890.00
Sand	1.00	Cu.m.	1059.30	1059.30
				2949.30
Mud mortar				
Clay	1.30	Cu.m.	70.62	91.81
Lime surki mortar				
1 : 2				2464.00
Lime	0.32	M.Ton	7700.00	6380.00
Surki	1.00	Cu.m.	6380.00	8844.00

Mortar ratio	Weight / Volume	Unit	Rate (Rs.)	Cost (Rs.)
Cement sand mortar				
1 : 2				
Cement OPC	0.72	M.Ton	10500.00	7560.00
Sand	1.00	Cu.m.	882.75	882.75
				8442.75
1 : 2.5				
Cement OPC	0.58	M.Ton	10500.00	6090.00
Sand	1.00	Cu.m.	882.75	882.75
				6972.75
1 : 3				
Cement OPC	0.48	M.Ton	10500.00	5040.00
Sand	1.00	Cu.m.	882.75	882.75
				5922.75
1 : 3.5				
Cement OPC	0.41	M.Ton	10500.00	4305.00
Sand	1.00	Cu.m.	882.75	882.75
				5187.75
1 : 4				
Cement OPC	0.36	M.Ton	10500.00	3780.00
Sand	1.00	Cu.m.	882.75	882.75
				4662.75
1 : 5				
Cement OPC	0.29	M.Ton	10500.00	3045.00
Sand	1.00	Cu.m.	882.75	882.75
				3927.75
1 : 6				
Cement OPC	0.24	M.Ton	10500.00	2520.00
Sand	1.00	Cu.m.	882.75	882.75
				3402.75
1 : 7				
Cement OPC	0.21	M.Ton	10500.00	2205.00
Sand	1.00	Cu.m.	882.75	882.75
				3087.75
1 : 8				
Cement OPC	0.18	M.Ton	10500.00	1890.00
Sand	1.00	Cu.m.	882.75	882.75
				2772.75
Mud mortar				
Clay	1.30	Cu.m.	70.62	91.81



Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 12 - 1 - 1

Cu.m. Providing, dressing and laying dry uncoursed rubble masonry in retaining or compound walls including scaffolding.

1. Labour

Mason	8.00	Hrs	@	125.00	1,000.00
Labourer	10.00	Hrs	@	87.50	875.00
Stone chiseller	2.00	Hrs	@	90.00	180.00
					<u>2,055.00</u> (A)
Contractor's profit & overhead				20%	411.00
Total Labour rate					<u>2,466.00</u>

2,466.00

2. Material

Building stone	1.70	Cu.m.	@	706.20	1,200.54
3. Scaffolding and Sundri 1% of (A)				1%	20.55
Total of 2 & 3					<u>1,221.09</u>

Contractor's profit & overhead

				20%	244.22
Total					<u>1,465.31</u>

Total Composite rate

3,931.31

3,931.30**Item No. 12 - 2 - 1**

Cu.m. Providing, dressing and laying dry coursed rubble masonry in retaining or compound walls including scaffolding.

1. Labour

Mason	10.00	Hrs	@	125.00	1,250.00
Labourer	12.00	Hrs	@	87.50	1,050.00
Stone chiseller	2.50	Hrs	@	90.00	225.00
					<u>2,525.00</u> (A)
Contractor's profit & overhead				20%	505.00
Total Labour rate					<u>3,030.00</u>

3,030.00

2. Material

Building stone	1.60	Cu.m.	@	706.20	1,129.92
3. Scaffolding and Sundries				5%	126.25
Total of 2 & 3					<u>1,256.17</u>

Contractor's profit & overhead

				20%	251.23
Total					<u>1,507.40</u>

Total Composite rate

4,537.40

4,537.40**Item No. 12 - 3 - 1**

Cu.m. Providing, dressing and laying dry coursed or uncoursed rubble pitching of any thickness

1. Labour

Mason	8.00	Hrs	@	125.00	1,000.00
Labourer	10.00	Hrs	@	87.50	875.00
Stone chiseller	2.25	Hrs	@	90.00	202.50
					<u>2,077.50</u> (A)
Contractor's profit & overhead				20%	415.50
Total Labour rate					<u>2,493.00</u>

2,493.00

2. Material

Building stone	1.50	Cu.m.	@	706.20	1,059.30
3. Scaffolding and Sundries				2.5%	51.94
Total of 2 & 3					<u>1,111.24</u>

Contractor's profit & overhead

				20%	222.25
Total					<u>1,333.49</u>

1,333.49

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Composite rate	3,826.49	3,826.50

Item No. 12 - 4

Providing, dressing and laying uncoursed rubble masonry in foundation, plinth and basement including scaffolding and curing.

Cu.m. a) In mud mortar

1. Labour

Mason	7.00	Hrs	@	125.00	875.00
Stone chiseller	2.00	Hrs	@	90.00	180.00
Labourer	9.00	Hrs	@	87.50	787.50
Bahishti	1.00	Hrs	@	87.50	87.50
					<u>1,930.00 (A)</u>
Contractor's profit & overhead				20%	386.00
Total Labour rate					<u>2,316.00</u>

2,316.00

2. Material

Building stone	1.25	Cu.m.	@	706.20	882.75
Mud mortar	0.40	Cu.m.	@	250.00	100.00
Water charges				1.5%	14.75
					<u>997.50</u>

3. Scaffolding and Sundries

				5%	96.50
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Total of 2 & 3					<u>1,094.00</u>
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Contractor's profit & overhead				20%	218.80
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Total					<u>1,312.79</u>
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Total Composite rate					3,628.79	3,628.80
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Cu.m. b) In cement, sand mortar

i) 1 : 3

1. Labour

Mason	7.00	Hrs	@	125.00	875.00
Chiseller	2.00	Hrs	@	90.00	180.00
Labourer	9.00	Hrs	@	87.50	787.50
Bahishti	1.00	Hrs	@	87.50	87.50
					<u>1,930.00 (A)</u>

Contractor's profit & overhead				20%	386.00
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Total Labour rate					<u>2,316.00</u>	2,316.00
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2. Material

Building stone	Same as item 12 - 4 (a)				882.75
Mortar	0.40	Cu.m.	@	6,099.30	2,439.72
Water charges				1.5%	36.60
					<u>3,359.07</u>

3. Scaffolding and Sundries

				5%	96.50
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Total of 2 & 3					<u>3,455.57</u>
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Contractor's profit & overhead				20%	691.11
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Total					<u>4,146.68</u>
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Total Composite rate					6,462.68	6,462.70
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ii) 1 : 4

1. Labour

Same as item 12 - 4 (b)					1,930.00 (A)	
Contractor's profit & overhead				20%	386.00	
Total Labour rate					<u>2,316.00</u>	2,316.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
Building stone	Same as item 12 - 4 (a)			882.75
Mortar		0.40	Cu.m. @	4,839.30
Water charges			1.5%	42.27
				<u>2,860.74</u>
3. Scaffolding and Sundries				
Total of 2 & 3			5%	96.50
Contractor's profit & overhead			20%	591.45
Total				<u>3,548.69</u>
Total Composite rate				5,864.69
				5,864.70

iii) 1 : 6

1. Labour				
Same as item 12 - 4 (b)				1,930.00 (A)
Contractor's profit & overhead			20%	386.00
Total Labour rate				<u>2,316.00</u>
				2,316.00
2. Material				
Building stone	Same as item 12 - 4 (a)			882.75
Mortar		0.40	Cu.m. @	3,579.30
Water charges			2.0%	46.28
				<u>2,360.75</u>
3. Scaffolding and Sundries				
Total of 2 & 3			5%	96.50
Contractor's profit & overhead			20%	491.45
Total				<u>2,948.70</u>
Total Composite rate				5,264.70
				5,264.70

iv) 1 : 8

1. Labour				
Same as item 12 - 4 (b)				1,930.00 (A)
Contractor's profit & overhead			20%	386.00
Total Labour rate				<u>2,316.00</u>
				2,316.00
2. Material				
Building stone	Same as item 12 - 4 (a)			882.75
Mortar		0.40	Cu.m. @	2,949.30
Water charges			2.0%	41.24
				<u>2,103.71</u>
3. Scaffolding and Sundries				
Total of 2 & 3			5%	96.50
Contractor's profit & overhead			20%	440.04
Total				<u>2,640.25</u>
Total Composite rate				4,956.25
				4,956.25

Item No. 12 - 5

Providing, dressing and laying coursed rubble masonry in foundation, plinth and basement including scaffolding and curing.

Cu.m. a) In mud mortar

1. Labour				
Mason	10.00	Hrs	@	125.00
Stone chiseller	10.00	Hrs	@	90.00
Labourer	12.00	Hrs	@	87.50
Bahishti	1.00	Hrs	@	87.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Mistri	0.50 Hrs @ 110.00		55.00	
			3,342.50 (A)	
Contractor's profit & overhead	20%		668.50	
Total Labour rate			4,011.00	4,011.00
2. Material				
Building stone	2.83 Cu.m. @ 706.20		1,998.55	
Mud mortar	0.33 Cu.m. @ 91.81		29.84	
Water charges	1.5%		30.42	
			2,058.80	
3. Scaffolding and Sundries	5%		167.13	
Total of 2 & 3			2,225.93	
Contractor's profit & overheads	20%		445.19	
Total			2,671.11	
Total Composite rate			6,682.11	6,682.10

Cu.m. b) In cement, sand mortar**i) 1 : 3**

1. Labour

Mason	10.00 Hrs @ 125.00		1,250.00	
Stone chiseller	10.00 Hrs @ 90.00		900.00	
Labourer	16.00 Hrs @ 87.50		1,400.00	
Bahishti	1.00 Hrs @ 87.50		87.50	
Mistri	0.50 Hrs @ 110.00		55.00	
			3,692.50 (A)	

Contractor's profit & overhead

20%

738.50

Total Labour rate

4,431.00

4,431.00

2. Material

Building stone	Same as item 12 - 5 (a)		1,998.55	
Mortar	0.33 Cu.m. @ 6,099.30		2,012.77	
Water charges	1.5%		30.19	
			4,041.51	

3. Scaffolding and Sundries

5%

62.50

Total of 2 & 3

4,104.01

Contractor's profit & overhead

20%

820.80

Total

4,924.81

Total Composite rate

9,355.81

9,355.80**ii) 1 : 4**

1. Labour

Same as item 12 - 5 (b) 3,692.50 (A)

Contractor's profit & overhead

20%

738.50

Total Labour rate

4,431.00

4,431.00

2. Material

Building stone	Same as item 12 - 5 (a)		1,998.55	
Mortar	0.33 Cu.m. @ 4,839.30		1,596.97	
Water charges	1.5%		23.95	
			3,619.47	

3. Scaffolding and Sundries

5%

184.63

Total of 2 & 3

3,804.09

Contractor's profit & overhead

20%

760.82

Total

4,564.91

Total Composite rate

8,995.91

8,995.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

iii) 1 : 6

1. Labour									
	Same as item 12 - 5 (b)							3,692.50	(A)
	Contractor's profit & overhead			20%				738.50	
	Total Labour rate							4,431.00	4,431.00
2. Material									
	Building stone	Same as item 12 - 5 (a)						1,998.55	
	Mortar		0.33	Cu.m.	@	3,579.30		1,181.17	
	Water charges					1.5%		17.72	
								3,197.43	
3. Scaffolding and Sundries						5%		184.63	
	Total of 2 & 3							3,382.06	
	Contractor's profit & overhead					20%		676.41	
	Total							4,058.47	
	Total Composite rate							8,489.47	8,489.45

iv) 1 : 8

1. Labour									
	Same as item 12 - 5 (b)							3,692.50	(A)
	Contractor's profit & overhead			20%				738.50	
	Total Labour rate							4,431.00	4,431.00
2. Material									
	Building stone	Same as item 12 - 5 (a)						1,998.55	
	Mortar		0.33	Cu.m.	@	2,949.30		973.27	
	Water charges					1.5%		14.60	
								2,986.41	
3. Scaffolding and Sundries						5%		184.63	
	Total of 2 & 3							3,171.04	
	Contractor's profit & overhead					20%		634.21	
	Total							3,805.25	
	Total Composite rate							8,236.25	8,236.25

Item No. 12 - 6

Providing, dressing and laying random rubble stone masonry in foundation, plinth and basement including scaffolding and curing.

Cu.m. a) In mud mortar

1. Labour									
	Mason		8.00	Hrs	@	125.00		1,000.00	
	Stone chiseller		4.00	Hrs	@	90.00		360.00	
	Labourer		12.00	Hrs	@	87.50		1,050.00	
	Bahishti		1.00	Hrs	@	87.50		87.50	
	Mistri		0.50	Hrs	@	110.00		55.00	
								2,552.50	(A)
	Contractor's profit & overhead					20%		510.50	
	Total Labour rate							3,063.00	3,063.00
2. Material									
	Building stone		1.54	Cu.m.	@	706.20		1,087.55	
	In mud mortar		0.35	Cu.m.	@	91.81		32.13	
	Water charges					1.5%		16.80	
								1,136.48	
3. Scaffolding and Sundries						5%		127.63	
	Total of 2 & 3							1,264.11	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	252.82	
Total		1,516.93	
Total Composite rate		4,579.93	4,579.95

Cu.m. b) In cement, sand mortar**i) 1 : 3**

1. Labour							
Mason	8.00	Hrs	@	125.00	1,000.00		
Stone chiseller	4.00	Hrs	@	90.00	360.00		
Labourer	12.00	Hrs	@	87.50	1,050.00		
Bahishti	1.00	Hrs	@	87.50	87.50		
Mistri	0.50	Hrs	@	110.00	55.00		
					<u>2,552.50</u>	(A)	
Contractor's profit & overhead				20%	510.50		
Total Labour rate					<u>3,063.00</u>		3,063.00
2. Material							
Building stone		Same as item 12 - 6 (a)			1,087.55		
Mortar	0.35	Cu.m.	@	6,099.30	2,104.26		
Water charges				1.5%	47.88		
					<u>3,239.69</u>		
3. Scaffolding and Sundries							
				5%	127.63		
Total of 2 & 3					<u>3,367.31</u>		
Contractor's profit & overhead				20%	673.46		
Total					<u>4,040.77</u>		
Total Composite rate					7,103.77		7,103.75

ii) 1 : 4

1. Labour							
Same as item 12 - 6 (b)					2,552.50	(A)	
Contractor's profit & overhead				20%	510.50		
Total Labour rate					<u>3,063.00</u>		3,063.00
2. Material							
Building stone		Same as item 12 - 6 (a)			1,087.55		
Mortar	0.35	Cu.m.	@	4,839.30	1,693.76		
Water charges				1.5%	41.72		
					<u>2,823.02</u>		
3. Scaffolding and Sundries							
				5%	127.63		
Total of 2 & 3					<u>2,950.64</u>		
Contractor's profit & overhead				20%	590.13		
Total					<u>3,540.77</u>		
Total Composite rate					6,603.77		6,603.75

iii) 1 : 6

1. Labour							
Same as item 12 - 6 (b)					2,552.50	(A)	
Contractor's profit & overhead				20%	510.50		
Total Labour rate					<u>3,063.00</u>		3,063.00
2. Material							
Building stone		Same as item 12 - 6 (a)			1,087.55		
Mortar	0.35	Cu.m.	@	3,579.30	1,252.76		
Water charges				1.5%	35.10		
					<u>2,375.40</u>		

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	3. Scaffolding and Sundries	5%	127.63
	Total of 2 & 3		2,503.03
	Contractor's profit & overhead	20%	500.61
	Total		3,003.63
	Total Composite rate		6,066.63
			6,066.65

iv) 1 : 8

1. Labour							
	Same as item 12 - 6 (b)					2,552.50 (A)	
	Contractor's profit & overhead			20%		510.50	
	Total Labour rate					3,063.00	3,063.00
2. Material							
	Building stone	Same as item 12 - 6 (a)				1,087.55	
	Mortar		0.35	Cu.m.	@	2,949.30	1,032.26
	Water charges					1.5%	31.80
							2,151.60
	3. Scaffolding and Sundries					5%	127.63
	Total of 2 & 3						2,279.23
	Contractor's profit & overhead					20%	455.85
	Total						2,735.07
	Total Composite rate						5,798.07
							5,798.05

Item No. 12 - 7

Providing dressing and laying Ashlar Fine masonry in foundation, plinth and basement including scaffolding and curing.

Cu.m. a) In cement, sand mortar**i) 1 : 3**

1. Labour							
	Mason	(for dressing)	20.00	Hrs	@	125.00	2,500.00
	Mason	(stone work and setting)	20.00	Hrs	@	125.00	2,500.00
	Stone chiseller		50.10	Hrs	@	90.00	4,509.00
	Labourer		28.25	Hrs	@	87.50	2,471.88
	Black smith		2.82	Hrs	@	112.00	315.84
	Bellow boy		2.82	Hrs	@	87.50	246.75
	Bahishti		2.82	Hrs	@	87.50	246.75
	Mistri		5.50	Hrs	@	110.00	605.00
							13,395.22 (A)
	Contractor's profit & overhead					20%	2,679.04
	Total Labour rate						16,074.26
							16,074.25
2. Material							
	Building stone		2.36	Cu.m.	@	706.20	1,666.63
	Mild steel bars(G-40)		1.00	Kg.	@	88.00	88.00
	Charcoal		8.00	Kg.	@	15.00	120.00
							1,874.63
	Mortar		0.15	Cu.m.	@	6,099.30	914.90
							2,789.53
	Water charges					1.5%	41.85
							2,831.38
	3. Scaffolding and Sundries					5%	669.76
	Total of 2 & 3						3,501.14
	Contractor's profit & overhead					20%	700.23
	Total						4,201.37
	Total Composite rate						20,275.62
							20,275.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

ii) 1 : 4

1. Labour									
Same as item.12 - 7 (a)									13,395.22 (A)
Contractor's profit & overhead				20%					2,679.04
Total Labour rate									<u>16,074.26</u>
									16,074.25
2. Material									
Cost of stone, steel and charcoal									
Same as item.12 - 7 (a)									1,874.63
Mortar	0.15	Cu.m.	@	4,839.30					725.90
									<u>2,600.53</u>
Water charges					1.5%				39.02
									<u>2,639.54</u>
3. Scaffolding and Sundries									5%
									<u>669.76</u>
Total of 2 & 3									<u>3,309.30</u>
Contractor's profit & overhead					20%				661.86
Total									<u>3,971.16</u>
Total Composite rate									20,045.42
									20,045.40

iii) 1 : 6

1. Labour									
Same as item.12 - 7 (a)									13,395.22 (A)
Contractor's profit & overhead					20%				2,679.04
Total Labour rate									<u>16,074.26</u>
									16,074.25
2. Material									
Cost of stone, steel and charcoal									
Same as item.12 - 7 (a)									1,874.63
Mortar	0.15	Cu.m.	@	3,579.30					536.90
									<u>2,411.53</u>
Water charges					1.5%				36.18
									<u>2,447.71</u>
3. Scaffolding and Sundries									5%
									<u>803.71</u>
Total of 2 & 3									<u>3,251.42</u>
Contractor's profit & overhead					20%				650.28
Total									<u>3,901.70</u>
Total Composite rate									19,975.96
									19,975.95

Item No. 12 - 8

Providing dressing and laying Ashlar rough tooled or blocks in course masonry in foundation, plinth and basement including scaffolding and curing.

Cu.m. a) In cement, sand mortar

i) 1 : 3

1. Labour									
Mason (for dressing)	20.00	Hrs	@	125.00					2,500.00
Mason (stone work and setting)	30.00	Hrs	@	125.00					3,750.00
Stone chiseller	28.00	Hrs	@	90.00					2,520.00
Labourer	28.00	Hrs	@	87.50					2,450.00
Black smith	2.82	Hrs	@	112.00					315.84
Bellow boy	2.82	Hrs	@	87.50					246.75
Bahishti	2.82	Hrs	@	87.50					246.75
									<u>12,029.34 (A)</u>
Contractor's profit & overhead					20%				2,405.87

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		14,435.21	13,004.68
	2. Material			
	Building stone	5.65 Cu.m. @	706.20	3,990.03
	Mild steel bars(G-40)	0.53 Kg. @	88.00	46.64
	Charcoal	4.81 Kg. @	15.00	72.15
				<u>4,108.82</u>
	Mortar	0.23 Cu.m. @	6,099.30	1,402.84
				<u>5,511.66</u>
	Water charges		1.5%	82.68
				<u>5,594.34</u>
	3. Scaffolding and Sundries		5%	601.47
	Total of 2 & 3			<u>6,195.81</u>
	Contractor's profit & overhead		20%	1,239.16
	Total			<u>7,434.97</u>
	Total Composite rate		21,870.18	21,870.20
	ii) 1 : 4			
	1. Labour			
	Same as item.12 - 8 (a)			12,029.34 (A)
	Contractor's profit & overhead		20%	2,405.87
	Total Labour rate			<u>14,435.21</u>
				13,004.68
	2. Material			
	Cost of stone, steel and charcoal			
	Same as item.12 - 8 (a)			4,108.82
	Mortar	0.23 Cu.m. @	4,839.30	1,113.04
				<u>5,221.86</u>
	Water charges		1.5%	78.33
				<u>5,300.19</u>
	3. Scaffolding and Sundries		5%	601.47
	Total of 2 & 3			<u>5,901.66</u>
	Contractor's profit & overhead		20%	1,180.33
	Total Composite rate			<u>21,517.20</u>
				21,517.20
	iii) 1 : 6			
	1. Labour			
	Same as item.12 - 8 (a)			12,029.34 (A)
	Contractor's profit & overhead		20%	2,405.87
	Total Labour rate			<u>14,435.21</u>
				13,004.68
	2. Material			
	Cost of stone, steel and charcoal			
	Same as item.12 - 8 (a)			4,108.82
	Mortar	0.23 Cu.m. @	3,579.30	823.24
				<u>4,932.06</u>
	Water charges		1.5%	73.98
				<u>5,006.04</u>
	3. Scaffolding and Sundries		5%	601.47
	Total of 2 & 3			<u>5,607.51</u>
	Contractor's profit & overhead		20%	1,121.50
	Total			<u>6,729.01</u>
	Total Composite rate			<u>18,758.35</u>
				18,758.35

Item No. 12 - 9

Providing dressing and laying Ashlar rock rustic or quarry faced masonry in foundation, plinth and basement including scaffolding and curing.

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Cu.m. a) In cement, sand mortar**i) 1 : 3**

1. Labour

Mason	(for dressing)	24.00	Hrs	@	125.00	3,000.00
Mason	(stone work and setting)	20.00	Hrs	@	125.00	2,500.00
Stone chiseller		2.50	Hrs	@	90.00	225.00
Labourer		36.00	Hrs	@	87.50	3,150.00
Black smith		1.50	Hrs	@	112.00	168.00
Bellow boy		1.50	Hrs	@	87.50	131.25
Bahishti		2.00	Hrs	@	87.50	175.00
Mistri		1.50	Hrs	@	110.00	165.00

9,514.25 (A)

Contractor's profit & overhead

20% 1,902.85

Total Labour rate

11,417.10

9,833.85

2. Material

Building stone		1.20	Cu.m.	@	706.20	847.44
Mild steel bars(G-40)		0.35	Kg.	@	88.00	30.80
Charcoal		3.50	Kg.	@	15.00	52.50

930.74

Mortar 0.23 Cu.m. @ 6,099.30 1,415.04

2,345.78

Water Charges

1.5% 35.19

2,380.97

3. Scaffolding and Sundries

5% 475.71

Total of 2 & 3

2,856.68

Contractor's profit & overhead

20% 571.34

Total

3,428.02

Total Composite rate

14,845.12

14,205.84**ii) 1 : 4**

1. Labour

Same as item.12 - 9 (a)

9,514.25

Contractor's profit & overhead

20% 1,902.85

Total Labour rate

11,417.10

9,833.85

2. Material

Cost of stone, steel and charcoal

Same as item.12 - 9 (a)

930.74

Mortar 0.23 Hrs @ 4,839.30 1,122.72

2,053.46

Water Charges

1.5% 30.80

2,084.25

3. Scaffolding and Sundries

5% 475.71

Total of 2 & 3

2,559.97

Contractor's profit & overhead

20% 511.99

Total Composite rate

14,489.06

13,636.75**iii) 1 : 6**

1. Labour

Same as item.12 - 9 (a)

9,514.25

Contractor's profit & overhead

20% 1,902.85

Total Labour rate

11,417.10

9,833.85

2. Material

Cost of stone, steel and charcoal

Same as item.12 - 9 (a)

930.74

Mortar 0.23 Hrs @ 3,579.30 830.40

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
		1,761.14	
	Water Charges	1.5%	26.42
			1,787.55
	3. Scaffolding and Sundries	5%	475.71
	Total of 2 & 3		2,263.27
	Contractor's profit & overhead	20%	452.65
	Total Composite rate		14,133.02
			13,074.01

Item No. 12 - 10

Providing dressing and laying Ashlar chamfered masonry in foundation, plinth and basement including scaffolding and curing.

Cu.m. a) In cement, sand mortar**i) 1 : 3****1. Labour**

Mason	(for dressing)	14.00	Hrs	@	125.00	1,750.00
Mason	(for setting)	20.00	Hrs	@	125.00	2,500.00
Chiseller		40.00	Hrs	@	90.00	3,600.00
Labourer		36.00	Hrs	@	87.50	3,150.00
Black smith		1.50	Hrs	@	112.00	168.00
Bellow boy		1.50	Hrs	@	87.50	131.25
Bahishti		2.00	Hrs	@	87.50	175.00
Mistri		3.50	Hrs	@	110.00	385.00
						11,859.25 (A)
	Contractor's profit & overhead				20%	2,371.85
	Total Labour rate					14,231.10

11,430.60**2. Material**

Building stone		1.90	Cu.m.	@	706.20	1,341.78
Mild steel bars(G-40)		0.50	Kg.	@	88.00	44.00
Charcoal		6.00	Kg.	@	15.00	90.00
						1,475.78
Mortar		0.23	Cu.m.	@	6,099.30	1,372.34
						2,848.12
	Water Charges				1.5%	42.72
						2,890.84
	3. Scaffolding and Sundries				5%	592.96
	Total of 2 & 3					3,483.81
	Contractor's profit & overhead				20%	696.76
	Total Composite rate					18,411.67

18,411.65**ii) 1 : 4****1. Labour**

Same as item.12 - 10 (a)						11,859.25
Contractor's profit & overhead					20%	2,371.85
Total Labour rate						14,231.10

11,430.60**2. Material**

Cost of stone, steel and charcoal						1,475.78
Same as item.12 - 10 (a)						1,475.78
Mortar		0.23	Cu.m.	@	4,839.30	1,113.04
						2,588.82
	Water Charges				1.5%	38.84
						2,627.65
	3. Scaffolding and Sundries				5%	592.96
	Total of 2 & 3					3,220.62
	Contractor's profit & overhead				20%	644.12
Total						3,864.74

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Composite rate	18,095.84	18,095.85
iii) 1 : 6			
1. Labour			
	Same as item.12 - 10 (a)	11,859.25	
	Contractor's profit & overhead	20%	2,371.85
	Total Labour rate	14,231.10	11,430.60
2. Material			
	Cost of stone, steel and charcoal		1,475.78
	Same as item.12 - 10 (a)		
	Mortar	0.23 Cu.m. @ 3,579.30	823.24
			2,299.02
	Water Charges	1.5%	34.49
			2,333.50
	3. Scaffolding and Sundries	5%	592.96
	Total of 2 & 3		2,926.47
	Contractor's profit & overhead	20%	585.29
	Total		3,511.76
	Total Composite rate	17,742.86	17,742.85

Item No. 12 - 11

Providing dressing and laying Ashlar fine stone masonry in plain or chequered tread or risers of steps in course masonry in foundation, plinth basement & ground floor, including scaffolding and curing.

Cu.m. a) In cement, sand mortar**i) 1 : 3**

1. Labour

Mason	(for dressing)	16.00	Hrs	@	125.00	2,000.00
Mason	(for setting)	24.00	Hrs	@	125.00	3,000.00
Stone chiseller		52.00	Hrs	@	90.00	4,680.00
Labourer		60.00	Hrs	@	87.50	5,250.00
Black smith		2.50	Hrs	@	112.00	280.00
Bellow boy		2.50	Hrs	@	87.50	218.75
Bahishti		2.00	Hrs	@	87.50	175.00
Mistri		5.00	Hrs	@	110.00	550.00
						16,153.75 (A)
	Contractor's profit & overhead				20%	3,230.75
	Total Labour rate					19,384.50

13,142.03

2. Material

Building stone		1.90	Cu.m.	@	706.20	1,341.78
Mild steel bars(G-40)		0.75	Kg.	@	88.00	66.00
Charcoal		7.00	Kg.	@	15.00	105.00
						1,512.78
Mortar		0.15	Cu.m.	@	6,099.30	914.90
						2,427.68
	Water Charges				1.5%	36.42
						2,464.10
	3. Scaffolding and Sundries				5%	807.69
	Total of 2 & 3					3,271.78
	Contractor's profit & overhead				20%	654.36
	Total					3,926.14
	Total Composite rate					23,310.64

23,310.65**ii) 1 : 4**

1. Labour

Unit	Description	Component Cost		Unit Rate
			(Rs)	(Rs)
	Same as item.12 - 11 (a)		16,153.75	
	Contractor's profit & overhead	20%	3,230.75	
	Total Labour rate		19,384.50	13,142.03
	2. Material			
	Cost of stone, steel and charcoal			
	Same as item.12 - 11 (a)		1,512.78	
	Mortar	0.15 Cu.m. @	4,839.30	725.90
				2,238.68
	Water Charges	1.5%		33.59
				2,272.26
	3. Scaffolding and Sundries		5%	807.69
	Total of 2 & 3			3,079.95
	Contractor's profit & overhead	20%		615.99
	Total			3,695.94
	Total Composite rate		23,080.44	22,192.74
	iii) 1 : 6			
	1. Labour			
	Same as item.12 - 11 (a)		16,153.75	
	Contractor's profit & overhead	20%	3,230.75	
	Total Labour rate		19,384.50	13,142.03
	2. Material			
	Cost of stone, steel and charcoal			
	Same as item.12 - 11 (a)		1,512.78	
	Mortar	0.15 Cu.m. @	3,579.30	536.90
				2,049.68
	Water Charges	1.5%		30.75
				2,080.43
	3. Scaffolding and Sundries		5%	807.69
	Total of 2 & 3			2,888.11
	Contractor's profit & overhead	20%		577.62
	Total Composite rate		22,850.24	21,256.05
	Item No. 12 - 12			
	Providing, dressing and laying uncoursed rubble masonry in superstructure including scaffolding and curing in ground floor.			
	Cu.m. a) In mud mortar			
	1. Labour			
	Mason	8.00 Hrs @	125.00	1,000.00
	Labourer	10.00 Hrs @	87.50	875.00
	Stone chiseller	2.00 Hrs @	90.00	180.00
	Bahishti	1.00 Hrs @	87.50	87.50
	Mistri	0.50 Hrs @	110.00	55.00
				2,197.50 (A)
	Contractor's profit & overhead	20%		439.50
	Total Labour rate			2,637.00
				2,637.00
	2. Material			
	Same as in item 12 - 4 (a)			882.75
	3. Scaffolding and Sundries		5%	109.88
	Total of 2 & 3			992.63
	Contractor's profit & overhead	20%		198.53
	Total			1,191.15
	Total Composite rate		3,828.15	5,508.13
	Cu.m. b) In cement, sand mortar			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
i) 1 : 3				
1. Labour				
Mason	8.00 Hrs @	125.00	1,000.00	
Labourer	4.00 Hrs @	87.50	350.00	
Stone chiseller	12.00 Hrs @	90.00	1,080.00	
Bahishti	3.00 Hrs @	87.50	262.50	
Mistri	1.00 Hrs @	110.00	110.00	
			<u>2,802.50 (A)</u>	
Contractor's profit & overhead	20%		560.50	
Total Labour rate			<u>3,363.00</u>	3,363.00
2. Material				
Same as in item 12 - 4 (b)1			3,359.07	
3. Scaffolding and Sundries	5%		140.13	
Total of 2 & 3			<u>3,499.19</u>	
Contractor's profit & overhead	20%		699.84	
Total			<u>4,199.03</u>	
Total Composite rate			7,562.03	7,720.32
ii) 1 : 4				
1. Labour				
Same as item.12 - 12 (b)			2,802.50	
Contractor's profit & overhead	20%		560.50	
Total Labour rate			<u>3,363.00</u>	3,363.00
2. Material				
Same as in item 12 - 4 (b)2			2,860.74	
3. Scaffolding and Sundries	5%		140.13	
Total of 2 & 3			<u>3,000.87</u>	
Contractor's profit & overhead	20%		600.17	
Total			<u>3,601.04</u>	
Total Composite rate			6,964.04	7,095.31
iii) 1 : 6				
1. Labour				
Same as item.12 - 12 (b)			2,802.50	
Contractor's profit & overhead	20%		560.50	
Total Labour rate			<u>3,363.00</u>	3,363.00
2. Material				
Same as in item 12 - 4 (b)3			2,360.75	
3. Scaffolding and Sundries	5%		140.13	
Total of 2 & 3			<u>2,500.88</u>	
Contractor's profit & overhead	20%		500.18	
Total			<u>3,001.05</u>	
Total Composite rate			6,364.05	6,480.70
iv) 1 : 8				
1. Labour				
Same as item.12 - 12 (b)			2,802.50	
Contractor's profit & overhead	20%		560.50	
Total Labour rate			<u>3,363.00</u>	3,363.00
2. Material				
Same as in item 12 - 4 (b)4			2,103.71	
3. Scaffolding and Sundries	5%		140.13	
Total of 2 & 3			<u>2,243.84</u>	
Contractor's profit & overhead	20%		448.77	
Total			<u>2,692.60</u>	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	6,055.60	6,391.13
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Item No. 12 - 13

Providing, dressing and laying coursed rubble masonry in superstructure including scaffolding and curing in ground floor (steel reinforcement if used will be paid separately)

Cu.m. a) In mud mortar

1. Labour

Mason	(for dressing)	10.00	Hrs	@	125.00	1,250.00
Mason	(for setting)	4.00	Hrs	@	125.00	500.00
Stone chiseller		8.00	Hrs	@	90.00	720.00
Labourer		12.00	Hrs	@	87.50	1,050.00
Bahishti		1.50	Hrs	@	87.50	131.25
Mistri		0.35	Hrs	@	110.00	38.50
						<u>3,689.75 (A)</u>

Contractor's profit & overhead	20%	737.95
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Total Labour rate	4,427.70	4,427.70
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2. Material

Same as in item 12 - 5 (a)	2,058.80
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3. Scaffolding and Sundries	5%	184.49
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Total of 2 & 3	<u>2,243.29</u>
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Contractor's profit & overhead	20%	448.66
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Total	<u>2,691.95</u>
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Total Composite rate	7,119.65	7,119.65
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Cu.m. b) In cement, sand mortar**i) 1 : 3**

1. Labour

Mason	(for dressing)	8.00	Hrs	@	125.00	1,000.00
Mason	(for setting)	4.00	Hrs	@	125.00	500.00
Stone chiseller		8.00	Hrs	@	90.00	720.00
Labourer		16.00	Hrs	@	87.50	1,400.00
Bahishti		2.00	Hrs	@	87.50	175.00
Mistri		0.35	Hrs	@	110.00	38.50
						<u>3,833.50 (A)</u>

Contractor's profit & overhead	20%	766.70
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Total Labour rate	4,600.20	4,600.20
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2. Material

Same as in item 12 - 5 (b)1	4,041.51
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3. Scaffolding and Sundries	5%	191.68
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Total of 2 & 3	<u>4,233.18</u>
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Contractor's profit & overhead	20%	846.64
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Total	<u>5,079.82</u>
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Total Composite rate	9,680.02	9,059.43
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ii) 1 : 4

1. Labour

Same as in item 12 - 13 (b)	3,833.50
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Contractor's profit & overhead	20%	766.70
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Total Labour rate	4,600.20	4,600.20
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2. Material

Same as in item 12 - 5 (b)2	3,619.47
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3. Scaffolding and Sundries	5%	191.68
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Total of 2 & 3	<u>3,811.14</u>
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	762.23	
Total		4,573.37	
Total Composite rate		9,173.57	8,301.86

iii) 1 : 6

1. Labour			
Same as in item 12 - 13 (b)		3,833.50	
Contractor's profit & overhead	20%	766.70	
Total Labour rate		4,600.20	4,600.20

2. Material			
Same as in item 12 - 5 (b)3		3,197.43	
3. Scaffolding and Sundries	5%	191.68	
Total of 2 & 3		3,389.11	
Contractor's profit & overhead	20%	677.82	
Total		4,066.93	
Total Composite rate		8,667.13	7,439.61

iv) 1 : 8

1. Labour			
Same as in item 12 - 13 (b)		3,833.50	
Contractor's profit & overhead	20%	766.70	
Total Labour rate		4,600.20	4,600.20

2. Material			
Same as in item 12 - 5 (b)4		2,986.41	
3. Scaffolding and Sundries	5%	191.68	
Total of 2 & 3		3,178.09	
Contractor's profit & overhead	20%	635.62	
Total		3,813.71	
Total Composite rate		8,413.91	7,348.38

Item No. 12 - 14

Providing, dressing and laying random rubble stone masonry in superstructure including scaffolding and curing in ground floor.

Cu.m. a) In mud mortar

1. Labour						
Mason (for dressing)	15.00	Hrs	@	125.00	1,875.00	
Mason (for setting)	4.00	Hrs	@	125.00	500.00	
Stone chiseller	4.00	Hrs	@	90.00	360.00	
Labourer	15.00	Hrs	@	87.50	1,312.50	
Bahishti	1.50	Hrs	@	87.50	131.25	
Mistri	0.35	Hrs	@	110.00	38.50	
					4,217.25 (A)	
Contractor's profit & overhead				20%	843.45	
Total Labour rate					5,060.70	5,060.70

2. Material						
Same as in item 12 - 6 (a)1					1,136.48	
3. Scaffolding and Sundries				5%	210.86	
Total of 2 & 3					1,347.34	
Contractor's profit & overhead				20%	269.47	
Total					1,616.81	
Total Composite rate					6,677.51	7,419.44

Cu.m. b) In cement, sand mortar

i) 1 : 3

Unit	Description	Component Cost		Unit Rate
			(Rs)	(Rs)
1. Labour				
Mason	(for dressing)	12.00 Hrs @	125.00	1,500.00
Mason	(for setting)	4.00 Hrs @	125.00	500.00
Stone chiseller		4.00 Hrs @	90.00	360.00
Labourer		18.00 Hrs @	87.50	1,575.00
Bahishti		3.00 Hrs @	87.50	262.50
Mistri		0.35 Hrs @	110.00	38.50
				<u>4,236.00</u>
Contractor's profit & overhead		20%	847.20	
Total Labour rate			<u>5,083.20</u>	4,642.19
2. Material				
Same as in item 12 - 6 (b)1				3,239.69
3. Scaffolding and Sundries		5%	211.80	
Total of 2 & 3			<u>3,451.49</u>	
Contractor's profit & overhead		20%	690.30	
Total			<u>4,141.78</u>	
Total Composite rate			9,224.98	8,440.07
ii) 1 : 4				
1. Labour				
Same as in item 12 - 14 (b)				4,236.00
Contractor's profit & overhead		20%	847.20	
Total Labour rate			<u>5,083.20</u>	4,642.19
2. Material				
Same as in item 12 - 6 (b)2				2,823.02
3. Scaffolding and Sundries		5%	211.80	
Total of 2 & 3			<u>3,034.82</u>	
Contractor's profit & overhead		20%	606.96	
Total			<u>3,641.78</u>	
Total Composite rate			8,724.98	7,931.82
iii) 1 : 6				
1. Labour				
Same as in item 12 - 14 (b)				4,236.00
Contractor's profit & overhead		20%	847.20	
Total Labour rate			<u>5,083.20</u>	4,642.19
2. Material				
Same as in item 12 - 6 (b)3				2,375.40
3. Scaffolding and Sundries		5%	211.80	
Total of 2 & 3			<u>2,587.20</u>	
Contractor's profit & overhead		20%	517.44	
Total			<u>3,104.64</u>	
Total Composite rate			8,187.84	7,376.44
iv) 1 : 8				
1. Labour				
Same as in item 12 - 14 (b)				4,236.00
Contractor's profit & overhead		20%	847.20	
Total Labour rate			<u>5,083.20</u>	4,642.19
2. Material				
Same as in item 12 - 6 (b)4				2,151.60
3. Scaffolding and Sundries		5%	211.80	
Total of 2 & 3			<u>2,363.40</u>	
Contractor's profit & overhead		20%	472.68	
Total			<u>7,919.28</u>	7,070.80

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 12 - 15

Providing, dressing and laying ashlar fine masonry in superstructure including scaffolding and curing in ground floor.

Cu.m. a) In cement, sand mortar**i) 1 : 3**

1. Labour

Mason	(for dressing)	36.00	Hrs	@	125.00	4,500.00
Mason	(for setting)	36.00	Hrs	@	125.00	4,500.00
Chiseller		64.00	Hrs	@	90.00	5,760.00
Helper		8.00	Hrs	@	75.00	600.00
Labourer		32.00	Hrs	@	87.50	2,800.00
Black smith		3.00	Hrs	@	112.00	336.00
Bellow boy		3.00	Hrs	@	87.50	262.50
Bahishti		3.00	Hrs	@	87.50	262.50
Mistri		8.00	Hrs	@	110.00	880.00

19,901.00 (A)

Contractor's profit & overhead

20% 3,980.20

Total Labour rate

23,881.20

13,267.33

2. Material

Same as in item 12 - 7 (a)1

2,831.38

3. Scaffolding and Sundries

5% 995.05

Total of 2 & 3

3,826.43

Contractor's profit & overhead

20% 765.29

Total

4,591.71

Total Composite rate

28,472.91

22,814.82**ii) 1 : 4**

1. Labour

Same as in item 12 - 15 (a) 1

19,901.00

Contractor's profit & overhead

20% 3,980.20

Total Labour rate

23,881.20

13,267.33

2. Material

Same as in item 12 - 6 (a)2

2,639.54

3. Scaffolding and Sundries

5% 995.05

Total of 2 & 3

3,634.59

Contractor's profit & overhead

20% 726.92

Total

4,361.51

Total Composite rate

28,242.71

22,388.19**iii) 1 : 6**

1. Labour

Same as in item 12 - 15 (a) 1

19,901.00

Contractor's profit & overhead

20% 3,980.20

Total Labour rate

23,881.20

13,267.33

2. Material

Same as in item 12 - 7 (a)3

2,447.71

3. Scaffolding and Sundries

5% 995.05

Total of 2 & 3

3,442.76

Contractor's profit & overhead

20% 688.55

Total

4,131.31

Total Composite rate

28,012.51

21,269.93**Item No. 12 - 16**

Providing, dressing and laying ashlar rough tooled or blocks in course masonry in

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

superstructure including scaffolding and curing in ground floor.

Cu.m. a) In cement, sand mortar

i) 1 : 3

1. Labour

Mason	(for dressing)	12.00	Hrs	@	125.00	1,500.00
Mason	(for setting)	20.00	Hrs	@	125.00	2,500.00
Chiseller		28.00	Hrs	@	90.00	2,520.00
Helper		5.50	Hrs	@	75.00	412.50
Labourer		40.00	Hrs	@	87.50	3,500.00
Black smith		1.50	Hrs	@	112.00	168.00
Bellow boy		1.50	Hrs	@	87.50	131.25
Bahishti		2.50	Hrs	@	87.50	218.75
Mistri		2.75	Hrs	@	110.00	302.50

11,253.00 (A)

Contractor's profit & overhead 20% 2,250.60

Total Labour rate 13,503.60

8,439.75

2. Material

Same as in item 12 - 8 (a)1 5,594.34

3. Scaffolding and Sundries 5% 562.65

Total of 2 & 3 6,156.99

Contractor's profit & overhead 20% 1,231.40

Total 7,388.39

Total Composite rate 20,891.99

18,898.24

ii) 1 : 4

1. Labour

Same as in item 12 - 16 (a) 1 11,253.00

Contractor's profit & overhead 20% 2,250.60

Total Labour rate 13,503.60

8,439.75

2. Material

Same as in item 12 - 8 (a)2 5,300.19

3. Scaffolding and Sundries 5% 562.65

Total of 2 & 3 5,862.84

Contractor's profit & overhead 20% 1,172.57

Total 7,035.41

Total Composite rate 20,539.01

18,503.60

iii) 1 : 6

1. Labour

Same as in item 12 - 16 (a) 1 11,253.00

Contractor's profit & overhead 20% 2,250.60

Total Labour rate 13,503.60

8,439.75

2. Material

Same as in item 12 - 8 (a)3 5,006.04

3. Scaffolding and Sundries 5% 562.65

Total of 2 & 3 5,568.69

Contractor's profit & overhead 20% 1,113.74

Total 6,682.43

Total Composite rate 20,186.03

16,084.50

Item No. 12 - 17

Providing, dressing and laying ashlar rock rustic or guary faced masonry in superstructure including scaffolding and curing in ground floor.

Cu.m. a) In cement, sand mortar

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

i) 1 : 3

1. Labour				
Mason	(for dressing)	24.00 Hrs @	125.00	3,000.00
Mason	(for setting)	20.00 Hrs @	125.00	2,500.00
Chiseller		2.50 Hrs @	90.00	225.00
Helper		5.50 Hrs @	75.00	412.50
Labourer		40.00 Hrs @	87.50	3,500.00
Black smith		1.50 Hrs @	112.00	168.00
Bellow boy		1.50 Hrs @	87.50	131.25
Bahishti		2.50 Hrs @	87.50	218.75
Mistri		1.50 Hrs @	110.00	165.00
				<u>10,320.50 (A)</u>
Contractor's profit & overhead		20%		2,064.10
Total Labour rate				<u>12,384.60</u>
				8,256.40
2. Material				
Same as in item 12 - 9 (a)1				2,380.97
3. Scaffolding and Sundries				5%
Total of 2 & 3				516.03
Contractor's profit & overhead				20%
Total				2,896.99
Total Composite rate				<u>579.40</u>
				3,476.39
				<u>15,860.99</u>
				15,908.73

ii) 1 : 4

1. Labour				
Same as in item 12 - 17 (a) 1				10,320.50
Contractor's profit & overhead				20%
Total Labour rate				<u>2,064.10</u>
				12,384.60
				8,256.40
2. Material				
Same as in item 12 - 9 (a)2				2,084.25
3. Scaffolding and Sundries				5%
Total of 2 & 3				516.03
Contractor's profit & overhead				20%
Total				<u>2,600.28</u>
Total Composite rate				520.06
				3,120.33
				<u>15,504.93</u>
				15,275.81

iii) 1 : 6

1. Labour				
Same as in item 12 - 17 (a) 1				10,320.50
Contractor's profit & overhead				20%
Total Labour rate				<u>2,064.10</u>
				12,384.60
				8,256.40
2. Material				
Same as in item 12 - 9 (a)3				1,787.55
3. Scaffolding and Sundries				5%
Total of 2 & 3				516.03
Contractor's profit & overhead				20%
Total				<u>2,303.58</u>
Total Composite rate				460.72
				2,764.29
				<u>15,148.89</u>
				14,636.62

Item No. 12 - 18

Providing, dressing and laying ashlar fine chamfered masonry in superstructure including scaffolding and curing in ground floor.

Cu.m. a) In cement, sand mortar

i) 1 : 3

1. Labour				
Mason	(for dressing)	14.86 Hrs @	125.00	1,857.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Mason	(for setting)	20.00	Hrs @ 125.00	2,500.00
Chiseller		40.00	Hrs @ 90.00	3,600.00
Helper		5.50	Hrs @ 75.00	412.50
Labourer		40.00	Hrs @ 87.50	3,500.00
Black smith		1.50	Hrs @ 112.00	168.00
Bellow boy		1.50	Hrs @ 87.50	131.25
Bahishti		2.50	Hrs @ 87.50	218.75
Mistri		4.00	Hrs @ 110.00	440.00
				<u>12,828.00 (A)</u>
Contractor's profit & overhead		20%		2,565.60
Total Labour rate				<u>15,393.60</u> 11,114.51
2. Material				
Same as in item 12 - 10 (a)1				2,890.84
3. Scaffolding and Sundries		5%		641.40
Total of 2 & 3				<u>3,532.24</u>
Contractor's profit & overhead		20%		706.45
Total				<u>4,238.69</u>
Total Composite rate				<u>19,632.29</u> 19,961.67
ii) 1 : 4				
1. Labour				
Same as in item 12 - 18 (a)1				12,828.00
Contractor's profit & overhead		20%		2,565.60
Total Labour rate				<u>15,393.60</u> 11,114.51
2. Material				
Same as in item 12 - 10 (a)2				2,084.25
3. Scaffolding and Sundries		5%		641.40
Total of 2 & 3				<u>2,725.65</u>
Contractor's profit & overhead		20%		545.13
Total				<u>3,270.78</u>
Total Composite rate				<u>18,664.38</u> 20,476.58
iii) 1 : 6				
1. Labour				
Same as in item 12 - 18 (a)1				12,828.00
Contractor's profit & overhead		20%		2,565.60
Total Labour rate				<u>15,393.60</u> 11,114.51
2. Material				
Same as in item 12 - 10 (a)3				2,333.50
3. Scaffolding and Sundries		5%		641.40
Total of 2 & 3				<u>2,974.90</u>
Contractor's profit & overhead		20%		594.98
Total				<u>3,569.88</u>
Total Composite rate				<u>18,963.48</u> 19,164.73

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 12 - 19

Providing, dressing and laying ashlar fine stone masonry punched work in superstructure including scaffolding and curing in ground floor. (Gross measurement will be made).

Cu.m. a) In cement, sand mortar**i) 1 : 3**

1. Labour

Mason	(for dressing)	20.23	Hrs	@	125.00	2,528.75
Mason	(for setting)	20.00	Hrs	@	125.00	2,500.00
Chiseller		100.00	Hrs	@	90.00	9,000.00
Helper		5.50	Hrs	@	75.00	412.50
Labourer		32.00	Hrs	@	87.50	2,800.00
Black smith		2.50	Hrs	@	112.00	280.00
Bellow boy		2.50	Hrs	@	87.50	218.75
Bahishti		2.00	Hrs	@	87.50	175.00
Mistri		8.00	Hrs	@	110.00	880.00
						<u>18,795.00 (A)</u>
Contractor's profit & overhead				20%		3,759.00
Total Labour rate						<u>22,554.00</u>

12,191.35

2. Material

Building stone		2.83	Cu.m.	@	706.20	1,998.55
Mild steel bars(G-40)		1.00	Kg.	@	88.00	88.00
Charcoal		8.00	Kg.	@	15.00	120.00
						<u>2,206.55</u>
Mortar		0.15	Cu.m.	@	6,099.30	914.90
Water Charges				1.5%		46.82
						<u>3,168.26</u>
3. Scaffolding and Sundries				5%		939.75
Total of 2 & 3						<u>4,108.01</u>
Contractor's profit & overhead				20%		821.60
Total Composite rate						<u>27,483.62</u>

24,985.09**ii) 1 : 4**

1. Labour

Same as in item 12 - 19 (a)1						18,795.00
Contractor's profit & overhead				20%		3,759.00
Total Labour rate						<u>22,554.00</u>

12,191.35

2. Material

Cost of stone, steel & cha	Same as item 12 - 19 (a)1					2,206.55
Mortar		0.15	Cu.m.	@	4,839.30	725.90
Water Charges				1.5%		43.99
						<u>2,976.43</u>
3. Scaffolding and Sundries				5%		939.75
Total of 2 & 3						<u>3,916.18</u>
Contractor's profit & overhead				20%		783.24
Total Composite rate						<u>27,253.41</u>

23,698.61**iii) 1 : 6**

1. Labour

Same as in item 12 - 19 (a)1						18,795.00
Contractor's profit & overhead				20%		3,759.00
Total Labour rate						<u>22,554.00</u>

12,191.35

2. Material

Cost of stone, steel & cha	Same as item 12 - 19 (a)1					2,206.55
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Mortar	0.15 Cu.m. @	3,579.30	536.90
Water Charges		1.5%	41.15
			<u>2,784.59</u>
3. Scaffolding and Sundries		5%	939.75
Total of 2 & 3			<u>3,724.34</u>
Contractor's profit & overhead		20%	744.87
Total Composite rate			<u>27,023.21</u>
			23,295.86

Item No. 12 - 20

Providing, dressing and laying ashlar fine stone masonry in sink or moulded work upto & sectional area of 50 Sq.in. (325 Sq.cm) in cornice, coping and architrave etc. in superstructure including scaffolding and curing in ground floor.

Detail of cost for 87.50 R.M.

Considering cornice 87.50 R.M. long and having cross sectional area of 50 Sq. in. (325 Sq. cm.)

Content 87.50 x 325/100/100 2.84 Cu.m.

Stone required before chiselling will be thrice the quantity due to 3 x 2.84 wastage etc. 8.53 Cu.m.

R.M. a) In cement, sand mortar**i) 1 : 3****1. Labour**

Mason (for dressing)	72.00	Hrs	@	125.00	9,000.00
Mason (for setting)	80.00	Hrs	@	125.00	10,000.00
Stone chiseller	190.00	Hrs	@	90.00	17,100.00
Helper	20.00	Hrs	@	75.00	1,500.00
Labourer	124.00	Hrs	@	87.50	10,850.00
Black smith	8.00	Hrs	@	112.00	896.00
Bellow boy	8.00	Hrs	@	87.50	700.00
Bahishti	8.00	Hrs	@	87.50	700.00
Mistri	16.00	Hrs	@	110.00	1,760.00
					<u>52,506.00 (A)</u>
Contractor's profit & overhead				20%	10,501.20
Total					<u>63,007.20</u>
Total Labour rate per meter					720.08
					496.62

2. Material without mortar & water charges

Building stone	8.53	Cu.m.	@	706.20	6,023.89
Mild steel bars(G-40)	2.50	Kg.	@	88.00	220.00
Charcoal	25.00	Kg.	@	15.00	375.00
					<u>6,618.89</u>
Mortar	0.15	Cu.m.	@	6,099.30	914.90
Water Charges				1.5%	113.01
					<u>7,646.79</u>
Scaffolding and Sundries				5%	2,625.30
Total of 2 & 3					10,272.09
Contractor's profit & overhead				20%	2,054.42
Total					<u>12,326.51</u>
Total Composite rate per meter	/ 87.50				860.96
					860.95

ii) 1 : 4**1. Labour**

Same as in item 12 - 20 (a)1					600.07
Contractor's profit & overhead				20%	120.01
Total Labour rate					<u>720.08</u>
					496.62

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	Cost of stone,steel & charcoal, Same as in item 12 - 20 (a)1			6,618.89
	Mortar	0.15	Cu.m. @	4,839.30
	Water Charges		1.5%	725.90
				110.17
				<u>7,454.95</u>
3. Scaffolding and Sundries			5%	30.00
	Total of 2 & 3			7,484.96
	Contractor's profit & overhead		20%	1,496.99
	Total			<u>8,981.95</u>
	Total Composite rate per meter	/ 87.50		822.73
				822.75

iii) 1 : 6

1. Labour				
	Same as in item 12 - 20 (a)1			600.07
	Contractor's profit & overhead		20%	120.01
	Total Labour rate			<u>720.08</u>
				496.62
2. Material				
	Cost of stone,steel & charcoal, Same as in item 12 - 20 (a)1			6,618.89
	Mortar	0.15	Cu.m. @	3,579.30
	Water Charges		1.5%	536.90
				107.34
				<u>7,263.12</u>
3. Scaffolding and Sundries			5%	30.00
	Total of 2 & 3			7,293.12
	Contractor's profit & overhead		20%	1,458.62
	Total			<u>8,751.75</u>
	Total Composite rate per meter	/ 87.50		820.10
				820.10

Item No. 12 - 21

Providing, dressing and laying ashlar fine stone masonry in sink or moulded work above sectional area of 50 sq.in. to 100 sq.in. (325 sq.cm to 650 sq.cm) in cornice, coping and architrave etc. in superstructure including scaffolding and curing in ground floor.

Detail of Cost for 44 R.M.

Considering cornice 44 R.M. long and having cross sectional area of 100 Sq. in. (650 Sq. cm.)

Content 44 x 625/100/100 2.86 Cu.m.

Stone required before chiselling will be 2.75 times the quantity due to wastage etc. 7.87 Cu.m.

R.M. a) In cement, sand mortar

i) 1 : 3

1. Labour				
	Mason	96.00	Hrs @	125.00
	Mason	40.00	Hrs @	125.00
	Stone chiseller	224.00	No. @	90.00
	Helper	20.00	Hrs @	75.00
	Labourer	128.00	Hrs @	87.50
	Black smith	8.00	Hrs @	112.00
	Bellow boy	8.00	Hrs @	87.50
	Bahishti	8.00	Hrs @	87.50
	Mistri	16.00	Hrs @	110.00
				<u>1,760.00</u>
				53,916.00 (A)
	Contractor's profit & overhead		20%	10,783.20
	Total			<u>64,699.20</u>
	Total Labour rate per meter			1,470.44
				1,014.10
2. Material				
	Building stone	7.86	Cu.m. @	706.20
	Mild steel bars(G-40)	2.50	Kg. @	88.00
				5,550.73
				220.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Charcoal	25.00	Kg. @ 15.00	375.00
				6,145.73
	Mortar	0.15	Cu.m. @ 6,099.30	914.90
	Water Charges		1.5%	105.91
				7,166.54
	Scaffolding and Sundries		5%	2,695.80
	Total of 2 & 3			9,862.34
	Contractor's profit & overhead		20%	1,972.47
	Total			11,834.80
	Total Composite rate per meter	/ 44		1,739.41
				1,739.40
ii) 1 : 4				
1. Labour				
	Same as in item 12 - 21 (a)1			1,225.36
	Contractor's profit & overhead		20%	245.07
	Total Labour rate			1,470.44
				1,014.10
2. Material				
	Cost of stone, steel & charcoal, Same as in item 12 - 21 (a)1			6,145.73
	Mortar	0.15	Cu.m. @ 4,839.30	725.90
	Water Charges		1.5%	103.07
				6,974.70
	3. Scaffolding and Sundries		5%	61.27
	Total of 2 & 3			7,035.97
	Contractor's profit & overhead		20%	1,407.19
	Total			8,443.16
	Total Composite rate per meter	/ 44		1,662.33
				1,662.35
iii) 1 : 6				
1. Labour				
	Same as in item 12 - 21 (a)1			1,225.36
	Contractor's profit & overhead		20%	245.07
	Total Labour rate			1,470.44
				1,014.10
2. Material				
	Cost of stone, steel & charcoal, Same as in item 12 - 21 (a)1			6,145.73
	Mortar	0.15	Cu.m. @ 3,579.30	536.90
	Water Charges		1.5%	100.24
				6,782.87
	3. Scaffolding and Sundries		5%	61.27
	Total of 2 & 3			6,844.13
	Contractor's profit & overhead		20%	1,368.83
	Total			8,212.96
	Total Composite rate per meter	/44		1,657.09
				1,657.10

Item No. 12 - 22**Dressing stones (Dressed face shall be considered for measurement).****Sq.m. a) Random rubble hammer dressed**

Considering the thickness of wall as 13-1/2" the surface area of both side of wall is worked out as under:

$$35.31 / 1.125 \times 2 = 62.77 \text{ sft.}$$

1. Labour

Mason	16.00	Hrs	@	125.00	2,000.00
Chiseller	8.00	Hrs	@	90.00	720.00
Labourer	8.00	Hrs	@	87.50	700.00
					3,420.00
Contractor's profit & overhead			20%		684.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Total			4,104.00	
Total Labour rate per sq. 820.5 x 10.76/62.5			824.30	824.30
2. Sundries for Charcoal, Steel etc.		10%	342.00	
Contractor's profit & overhead		20%	68.40	
Total			<u>410.40</u>	
Total Composite rate per sq.m.			894.96	894.95
Sq.m. b) Ashlar rough tool dressed				
1. Labour				
Mason	16.00	Hrs	@ 125.00	2,000.00
Chiseller	32.00	Hrs	@ 90.00	2,880.00
Labourer	24.00	Hrs	@ 87.50	2,100.00
Black smith	4.00	Hrs	@ 112.00	448.00
Bellow boy	4.00	Hrs	@ 87.50	350.00
				<u>7,778.00</u>
Contractor's profit & overhead		20%	1,555.60	
Total			<u>9,333.60</u>	
Labour rate per sq.m. 1719 x 10.76/62.5			1,606.87	1,606.85
2. Material				
Mild steel bars(G-40)	0.50	Kg.	@ 88.00	44.00
Charcoal	6.00	Kg.	@ 15.00	90.00
				<u>134.00</u>
3. Sundries			2.5%	194.45
Total of 2 & 3				<u>328.45</u>
Contractor's profit & overhead		20%	65.69	
Total Composite rate per sq.m.			<u>1,674.73</u>	1,674.75
Sq.m. c) Ashlar chisel dressed				
1. Labour				
Mason	24.00	Hrs	@ 125.00	3,000.00
Chiseller	32.00	Hrs	@ 90.00	2,880.00
Labourer	24.00	Hrs	@ 87.50	2,100.00
Black smith	8.00	Hrs	@ 112.00	896.00
Bellow boy	8.00	Hrs	@ 87.50	700.00
				<u>9,576.00</u>
Contractor's profit & overhead		20%	1,915.20	
Total			<u>11,491.20</u>	
Labour rate per sq.m. 1864.5 x 10.76/62.5			1,978.32	1,978.30
2. Material				
Mild steel bars(G-40)	1.00	Kg.	@ 88.00	88.00
Charcoal	8.00	Kg.	@ 15.00	120.00
				<u>208.00</u>
3. Sundries			2.5%	239.40
Total of 2 & 3				<u>447.40</u>
Contractor's profit & overhead		20%	89.48	
Total Composite rate per sq.m.			<u>2,070.61</u>	2,070.60
Sq.m. d) Ashlar fine dressed				
1. Labour				
Mason	60.00	Hrs	@ 125.00	7,500.00
Chiseller	48.00	Hrs	@ 90.00	4,320.00
Labourer	36.00	Hrs	@ 87.50	3,150.00
Black smith	24.00	Hrs	@ 112.00	2,688.00
Bellow boy	16.00	Hrs	@ 87.50	1,400.00
Mistri	16.00	Hrs	@ 110.00	1,760.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			20,818.00	
	Contractor's profit & overhead	20%	4,163.60	
	Total		24,981.60	
	Labour rate per sq.m.	1864.5 x 10.76/62.5	4,300.83	4,300.85
	2. Material			
	Mild steel bars(G-40)	1.00 Kg. @	88.00	88.00
	Charcoal	8.00 Kg. @	15.00	120.00
			208.00	
	3. Sundries	2.5%	67.20	
	Total of 2 & 3		275.20	
	Contractor's profit & overhead	20%	55.04	
	Total Composite rate per sq.m.		4,357.69	4,357.70

Item No. 12 - 23

Cu.m. Extra for providing, dressing and laying stone masonry for arches of any kind of walls including scaffolding, formwork and its removal, raking out joints and curing.

1. Labour				
	Mason	4.00 Hrs @	125.00	500.00
	Labourer	4.00 Hrs @	87.50	350.00
			850.00	
	Contractor's profit & overhead	20%	170.00	
	Total Labour rate		1,020.00	1,020.00
2. Scaffolding and sundries				
	Formwork : Same as in item 10 - 4(c)		5%	42.50
			412.40	
			454.90	
	Contractor's profit & overhead	20%	90.98	
	Total		545.88	
	Total Composite rate		1,565.88	1,565.90

Item No. 12 - 24

Cu.m. a) Extra for first floor over item No.12 - 11 to 12 - 14

1. Labour				
	Mason	1.50 Hrs @	125.00	187.50
	Labourer	5.00 Hrs @	87.50	437.50
	Bahishti	0.75 Hrs @	87.50	65.63
			690.63	
	Contractor's profit & overhead	20%	138.13	
	Total Labour rate		828.75	828.75
Scaffolding and sundries				
	Contractor's profit & overhead	5%	34.53	
	Contractor's profit & overhead	20%	6.91	
	Total		41.44	
	Total Composite rate		870.19	870.20

Cu.m. b) Extra for every additional floor above first floor on item 12 - 24 (a)

1. Labour				
	Mason	1.65 Hrs @	125.00	206.25
	Labourer	2.75 Hrs @	87.50	240.63
	Bahishti	0.85 Hrs @	87.50	74.38
			521.25	
	Contractor's profit & overhead	20%	104.25	
	Total Labour rate		625.50	625.50
2. Scaffolding and sundries				
	Contractor's profit & overhead	5%	26.06	
	Contractor's profit & overhead	20%	5.21	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total		31.28	
Total Composite rate		656.78	656.80

Item No. 12 - 25**Cu.m. a) Extra for first floor over item No.12 - 15 to 12 - 18.**

1. Labour						
Mason	2.00	Hrs	@	125.00	250.00	
Helper	1.50	Hrs	@	75.00	112.50	
Labourer	5.00	Hrs	@	87.50	437.50	
Bahishti	0.75	Hrs	@	87.50	65.63	
					865.63	
Contractor's profit & overhead				20%	173.13	
Total Labour rate					1,038.75	1,038.75
2. Scaffolding and sundries				5%	43.28	
Contractor's profit & overhead				20%	8.66	
Total					51.94	
Total Composite rate					1,090.69	1,090.70

Cu.m. b) Extra for every additional floor above first floor on item 12 - 25 (a)

1. Labour						
Mason	2.25	Hrs	@	125.00	281.25	
Helper	1.75	Hrs	@	75.00	131.25	
Labourer	0.75	Hrs	@	87.50	65.63	
Bahishti	0.85	Hrs	@	87.50	74.38	
					552.50	
Contractor's profit & overhead				20%	110.50	
Total Labour rate					663.00	663.00
2. Scaffolding and sundries				5%	27.63	
Contractor's profit & overhead				20%	5.53	
Total					33.15	
Total Composite rate					696.15	696.15

Item No. 12 - 26**Cu.m. a) Extra for punched work in first floor on item No.12 - 19.**

1. Labour						
Mason	2.00	Hrs	@	125.00	250.00	
Labourer	5.00	Hrs	@	87.50	437.50	
Bahishti	0.75	Hrs	@	87.50	65.63	
					753.13	
Contractor's profit & overhead				20%	150.63	
Total Labour rate					903.75	903.75
2. Scaffolding and sundries				5%	37.66	
Contractor's profit & overhead				20%	7.53	
Total					45.19	
Total Composite rate					948.94	948.95

Cu.m. b) Extra for every additional floor above first floor on item 12 - 26 (a).

1. Labour						
Mason	2.25	Hrs	@	125.00	281.25	
Labourer	2.25	Hrs	@	87.50	196.88	
Bahishti	0.85	Hrs	@	87.50	74.38	
					552.50	
Contractor's profit & overhead				20%	110.50	
Total Labour rate					663.00	663.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Scaffolding and sundries	5%	27.63	
	Contractor's profit & overhead	20%	5.53	
	Total		33.15	
	Total Composite rate		696.15	696.15
Item No. 12 - 27				
R.M. a) Extra for first floor on item 12 - 20.				
Detail of Cost for 87.50 R.M.				
1. Labour				
	Mason	1.50	Hrs @ 125.00	187.50
	Labourer	5.00	Hrs @ 87.50	437.50
	Bahishti	0.75	Hrs @ 87.50	65.63
				690.63
	Contractor's profit & overhead		20%	138.13
	Total			828.75
	Total Labour rate per R.M.	828.75	/87.5	9.47
				9.45
	2. Scaffolding and sundries	5%	34.53	
	Contractor's profit & overhead	20%	6.91	
	Total		41.44	
	Total Composite rate per R. M.		9.95	9.95
R.M. b) Extra for every additional floor above first floor on item 12 - 27 (a).				
1. Labour				
	Mason	1.65	Hrs @ 125.00	206.25
	Labourer	2.75	Hrs @ 87.50	240.63
	Bahishti	0.85	Hrs @ 87.50	74.38
				521.25
	Contractor's profit & overhead		20%	104.25
	Total			625.50
	Total Labour rate per R.M.	625.50	/87.5	7.15
				7.15
	2. Scaffolding and sundries	5%	26.06	
	Contractor's profit & overhead	20%	5.21	
	Total		31.28	
	Total Composite rate per R. M.		7.51	7.50
Item No.12 - 28				
R.M. a) Extra for first floor on item 12 - 21.				
Detail of cost for 44 R.M.				
1. Labour				
	Mason	2.00	Hrs @ 125.00	250.00
	Labourer	1.50	Hrs @ 87.50	131.25
	Helper	5.00	Hrs @ 75.00	375.00
	Bahishti	0.75	Hrs @ 87.50	65.63
				821.88
	Contractor's profit & overhead		20%	164.38
	Total			986.25
	Total Labour rate per R.M.	986.25	/44	22.41
				22.40
	2. Scaffolding and sundries	5%	41.09	
	Contractor's profit & overhead	20%	8.22	
	Total		49.31	
	Total Composite rate per R. M.		23.54	23.55
R.M. b) Extra for every additional floor above first floor on item 12 - 28 (a).				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
1. Labour				
Mason	2.25 Hrs @	125.00	281.25	
Helper	1.75 Hrs @	75.00	131.25	
Labourer	0.75 Hrs @	87.50	65.63	
Bahishti	0.85 Hrs @	87.50	74.38	
			<u>552.50</u>	
Contractor's profit & overhead		20%	110.50	
Total			<u>663.00</u>	
Total Labour rate per R.M.	828.75 /44		15.07	15.05
2. Scaffolding and sundries		5%	27.63	
Contractor's profit & overhead		20%	<u>5.53</u>	
Total			33.15	
Total Composite rate per R. M.			15.82	15.80
Item No. 12 - 29-1				
Cu.m.	Extra for stone masonry of any description in any floor or other than building for every 5 ft. (1.5 m.) height or part thereof beyond 15 ft. (4.5m) height.			
	Rate same as in item 9-16-1		92.85	92.85
Item No.12 - 30-1				
R.M.	Extra for stone masonry in cornice, coping and architrave in any floor or other than building for every 5 ft.(1.5m) height or part thereof beyond 15ft. (4.5m) on item 12-21			
	Considering 30.5 R.M. of cornice, coping or architrave at a height of 12 meter			
1. Labour				
Mason	4.00 Hrs @	125.00	500.00	
Labourer	5.50 Hrs @	87.50	481.25	
			<u>981.25</u>	
Contractor's profit & overhead		20%	196.25	
Total			<u>1,177.50</u>	
Total Labour rate per R.M.	1177.50 x1.5/7.5/30.5		7.72	7.70
2. Scaffolding & sundries		5%	49.06	
Contractor's profit & overhead		20%	<u>9.81</u>	
Total			58.88	
Total Composite rate per R. M.			8.11	8.10
Item No. 12 - 31-1				
R.M.	Extra for stone masonry in cornice, coping and architrave in any floor or other than building for every 5 ft. (1.5m) height or part thereof beyond 15ft. (4.5m) on item 12-22			
	Considering 30.5 R.M. of cornice, coping or architrave at a height of 12 meter			
1. Labour				
Mason	6.00 Hrs @	125.00	750.00	
Labourer	8.00 Hrs @	87.50	700.00	
			<u>1,450.00</u>	
Contractor's profit & overhead		20%	290.00	
Total			<u>1,740.00</u>	
Total Labour rate per R.M.	1177.50 x1.5/7.5/30.5		11.41	11.40
2. Scaffolding & sundries		5%	72.50	
Contractor's profit & overhead		20%	<u>14.50</u>	
Total			87.00	
Total Composite rate per R. M.			11.98	12.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 13 - 1

Sq.m. a) Providing and laying roof insulation comprising single layer of first class burnt brick tile 12"x6"x1.25" laid with 1:6 cement sand mortar and grouted with 1:3 cement sand mortar laid over 4inches (100mm) thick earth and 1inch (25mm) thick gobri leaping over two coats of hot bitumen @ 34 lbs. per 100 Sq.ft.(1.65 Kg/Sq.m) sand blended covered with polythene sheet 300 gauge provided including sand pointing underside of tiles including curing

Detail of Cost for 10 sq.m., wastage taken as 10%

Earth	107.6x4X1.10/12	39.45	Cu.ft. =	1.12	Cu.m.
Mud Plaster	107.6x1X1.10X/12	9.86	Cu.ft. =	0.28	Cu.m.
Cement Plaster	107.6x1X1.10/24	4.93	Cu.ft. =	0.14	Cu.m.
Hot Bitumen	1.65x10X1.10	18.15	Kg.		
Area of tiles + 0.50" thick mortar =	12.5 x 6.5 /144	0.56	Sq.ft.		
No. of tiles in 10 Sq.m.	= 10 x 10.76 / 0.56	192.14	Nos.		
No. of tiles = 192 Nos.+ wastage @ 5 %		201.75	Nos.		
Mortar required including 10% wastage					
Cement sand 1 : 6					
Horizontal	0.5" x 12.5" x 6.5" x 0.5"	20.31			
Vertical	0.50" x 38" x 3" x 0.50"	28.50			
		48.81			
Mortar 1 : 6	= 384 x 48.81 /1728	11.93	Cu.ft. =	0.34	Cu.m.
Pointing 1:2 mortar	= 384x38x0.50x0.50x1/1728	2.32	Cu.ft. =	0.07	Cu.m.
1. Labour					
Mason		16.00	Hrs @	125.00	2000.00
Labourer		24.00	Hrs @	87.50	2100.00
Bahishti		6.00	Hrs @	87.50	525.00
					4625.00
Contractor's profit & overhead				20%	925.00
Total Labour rate					555.00
					555.00
2. Material					
Earth		1.12	Cu.m. @	70.62	78.95
Mud mortar		0.28	Cu.m. @	250.00	70.00
Sand local		0.03	Cu.m. @	882.75	24.72
Bitumen 60/70		18.15	Kg. @	78.00	1415.70
Brick tiles		201.75	No. @	6.20	1250.85
Bhoosa		8.00	Kg. @	20.00	160.00
Fuel wood		5.00	Kg. @	15.00	75.00
Cowdung		0.02	Cu.m. @	106.00	2.12
Cement sand plaster (1:6)		0.14	Cu.m. @	3579.30	501.10
Cement sand mortar (1:6)		0.34	Cu.m. @	3579.30	1202.64
Cement sand pointing (1:2)		0.07	Cu.m. @	8442.75	548.78
					5329.87
Water Charges				1.5%	79.95
					5409.81
3. Sundries				5%	231.25
Total of 2 & 3					5641.06
Contractor's profit & overhead				20%	1,128.21
Total					6,769.28
Total Composite rate per Sq. m.					1,231.93
					1231.95

Sq.m. b) Providing and laying first class burnt brick tile roofing laid in 1 : 6 cement sand mortar including 1 : 2 cement sand pointing underside of tiles including curing for Tee iron/girder roof (Cost of Tee iron/ girder not included)

Rate for 10 Sq.m.

1. Labour					
Mason		3.00	Hrs @	125.00	375.00
Labourer		7.00	Hrs @	87.50	612.50
Bahishti		4.00	Hrs @	87.50	350.00
Mistri		3.00	Hrs @	110.00	330.00
					1667.50
Contractor's profit & overhead				20%	333.50
Total Labour rate per Sq. m.					200.10
					200.10

2. Material

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Brick tiles	371.00	No. @ 6.20	2300.20
	Cement sand mortar (1:6)	0.34	Cu.m. @ 3579.30	1202.64
	Cement sand pointing (1:2)	0.07	Cu.m. @ 8442.75	548.78
				<u>4051.62</u>
	Water Charges		1.5%	60.77
				<u>4112.40</u>
	3. Sundries		5%	83.38
	Total of 2 & 3			<u>4195.77</u>
	Contractor's profit & overhead		20%	839.15
	Total Composite rate per Sq. m.			<u>703.59</u>
				703.60

Sq.m. c) Extra if PCC tiles are used in place of first class burnt bricks in item 13-1(b) above

Labour rate per Sq. m.	70.04	70.05
Composite rate per Sq. m.	246.26	246.25

Item No. 13 - 2

Sq.m. a) Providing and laying second class brick tile roofing comprising 4 inches (100mm) thick earth and 1 inch (25 mm) thick mud plaster with gobi leeping over 1/2 inch (13mm) thick cement plaster 1:6 with 34 lbs./100 Sq.ft.(1.65 Kg./Sq.m.) hot bitumen coating sand blended in one coat, provided over one layer of tiles 12" x 6"x 2" laid in 1:6 cement sand mortar including 1:2 cement sand pointing underside of tiles including curing

Detail of Cost for 10 sq.m., wastage taken as 10%

1. Labour

Mason	16.00	Hrs @ 125.00	2000.00
Labourer	24.00	Hrs @ 87.50	2100.00
Bahishti	6.00	Hrs @ 87.50	525.00
			4625.00
Contractor's profit & overhead		20%	925.00
Total Labour rate			<u>555.00</u>
			555.00

2. Material

Earth	1.12	No. @ 5000.0	5590.00
Mud mortar	0.28	Cu.m. @ 250.0	70.00
Sand local	0.03	Cu.m. @ 882.8	24.72
Bitumen 60/70	18.15	Kg. @ 78.0	1415.70
Brick tiles (2" thick)	202.00	No. @ 15.0	3030.00
Bhoosa	8.00	Kg. @ 20.0	160.00
Fuel wood	5.00	Kg. @ 15.0	75.00
Cowdung	0.02	Cu.m. @ 106.0	2.12
Cement sand plaster (1:6)	0.14	Cu.m. @ 3579.3	501.10
Cement sand mortar (1:6)	0.07	Cu.m. @ 3579.3	232.65
Cement sand pointing (1:2)	0.07	Cu.m. @ 8442.8	548.78
			<u>11650.07</u>
Water Charges		1.5%	174.75
			<u>11824.82</u>
3. Sundries		5%	231.25
Total of 2 & 3			<u>12056.07</u>
Contractor's profit & overhead		20%	2,411.21
Total Composite rate per Sq. m.			<u>2,001.73</u>
			2001.75

Sq.m. b) Providing and laying second class brick tile roofing comprising 4 inches (100mm) thick earth and 1 inch (25 mm) thick mud plaster with gobi leeping provided over one layer of tiles 12"x 6"x 2" laid in 1:6 cement sand mortar including 1:2 cement sand pointing underside of tiles including curing

Detail of Cost for 10 sq.m., wastage taken as 10%

1. Labour

Mason	12.00	Hrs @ 125.00	1500.00
Labourer	24.00	Hrs @ 87.50	2100.00
Bahishti	4.00	Hrs @ 87.50	350.00
			3950.00
Contractor's profit & overhead		20%	790.00
Total Labour rate			<u>474.00</u>
			474.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Material				
Earth	1.12	No. @	5000.00	5590.00
Mud mortar	0.28	Cu.m. @	250.00	70.00
Sand local	0.03	Cu.m. @	882.75	24.72
Brick tiles (2" thick)	202.00	No. @	15.00	3030.00
Bhoosa	8.00	Kg. @	20.00	160.00
Fuel wood	5.00	Kg. @	15.00	75.00
Cowdung	0.02	Cu.m. @	106.00	2.12
Cement sand mortar (1:6)	0.07	Cu.m. @	3579.30	232.65
Cement sand pointing (1:2)	0.07	Cu.m. @	8442.75	548.78
				<u>9733.27</u>
Water Charges		1.5%		146.00
				<u>9879.27</u>
3. Sundries		5%		197.50
Total of 2 & 3				<u>10076.77</u>
Contractor's profit & overhead		20%		2,015.35
Total				<u>12,092.12</u>
Total Composite rate per Sq. m.				1,683.21

1683.20

Item No.13 - 3 - 1**Sq.m. Covering mud roof with coaltar 37 lbs./100 S.ft.(1.8 Kg /Sq.m) and fine sand.**

Detail of cost for 10 sq.m.

1. Labour

Mason	0.75	Hrs. @	31.25	23.44
Cooly	1.50	Hrs. @	13.75	20.63
				<u>44.06</u>
Contractor's profit & overhead		20%		8.81
Total Labour rate				<u>5.29</u>

5.29

2. Material

Cloth woolen	18.00	Sq.ft. @	36.00	648.00
Oil kerosine	6.00	Litre @	88.00	528.00
Lime	6.00	Sq.ft. @	7.70	46.20
Sand fine	6.00	Kg. @	8.00	48.00
				<u>1270.20</u>

3. Sundries

		5%		2.20
Total of 2 & 3				<u>1272.40</u>
Contractor's profit & overhead		20%		254.48
Total				<u>1,526.88</u>
Total Composite rate per Sq. m.				157.98

158.00

Item No. 13 - 4**Filling spaces in between:****Sq.m. a) Wooden battens over beams filled with deodar wood pieces (spacers)**

Detail of Cost for 10 sq.m.

1. Labour

Carpenter	4.00	Hrs @	125.00	500.00
Labourer	4.00	Hrs @	87.50	350.00
				<u>850.00</u>
Contractor's profit & overhead		20%		170.00
Total Labour rate				<u>102.00</u>

102.00

2. Material

Wood - deodar 1st class	0.70	Cu.ft @	5000	3500.00
Nails		3%		87.50
				<u>3587.50</u>

3. Sundries

		5%		42.50
Total of 2 & 3				<u>3630.00</u>
Contractor's profit & overhead		20%		726.00
Total Composite rate per Sq. m.				537.60

537.60

Sq.m. b) R.C.C. battens over beams filled with cement concrete blocks 1 : 3 : 6

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	
	Detail of cost for 10 sq.m.				
	1. Labour				
	Mason	4.00	Hrs @ 125.00	500.00	
	Labourer	8.00	Hrs @ 87.50	700.00	
	Bahishti	1.00	Hrs @ 87.50	87.50	
	Mistri	0.50	Hrs @ 110.00	55.00	
				<u>1342.50</u>	
	Contractor's profit & overhead		20%	268.50	
	Total Labour rate			<u>161.10</u>	
				161.10	
	2. Material				
	Crushed Aggregate 3/4" & down gauge	0.06	Cu.m. @ 1358.50	81.51	
	Sand local	0.04	Cu.m. @ 882.75	35.31	
	Cement OPC	0.02	M.Ton @ 10500.00	210.00	
				<u>326.82</u>	
	Water Charges		1.5%	4.90	
				<u>331.72</u>	
	3. Sundries		5%	67.13	
	Total of 2 & 3			<u>398.85</u>	
	Contractor's profit & overhead		20%	79.77	
	Total Composite rate per Sq. m.			<u>208.96</u>	
				208.95	
Sq.m.	c) Spaces filled with bricks in 1 : 3 cement sand				
	Detail of cost for 10 sq.m.				
	1. Labour				
	Mason	1.25	Hrs. @ 31.25	39.06	
	Cooly	1.25	Hrs. @ 13.75	17.19	
	Bahishti	1.00	Hrs. @ 13.75	13.75	
				<u>70.00</u>	
	Contractor's profit & overhead		20%	14.00	
	Total Labour rate			<u>8.40</u>	
				8.40	
	2. Material				
	Bricks	45.00	No. @ 10.00	450.00	
	Sand local	0.02	Cu.m. @ 882.75	17.66	
	Cement OPC	0.01	M.Ton @ 10500.00	105.00	
				<u>572.66</u>	
	Water Charges		1.5%	8.59	
				<u>581.24</u>	
	3. Sundries		5%	3.50	
	Total of 2 & 3			<u>584.74</u>	
	Contractor's profit & overhead		20%	116.95	
	Total Composite rate per Sq. m.			<u>78.57</u>	
				78.55	
	Item No. 13 - 5 - 1				
Sq.m.	Providing and laying roof insulation comprising single layer of first class burnt brick tile 9"x 4.5"x 1.5" laid with 1:6 cement sand mortar and grouted with 1:3 cement sand mortar laid over 4inches (100mm) thick earth and 1inch (25mm) thick mud plaster without bhoosa over two coats of hot bitumen @ 34 lbs. per 100 Sq.ft.(1.65 Kg/Sq.m) sand blended covered with polythene sheet 300 gauge including curing etc. complete in all respect.				
	Detail of Cost for 10 sq.m.				
	Earth	107.6x4/12	39.45	Cu.ft. = 1.12	Cu.m.
	Mud Plaster	107.6x1/12	9.86	Cu.ft. = 0.28	Cu.m.
	Cement Plaster	107.6x1/24	4.93	Cu.ft. = 0.14	Cu.m.
	Hot Bitumen	1.65x10	18.15	Kg.	
	Area of tiles + 0.25" thick mortar = 9.25 x 4.75 / 144		0.31	Sq.ft.	
	No. of tiles in 10 Sq.m. = 10 x 10.76 / 0.305		352.79	Nos.	
	No. of tiles = 353 Nos.+ wastage @ 5 %		370.43	Nos.	
	Mortar required for grouting including 10% wastage = 353x 2(9.25 +4.75)x 0.25 x 1.5/1728		2.68	Cu.ft. = 0.076	Cu.m.
	1. Labour				
	Mason	14.00	Hrs @ 125.00	1750.00	
	Labourer	22.00	Hrs @ 87.50	1925.00	
	Bahishti	5.00	Hrs @ 87.50	437.50	
				<u>4112.50</u>	
	Contractor's profit & overhead		20%	822.50	
	Total Labour rate			<u>493.50</u>	
				493.50	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
Earth	1.12 No. @ 5000.00		5590.00	
Mud mortar	0.28 Cu.m. @ 250.00		70.00	
Sand local	0.03 Cu.m. @ 882.75		24.72	
Bitumen 60/70	18.15 Kg. @ 78.00		1415.70	
Brick tiles	370 No. @ 6.20		2294.00	
Fuel wood	5 Kg. @ 15.00		75.00	
Cowdung	0.02 Cu.m. @ 106.00		2.12	
Cement sand (1:3)	0.07 Cu.m. @ 6099.30		396.45	
			<u>9867.99</u>	
Water Charges		1.5%	148.02	
			<u>10016.01</u>	
3. Sundries		5%	205.63	
Total of 2 & 3			<u>10221.64</u>	
Contractor's profit & overhead		20%	2,044.33	
Total			<u>12,265.96</u>	
Total Composite rate per Sq. m.			1,720.10	1720.10

Item No. 13 - 6

Providing and filling earth over roof including watering, ramming, mud plastering with gobri leaping

Sq.m. a) 3 inches (75mm) thick earth filling and mud plastering 1 inch (25mm) nominal thickness

Detail of cost for 10 sq.m.

1. Labour

Mason	1.00	Hrs	@	125.00	125.00
Labourer	8.00	Hrs	@	87.50	700.00
Bahishti	1.00	Hrs	@	87.50	87.50
					<u>912.50</u>
Contractor's profit & overhead				20%	182.50
Total Labour rate					<u>109.50</u>

109.50**2. Material**

Earth	1.40	No.	@	5000.00	7000.00
Mud mortar	0.02	Cu.m.	@	250.00	5.00
Bhoosa	16.50	Kg.	@	20.00	330.00
Cowdung	0.02	Cu.m.	@	106.00	2.12
					<u>7337.12</u>

Water Charges				1.0%	73.37
					<u>7410.49</u>

3. Sundries				5%	45.63
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Total of 2 & 3					<u>7456.12</u>
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Contractor's profit & overhead				20%	1,491.22
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Total					<u>8,947.34</u>
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Total Composite rate per Sq. m.					1,004.23
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1004.25**Sq.m. b) 4 inches (100mm) thick earth filling and 1 inch (25 mm) thick mud plastering**

Detail of cost for 10 sq.m.

1. Labour

Mason	1.00	Hrs	@	125.00	125.00
Labourer	10.00	Hrs	@	87.50	875.00
Bahishti	1.25	Hrs	@	87.50	109.38
					<u>1109.38</u>
Contractor's profit & overhead				20%	221.88
Total Labour rate					<u>133.13</u>

133.15**2. Material**

Earth	1.70	No.	@	5000.00	8500.00
Mud mortar	0.02	Cu.m.	@	250.00	5.00
Bhoosa	16.50	Kg.	@	20.00	330.00
Cowdung	0.02	Cu.m.	@	106.00	2.12
					<u>8837.12</u>

Water Charges				1.5%	132.56
					<u>8969.68</u>

3. Sundries				5%	55.47
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total of 2 & 3		9025.14	
Contractor's profit & overhead	20%	1,805.03	
Total		10,830.17	
Total Composite rate per Sq. m.		1,216.14	1216.15

Item No. 13 - 7 - 1**Sq.m. 3.25 mm nominal thick gobar leaping on roof or floors.**

Detail of cost for 10 sq.m.

1. Labour

Mason	1.00	Hrs	@	125.00	125.00
Bahishti	0.50	Hrs	@	87.50	43.75
					168.75

Contractor's profit & overhead	20%	33.75
Total Labour rate		20.25

20.25

2. Material

Mud mortar	0.02	Cu.m.	@	250.00	5.00
Cowdung	0.02	Cu.m.	@	106.00	2.12
					7.12

Water Charges	1.5%	0.11
		7.23

3. Sundries	5%	8.44
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Total of 2 & 3		15.66
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Contractor's profit & overhead	20%	3.13
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Total		18.80
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Total Composite rate per Sq. m.		22.13
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22.15**Item No. 13 - 8**

Providing and fixing corrugated G.I. sheets with G.I. hooks, bolts, nuts, limpets and bitumen washers including cutting to required sizes and overlaps but without valleys and ridges (excluding cost of frame work) in ground floor

Sq.m. a) 18 S.W.G. (1.41 mm) thick sheets roofing

Detail of cost for 10 sq.m.

1. Labour

Black smith	8.00	Hrs	@	112.00	896.00
Labourer	4.20	Hrs	@	87.50	367.50
Hammer man	1.25	Hrs	@	87.50	109.38
					1372.88

Contractor's profit & overhead	20%	274.58
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Total Labour rate		164.75
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164.75

2. Material

Weight per Sq.ft. =	2.32 Lbs				
Weight for 10 sq.m. =	2.32 x 107.60 x 1/2.20462	113.23	Kg.		
Wastage due to cutting & overlaps @ 15%		16.98	Kg.		
		130.22			

G.I. sheet corrugated	130.22	Kg.	@	150.00	19532.40
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Bolts and nuts	20.00	No.	@	2.00	40.00
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G.I. sheet, bolts or nuts (0.75"x0.25")	26.00	Nos.	@	2.75	71.50
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G.I. limpet washers (0.86" dia 14 WG 0.313" hole)	45.00	Nos.	@	0.85	38.25
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Bitumen washers (0.86" dia 14 WG 0.313" hole)	45.00	Nos.	@	0.50	22.50
					19704.65

3. Sundries	5%	68.64
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Total of 2 & 3		19773.29
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Contractor's profit & overhead	20%	3,954.66
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Total		23,727.95
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Total Composite rate per Sq. m.		2,537.54
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2537.55

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. b) 20 S.W.G. (1.31 mm) thick sheets roofing

Detail of Cost for 10 sq.m.

1. Labour

Same as in item (a) above

Contractor's profit & overhead

1372.88

20% 274.58

Total Labour rate

164.75**164.75**

2. Material

Weight per Sq.ft. = 1.80 Lbs

Weight for 10 sq.m. = 1.80 x 107.60 x 1/2.20462

87.85 Kg.

Wastage due to cutting & overlaps @ 10%

8.79 Kg.

96.64 Kg.

G.I. sheet corrugated

96.64 Kg. @ 150.00 14495.56

Bolts and nuts

Same as in item (a) above

172.25

14667.81

3. Sundries

5% 68.64

Total of 2 & 3

14736.45

Contractor's profit & overhead

20% 2,947.29

Total

17,683.74

Total Composite rate per Sq. m.

1,933.12

1933.10**Sq.m. c) 22 S.W.G. (1.21mm) thick sheets roofing**

Detail of Cost for 10 sq.m.

1. Labour

Same as in item (a) above

Contractor's profit & overhead

1372.88

20% 274.58

Total Labour rate

164.75**164.75**

2. Material

Weight per Sq.ft. = 1.50 Lbs

Weight for 10 sq.m. = 1.50 x 107.60 x 1/2.20462

73.21 Kg.

Wastage due to cutting & overlaps @ 10%

7.32 Kg.

80.53 Kg.

G.I. sheet corrugated

80.53 Kg. @ 150.00 12079.63

Bolts and nuts

Same as in item (a) above

172.25

12251.88

3. Sundries

5% 68.64

Total of 2 & 3

12320.53

Contractor's profit & overhead

20% 2,464.11

Total

14,784.63

Total Composite rate per Sq. m.

1,643.21

1643.20**Sq.m. d) 24 S.W.G. (1.06 mm) thick sheets roofing**

Detail of Cost for 10 sq.m.

1. Labour

Same as in item (a) above

Contractor's profit & overhead

1372.88

20% 274.58

Total Labour rate

164.75**164.75**

2. Material

Weight per Sq.ft. = 1.23 Lbs

Weight for 10 sq.m. = 1.23 x 107.60 x 1/2.20462

60.03 Kg.

Wastage due to cutting & overlaps @ 10%

6.00 Kg.

66.04 Kg.

G.I. sheet corrugated

66.04 Kg. @ 150.00 9905.30

Bolts and nuts

Same as in item (a) above

172.25

10077.55

3. Sundries

5% 68.64

Total of 2 & 3

10146.19

Contractor's profit & overhead

20% 2,029.24

Total

12,175.43

Total Composite rate per Sq. m.

1,382.29

1342.04

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. e) 26 S.W.G. (0.97 mm) thick sheets roofing

Detail of Cost for 10 sq.m.

1. Labour

Same as in item (a) above

1372.88

Contractor's profit & overhead

20% 274.58

Total Labour rate

164.75

164.75

2. Material

Weight per Sq.ft. = 1.04 Lbs

Weight for 10 sq.m. = 1.04 x 107.60 x 1/2.20462 50.76 Kg.

Wastage due to cutting & overlaps @ 15% 7.61 Kg.

58.37 Kg.

G.I. sheet corrugated 58.37 Kg. @ 150.00 8755.90

Bolts and nuts Same as in item (a) above 172.25

8928.15

3. Sundries

5% 68.64

Total of 2 & 3

8996.80

Contractor's profit & overhead

20% 1,799.36

Total

10,796.16

Total Composite rate per Sq. m.

1,244.36

1244.35**Item No. 13 - 9 - 1****R.M. Providing khassi parnalas in cement sand mortar 1 : 2, 12inches (300mm) outside width finished smooth with a floating coat of neat cement including water proofing admixture @ 2 % of cement content or as otherwise advised by manufacturer.**

Detail of Cost for 10 R.M.

1. Labour

Mason 14.00 Hrs @ 125.00 1750.00

Labourer 14.00 Hrs @ 87.50 1225.00

Bahishti 2.00 Hrs @ 87.50 175.00

3150.00

Contractor's profit & overhead

20% 630.00

Total Labour rate

378.00

378.00

2. Material

Cement OPC 0.07 M.Ton @ 10500.00 724.50

Sand local 0.03 Cu.m. @ 882.75 24.72

Water proofing admixture 1.38 Litre @ 110.00 151.80

901.02

Water Charges

1.5% 13.52

914.53

3. Sundries

5% 157.50

Total of 2 & 3

1072.03

Contractor's profit & overhead

20% 214.41

Total

1,286.44

Total Composite rate per R.M.

506.64

506.65**Item No. 13 - 10 - 1****Each Providing Khurras on roof 24" x 24" x 2" (600mm x 600mm x 50mm) size including water proofing admixture @ 2 % of cement content or as otherwise advised by manufacturer.**

1. Labour

Mason 16.00 Hrs @ 125.00 2000.00

Labourer 16.00 Hrs @ 87.50 1400.00

Bahishti 4.00 Hrs @ 87.50 350.00

3750.00

Contractor's profit & overhead

20% 750.00

Total Labour rate

450.00

450.00

2. Material

Cement OPC 0.07 M.Ton @ 10500.00 724.50

Sand local 0.03 Cu.m. @ 882.75 24.72

Crushed Aggregate 3/4" & down gauge 0.57 Cu.m. @ 1358.50 768.91

Water proofing admixture 1.38 Litre @ 110.00 151.80

1669.93

Water Charges

1.5% 25.05

1694.98

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			1694.98	
	3. Sundries	5%	187.50	
	Total of 2 & 3		1882.48	
	Contractor's profit & overhead	20%	376.50	
	Total		2,258.97	
	Total Composite rate per khurra		675.90	675.90
Item No. 13 - 11 - 1				
Each	Providing bottom khurras of brick masonry in cement sand mortar 1:6, size 48"x24"x 1.5" (1250mmx 600mmx 38mm) over 3inches (75mm) thick cement concrete 1:4:8 including water proofing admixture @ 2 % of cement content or as otherwise advised by manufacturer.			
	Detail of Cost for 10 Khurras			
	1. Labour			
	Same as in item 13 - 10			
	Contractor's profit & overhead	20%	3750.00	
	Total Labour rate		750.00	450.00
	2. Material			
	Cement OPC	0.07	M.Ton @ 10500.00	724.50
	Sand local	0.03	Cu.m. @ 882.75	24.72
	Bricks	420.00	No. @ 10.00	4200.00
	Crushed Aggregate 3/4" & down gauge	0.57	Cu.m. @ 1358.50	768.91
	Water proofing admixture	1.38	Litre @ 110.00	151.80
				5869.93
	Water Charges	1.5%	88.05	
				5957.98
	3. Sundries	5%	37.50	
	Total of 2 & 3		5995.48	
	Contractor's profit & overhead	20%	1,199.10	
	Total Composite rate per khurra		1,169.46	1169.45
Item No. 13 - 12				
	Providing and laying plain galvanized iron sheet 22 SWG (1.21 mm) rain water down pipe including cost of clamps and fixing in position			
R.M.	a) 4 inches (100 mm) diameter down pipe			
	Detail of cost for 10 R.M.			
	1. Labour			
	Mason	8.00	Hrs @ 125.00	1000.00
	Black smith	8.00	Hrs @ 112.00	896.00
	Labourer	8.00	Hrs @ 87.50	700.00
				2596.00
	Contractor's profit & overhead	20%	519.20	
	Total Labour rate		311.52	311.50
	2. Material			
	Plain sheet =	(2x3.14x2/12)x10x3.28	34.33	Sq.ft.
	Wastage @	15%	5.15	Sq.ft.
			39.48	Sq.ft.
	Weight =	39.48 x 1.41 x 1/2.20462	25.25	Kg.
	G.I. sheet plain		25.25	Kg. @ 130.00
	Nuts, bolts and Clamps			10%
				104.44
				1148.87
	3. Sundries	5%	129.80	
	Total of 2 & 3		1278.67	
	Contractor's profit & overhead	20%	255.73	
	Total Composite rate		464.96	774.92
R.M.	b) 5 inches (125 mm) diameter down pipe			
	Detail of cost for 10 R.M.			
	1. Labour			
	Same as in item 13 - 12 (a)			
	Contractor's profit & overhead	20%	2596.00	
			519.20	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		311.52	311.50
	2. Material			
	Plain sheet = (2x3.14x2.5/12)x10x3.28	42.91	Sq.ft.	
	Wastage @ 15%	6.44	Sq.ft.	
		<u>49.35</u>	Sq.ft.	
	Weight = 49.35 x 1.41 x 1/2.20462	31.56	Kg.	
	G.I. sheet plain	31.56	Kg. @ 130.00	4103.16
	Nuts, bolts and Clamps		10%	410.32
				<u>4513.48</u>
	3. Sundries		5%	129.80
	Total of 2 & 3			<u>4643.28</u>
	Contractor's profit & overhead		20%	928.66
	Total			<u>5,571.94</u>
	Total Composite rate		868.71	868.70

Item No. 13 - 13 - 1**Sq.m. Providing and fixing plain galvanized iron sheet flashing 22 SWG (1.21mm)**

Detail for 10 Sq.m.

1. Labour

Black smith	24.00	Hrs @ 112.00	2688.00
Mason	40.00	Hrs @ 125.00	5000.00
Labourer	24.00	Hrs @ 87.50	2100.00
			<u>9788.00</u>

Contractor's profit & overhead

		20%	1957.60
Total Labour rate			<u>1174.56</u>

1174.55

2. Material

(2x3.14x2/12)x10x3.28	34.33		
Wastage 15%	10.32		
	<u>44.65</u>	Kg.	
G.I. sheet plain	44.65	Kg. @ 130.00	5804.59
Nuts, bolts and Clamps		10%	580.46
			<u>6385.05</u>

3. Sundries

		5%	489.40
Total of 2 & 3			<u>6874.45</u>

Contractor's profit & overhead

		20%	1,374.89
Total Composite rate			<u>1,999.49</u>

1999.50

Item No.13 - 14**Providing and fixing in position cast iron rain water down pipe including painting and clamps but excluding heads and shoes****R.M. a) 4 inches (100 mm) diameter C.I. down pipe**

1. Labour

Plumber	1.00	Hrs @ 125.00	125.00
Helper	1.00	Hrs @ 75.00	75.00
			<u>200.00</u>

Contractor's profit & overhead

		20%	40.00
Total Labour rate			<u>240.00</u>

240.00

2. Material

C.I. pipe 100 mm dia.	1.00	R.M. @ 2700.00	2700.00
Clamps, nuts, bolts & painting		10%	270.00
			<u>2970.00</u>

3. Sundries

		5%	10.00
Total of 2 & 3			<u>2980.0000</u>

Contractor's profit & overhead

		20%	596.00
Total Composite rate			<u>597.60</u>

597.60

R.M. b) 3 inches (75 mm) diameter C.I. down pipe

1. Labour

Plumber	0.50	Hrs @ 125.00	62.50
Helper	0.50	Hrs @ 75.00	37.50
			<u>100.00</u>

Contractor's profit & overhead

		20%	7.50
			<u>7.50</u>

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate	145.00	145.00
	2. Material		
	C.I. Pipe 75 mm dia.	1.00 R.M. @ 2025.00	2025.00
	Clamps, nuts, bolts & painting	10%	202.50
			<u>2227.50</u>
	3. Sundries	5%	5.00
	Total of 2 & 3		2232.50
	Contractor's profit & overhead	20%	446.50
	Total Composite rate		<u>412.90</u>

Item No. 13 - 15

Providing and fixing in position cast iron rain water down pipe head including cost of clamps, holdfasts, nuts, bolts and painting.

Each a) 4 inches (100 mm) diameter C.I. head

	1. Labour				
	Plumber	0.10	Hrs @	125.00	12.50
	Helper	0.25	Hrs @	75.00	18.75
					<u>31.25</u>
	Contractor's profit & overhead			20%	3.75
	Total Labour rate				<u>35.00</u>
					35.00
	2. Material				
	C.I. head 4" dia.	1.00	No. @	162.50	162.50
	Clamps, nuts, bolts & painting			10%	16.25
					<u>178.75</u>
	Contractor's profit & overhead			20%	35.75
	Total				<u>214.50</u>
	Total Composite rate				249.50
					249.50

Each b) 3 inches (75 mm) diameter C.I. head

	1. Labour				
	Plumber	0.10	Hrs @	125.00	12.50
	Helper	0.25	Hrs @	75.00	18.75
					<u>31.25</u>
	Contractor's profit & overhead			20%	3.75
	Total Labour rate				<u>35.00</u>
					35.00
	2. Material				
	C.I. head 3" dia	1.00	No. @	136.50	136.50
	Clamps, nuts, bolts & painting			10%	13.65
					<u>150.15</u>
	Contractor's profit & overhead			20%	30.03
	Total				<u>180.18</u>
	Total Composite rate				215.18
					215.20

Item No. 13 - 16

Providing and fixing cast iron rain water pipe shoe, bend and offset including cost of clamps, holdfasts, bolts, nuts and painting

Each a) 4 inches (100 mm) dia. shoe or bend or offset

	1. Labour				
	Plumber	0.50	Hrs @	125.00	62.50
	Helper	0.50	Hrs @	75.00	37.50
					<u>100.00</u>
	Contractor's profit & overhead			20%	20.00
	Total Labour rate				<u>120.00</u>
					120.00
	2. Material				
	Cost of				
	C.I. shoe 4" dia	1.00	No. @	750	750.00
	C.I. bend 4" dia.	1.00	No. @	565	565.00
	C.I. off set 4" dia.	1.00	No. @	520	<u>520.00</u>
	Average	611.67			611.67

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Painting	5%	30.58	
		<u>642.25</u>	
Contractor's profit & overhead	20%	128.45	
Total		<u>770.70</u>	
Total Composite rate		890.70	890.70

Each b) 3 inches (80 mm) dia. shoe or bend or offset

1. Labour			
Same as in item 13 - 16 (a)		100.00	
Contractor's profit & overhead	20%	20.00	
Total Labour rate		<u>120.00</u>	120.00
2. Material			
C.I. shoe 3" dia	No. @	688	
C.I. bend 3" dia.	No. @	450	
C.I. off set 3" dia.	No. @	494	
Average		543.83	
Painting	5%	27.19	
		<u>571.03</u>	
Contractor's profit & overhead	20%	114.21	
Total Composite rate		<u>805.23</u>	805.23

Item No. 13 - 17 - 1**Each Providing and fixing plain 22 SWG (1.21 mm) G.I. sheet spout size 30"x6" (750mm x 150mm) including painting**

Detail of cost for 10 spouts

The area of 10 spout comes out to be:

= 10 x 750 x 150 x 1/304.8 x 1/304.8

		12.11	Sq.ft.
Wastage =	15%	<u>1.82</u>	Sq.ft.
		13.93	Sq.ft.
Weight =	13.93 x 1.41 x 1/2.20462)	8.91	Kg.

1. Labour				
Black smith	8.00	Hrs @	112.00	896.00
Mason	8.00	Hrs @	125.00	1000.00
Labourer	8.00	Hrs @	87.50	700.00
				<u>2596.00</u>
Contractor's profit & overhead		20%		519.20
Total Labour rate				<u>311.52</u>
				311.50
2. Material				
G.I. sheet plain	8.91	Kg. @	130.00	1158.30
Mortar + Paint			5%	<u>57.92</u>
				1216.22
3. Sundries				
Total of 2 & 3			5%	129.80
				<u>1346.015</u>
Contractor's profit & overhead		20%		269.20
Total				<u>1,615.22</u>
Total Composite rate per spout				473.04
				473.05

Item No. 13 - 18

Providing and fixing plain G.I. sheets with G.I. bolts, nuts, limpets and bitumen washers including cutting to required sizes and overlaps but excluding cost of frame work in ground floor

Sq.m. a) 18 SWG (1.41 mm.) thick sheet roofing

Detail of cost for 10 Sq.m.

Weight per sq.ft.		2.15	Lbs.
Weight for 10 sq.m. =	2.15 x 107.6 x 1/2.20462	104.93	Kg.
Wastage due to cutting & overlaps @ 15%		<u>15.74</u>	Kg.
		120.67	Kg.

1. Labour			
Same as in item 13 - 8 (a)			1372.88
Contractor's profit & overhead	20%		<u>274.58</u>
Total Labour rate			164.75
			164.75

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Material			
G.I. sheet plain		120.67 Kg. @	130.00
Hooks Bolts and Nuts	Same as in item 13 - 8(a)		
			15687.10
			172.25
			<u>15859.35</u>
3. Sundries			
			5%
			68.64
Total of 2 & 3			<u>15927.9938</u>
Contractor's profit & overhead			20%
			3,185.60
Total			<u>19,113.59</u>
Total Composite rate per spout			2,076.10
			2076.10

Sq.m. b) 20 SWG (1.31 mm.) thick sheet roofing

Detail of cost for 10 Sq.m.			
Weight per sq.ft.		1.74	Lbs.
Weight for 10 sq.m. =	1.74 x 107.6 x 1/2.20462	84.92	Kg.
Wastage due to cutting & overlaps @ 15%		12.74	Kg.
		<u>97.66</u>	Kg.
1. Labour			
Same as in item 13 - 8 (a)			1372.88
Contractor's profit & overhead			20%
			274.58
Total Labour rate			<u>164.75</u>
			164.75

2. Material			
G.I. sheet plain		97.66 Kg. @	130.00
Hooks Bolts and Nuts	Same as in item 13 - 8(a)		
			12695.80
			172.25
			<u>12868.05</u>
3. Sundries			
			5%
			68.64
Total of 2 & 3			<u>12936.7</u>
Contractor's profit & overhead			20%
			2,587.34
Total			<u>15,524.03</u>
Total Composite rate per spout			1,717.15
			1717.15

Sq.m. c) 22 SWG (1.21 mm.) thick sheet roofing

Detail of cost for 10 Sq.m.			
Weight per sq.ft.		1.41	Lbs.
Weight for 10 sq.m. =	1.41 x 107.6 x 1/2.20462	68.82	Kg.
Wastage due to cutting & overlaps @ 15%		10.32	Kg.
		<u>79.14</u>	Kg.
1. Labour			
Same as in item 13 - 8 (a)			1372.88
Contractor's profit & overhead			20%
			274.58
Total Labour rate			<u>164.75</u>
			164.75

2. Material			
G.I. sheet plain		79.14 Kg. @	130.00
Hooks Bolts and Nuts	Same as in item 13 - 8(a)		
			10288.20
			172.25
			<u>10460.45</u>
3. Sundries			
			5%
			68.64
Total of 2 & 3			<u>10529.09</u>
Contractor's profit & overhead			20%
			2,105.82
Total			<u>12,634.91</u>
Total Composite rate			1,428.24
			1428.25

Sq.m. d) 24 SWG (1.06 mm.) thick sheet roofing

Detail of cost for 10 Sq.m.			
Weight per sq.ft.		1.15	Lbs.
Weight for 10 sq.m. =	1.15 x 107.6 x 1/2.20462	56.13	Kg.
Wastage due to cutting & overlaps @ 15%		8.42	Kg.
		<u>64.55</u>	Kg.
1. Labour			
Same as in item 13 - 8 (a)			1372.88
Contractor's profit & overhead			20%
			274.58
Total Labour rate			<u>164.75</u>
			164.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	G.I. sheet plain	64.55	Kg. @ 130.00	8391.50
	Hooks Bolts and Nuts		Same as in item 13 - 8(a)	172.25
				<u>8563.75</u>
3. Sundries				
			5%	68.64
	Total of 2 & 3			<u>8632.3938</u>
	Contractor's profit & overhead		20%	1,726.48
	Total Composite rate			<u>1,200.63</u>
				1200.65
Sq.m. e) 26 SWG (0.97 mm.) thick sheet roofing				
Detail of cost for 10 Sq.m.				
	Weight per sq.ft.	0.98	Lbs.	
	Weight for 10 sq.m. = 0.98 x 107.6 x 1/2.20462	47.83	Kg.	
	Wastage due to cutting & overlaps @ 15%	7.17	Kg.	
		<u>55.01</u>	Kg.	
1. Labour				
	Same as in item 13 - 8 (a)			1372.88
	Contractor's profit & overhead		20%	274.58
	Total Labour rate			<u>164.75</u>
				164.75
2. Material				
	G.I. sheet plain	55.01	Kg. @ 130.00	7151.30
	Hooks Bolts and Nuts		Same as in item 13 - 8(a)	172.25
				<u>7323.55</u>
3. Sundries				
			5%	68.64
	Total of 2 & 3			<u>7392.19</u>
	Contractor's profit & overhead		20%	1,478.44
	Total Composite rate			<u>1,051.81</u>
				1051.80
Item No. 13 - 19 - 1				
Sq.m. Extra for fixing of G.I. corrugated or plain sheets on curved frame surface to a minimum radius of 5 ft. (1.5m) in ground floor				
Labour				
	Black smith	0.50	Hrs @ 112.00	56.00
	Helper	0.25	Hrs @ 75.00	18.75
				<u>74.75</u>
	Contractor's profit & overhead		20%	14.95
	Total Labour rate			<u>89.70</u>
				89.70
Item No. 13 - 20 - 1				
Sq.m. Providing and fixing corrugated asbestos cement sheets roofing 1/4" (6.4mm) thick with G.I. Hooks, bolts and G.I. or bitumen washers without valleys and ridges excluding the cost of frame work in ground floor.				
1. Labour				
For fixing, drilling holes and staggering of joints				
	Carpenter	0.50	Hrs @ 125.00	62.50
	Labourer	0.50	Hrs @ 87.50	43.75
				<u>106.25</u>
	Contractor's profit & overhead		20%	21.25
	Total Labour rate			<u>127.50</u>
				127.50
2. Material				
	Non Asbestos Cement Fibre sheet corrugated	1.00	Sq.m.	
	Wastage due to cutting/overlap @ 15%	0.15	Sq.m.	
		<u>1.15</u>	Sq.m.	
	Non Asbestos Cement Fibre sheet corrugated	1.15	Sq.m. @ 320.00	368.00
	G.I. hooks, bolt & nuts 4-1/2" x 5/16"	2.00	No. @ 20.00	40.00
	G.I. limpet washers 7/8" dia	6.00	No. @ 1.00	6.00
	Bitumen washers	6.00	No. @ 2.00	12.00
				<u>426.00</u>
3. Sundries				
			5%	5.31
	Total of 2 & 3			<u>431.31</u>
	Contractor's profit & overhead		20%	86.26

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	645.08	645.10
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Item No. 13 - 21 - 1

Sq.m. Providing and fixing corrugated asbestos cement sheet coloured roofing 5/32" (4mm) thick with G.I. Hooks, bolts and G.I. Or bitumen washers, without valleys and ridges excluding the cost of frame work in first floor.

1. Labour

Same as in item 13-20

Contractor's profit & overhead

Total Labour rate

106.25	20%	21.25	127.50
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127.50

2. Material

Non Asbestos Cement Fibre sheet corrugated coloured

1.15 Sq.m. @ 350.00

Hooks, bolts, washers Same as in item 13 - 20 - 1

402.50

58.00

460.50

3. Sundries

5% 5.31

Total of 2 & 3

465.813

Contractor's profit & overhead

20% 93.16

Total

558.98

Total Composite rate

686.48

686.50**Item No.13 - 22**

Providing and fixing corrugated G.I. sheet ridges 6 inches (150mm) girth and laps on either side with G.I. bolts, nuts, limpets and bitumen washers in ground floor 6" Lap and 18" overall width.

Sq.m. a) 18 SWG (1.41 mm) G.I. galvanized sheet ridge

Detail of cost for 10 R.M.

1. Labour

Black smith

10.00 Hrs @ 112.00 1120.00

Carpenter

2.50 Hrs @ 125.00 312.50

Labourer

1.25 Hrs @ 87.50 109.38

Helper

2.50 Hrs @ 75.00 187.50

1729.38

Contractor's profit & overhead

20% 345.88

Total Labour rate

460.98

461.00

2. Material

Corrugated sheets 10 x 3.28 x 450 x1/304.80

48.44 Sq.ft.

Wastage 15%

7.27 Sq.ft.

55.71 Sq.ft.

Weight 55.71 x 2.2 x 1/2.20462

55.59 Kg.

G.I. sheet corrugated

55.59 Kg. @ 150.00 8338.50

Accessories

Bitumen washers

66 No. @ 2.00 132.00

Galvanized cone headed screws 2.25" x 0.25"

66 Nos. @ 0.40 26.40

Galvanized flat circular washers 7/8" dia.

66 Nos. @ 0.20 13.20

8510.10

3. Sundries

5% 86.47

Total of 2 & 3

8596.57

Contractor's profit & overhead

20% 1,719.31

Total

10,315.88

Total Composite rate

2,752.45

2752.45

Sq.m. b) 20 SWG (1.31 mm) G.I. galvanized sheet ridge

Detail of cost for 10 R.M.

1. Labour

Same as in item 13 - 22 (a)

Contractor's profit & overhead

Total Labour rate

1729.38	20%	345.88	460.98
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461.00

2. Material

Corrugated sheets 55.71 x 1.80 / 2.20462

45.49 Kg.

G.I. sheet corrugated

45.49 Kg. @ 150.00 6822.81

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Acessories	Same as in item 13 - 22(a)	171.60	
			<u>6994.41</u>	
	3. Sundries		86.47	
	Total of 2 & 3		<u>7080.88</u>	
	Contractor's profit & overhead		20%	1,416.18
	Total Composite rate		<u>2,348.43</u>	2348.45
Sq.m. c) 22 SWG (1.21 mm) G.I. galvanized sheet ridge				
	Detail of cost for 10 R.M.			
	1. Labour			
	Same as in item 13 - 22 (a)			
			1729.38	
	Contractor's profit & overhead		20%	345.88
	Total Labour rate		<u>460.98</u>	461.00
	2. Material			
	Galvanized sheets	55.71 x 1.50 / 2.20462	37.90	Kg.
	G.I. sheet corrugated		37.90	Kg. @ 150.00
	Acessories	Same as in item 13 - 22(a)	171.60	
			<u>5857.27</u>	
	3. Sundries		86.47	
	Total of 2 & 3		<u>5943.74</u>	
	Contractor's profit & overhead		20%	1,188.75
	Total Composite rate		<u>2,045.32</u>	2045.30
Sq.m. d) 24 SWG (1.06 mm) G.I. galvanized sheet ridge				
	Detail of cost for 10 R.M.			
	1. Labour			
	Same as in item 13 - 22 (a)			
			1729.38	
	Contractor's profit & overhead		20%	345.88
	Total Labour rate		<u>460.98</u>	461.00
	2. Material			
	Corrugated sheets	55.71 x 1.23 / 2.20462	31.08	Kg.
	G.I. sheet corrugated		31.08	Kg. @ 150.00
	Acessories	Same as in item 13 - 22(a)	171.60	
			<u>4833.85</u>	
	3. Sundries		86.47	
	Total of 2 & 3		<u>4920.32</u>	
	Contractor's profit & overhead		20%	984.06
	Total Composite rate		<u>1,772.52</u>	1772.50
Sq.m. e) 26 SWG (0.97 mm) G.I. galvanized sheet ridge				
	Detail of cost for 10 R.M.			
	1. Labour			
	Same as in item 13 - 22 (a)			
			1729.38	
	Contractor's profit & overhead		20%	345.88
	Total Labour rate		<u>460.98</u>	461.00
	2. Material			
	Corrugated sheets	55.71 x 1.04 / 2.20462	26.28	Kg.
	G.I. sheet corrugated		26.28	Kg. @ 150.00
	Acessories	Same as in item 13 - 22(a)	171.60	
			<u>4113.67</u>	
	3. Sundries		86.47	
	Total of 2 & 3		<u>4200.14</u>	
	Contractor's profit & overhead		20%	840.03
	Total		<u>5,040.16</u>	
	Total Composite rate		1,580.55	1580.55

Item No. 13 - 23 - 1

Sq.m. Providing and fixing fiber glass sheet with G.I. bolts, nuts, limpets and bitumen washers in ground floor.

Detail of cost for 5.94 Sq.m

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
1. Labour			
Same as in item 13 - 22 (a)		1729.38	
Contractor's profit & overhead	20%	345.88	
Total Labour rate		460.98	461.00
2. Material			
Fibre glass corrugated sheet	5.94 Sq.m. @ 1500	8910.00	
Accessories	Same as in item 13 - 22(a)	171.60	
		9081.60	
3. Sundries	5%	86.47	
Total of 2 & 3		9168.07	
Contractor's profit & overhead	20%	1,833.61	
Total		11,001.68	
Total Composite rate		2,313.11	2313.10

Item No. 13 - 24

Providing and fixing plain G.I. sheet ridges 6inches (150mm) girth and laps on either side with G.I. hooks, nuts, limpets and bitumen washers in ground floor 9" Lap and 24" overall width.

Sq.m. a) 18 SWG (1.41 mm) plain galvanized sheet ridge

Detail of cost for 10 R.M.

1. Labour

Same as in item 13 - 22 (a)

Contractor's profit & overhead

Total Labour rate

1729.38
20% 345.88
460.98

461.00

2. Material

Plain G.I. sheets

55.71 x 2.15 / 2.20462

54.33 Kg.

G.I. sheet plain

54.33 Kg. @ 130

Accessories

Same as in item 13 - 22(a)

7062.87
171.60
7234.47

3. Sundries

Total of 2 & 3

Contractor's profit & overhead

Total

Total Composite rate

5% 86.47
7320.94
20% 1,464.19
8,785.13
2,412.42

2412.40**Sq.m. b) 20 SWG (1.31mm) plain galvanized sheet ridge**

Detail of cost for 10 R.M.

1. Labour

Same as in item 13 - 22 (a)

Contractor's profit & overhead

Total Labour rate

1729.38
20% 345.88
460.98

461.00

2. Material

Plain G.I. sheets

55.71 x 1.74 / 2.20462

43.97 Kg.

G.I. sheet plain

43.97 Kg. @ 130

Accessories

Same as in item 13 - 22(a)

5716.00
171.60
5887.60

3. Sundries

Total of 2 & 3

Contractor's profit & overhead

Total

Total Composite rate

5% 86.47
5974.07
20% 1,194.81
7,168.88
2,053.40

2053.40**Sq.m. c) 22 SWG (1.21mm) plain galvanized sheet ridge**

Detail of cost for 10 R.M.

1. Labour

Same as in item 13 - 22 (a)

Contractor's profit & overhead

Total Labour rate

1729.38
20% 345.88
460.98

461.00

2. Material

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Plain G.I. sheets	55.71 x 1.41 / 2.20462	35.63	Kg.
	G.I. sheet plain		35.63	Kg. @ 130.00
	Acessories	Same as in item 13 - 22(a)		
				4631.93
				171.60
				4803.53
	3. Sundries			5%
	Total of 2 & 3			86.47
	Contractor's profit & overhead			20%
	Total			4890.00
	Total Composite rate			978.00
				5,868.00
				1,764.44
				1764.45
Sq.m.	d) 24 SWG (1.06mm) plain galvanized sheet ridge			
	Detail of cost for 10 R.M.			
	1. Labour			
	Same as in item 13 - 22 (a)			1729.38
	Contractor's profit & overhead			20%
	Total Labour rate			345.88
				460.98
				461.00
	2. Material			
	Plain G.I. sheets	55.71 x 1.15 / 2.20462	29.06	Kg.
	G.I. sheet plain		29.06	Kg. @ 130.00
	Acessories	Same as in item 13 - 22(a)		
				3777.81
				171.60
				3949.41
	3. Sundries			5%
	Total of 2 & 3			86.47
	Contractor's profit & overhead			20%
	Total			4035.88
	Total Composite rate			807.18
				4,843.06
				1,536.77
				1536.75
Sq.m.	e) 26 SWG (0.97 mm) plain galvanized sheet ridge			
	Detail of cost for 10 R.M.			
	1. Labour			
	Same as in item 13 - 22 (a)			1729.38
	Contractor's profit & overhead			20%
	Total Labour rate			345.88
				460.98
				461.00
	2. Material			
	Plain G.I. sheets	55.71 x 0.98 / 2.20462	24.76	Kg.
	G.I. sheet plain		24.76	Kg. @ 130.00
	Acessories	Same as in item 13 - 22(a)		
				3219.35
				171.60
				3390.95
	3. Sundries			5%
	Total of 2 & 3			86.47
	Contractor's profit & overhead			20%
	Total			3477.42
	Total Composite rate			695.48
				4,172.91
				1,387.91
				1387.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 13 - 25 - 1**R.M. Providing and fixing Non Asbestos Cement Fibre ridge two pieces close fitting or plain wing adjustable, 1/4 inch (6.4mm) thick with bolts and nuts in ground floor**

Detail of cost for 10 R.M.

1. Labour

Black smith	0.25	Hrs	@	112.00	28.00
Carpenter	0.50	Hrs	@	125.00	62.50
Labourer	1.00	Hrs	@	87.50	87.50

178.00

Contractor's profit & overhead

20%

35.60

Total Labour rate

21.36

21.35

2. Material

Non Asbestos Cement Fibre Ridges	10.00	R.M.			
Wastage & overlaps	15%				
	1.50	R.M.			
	11.50	R.M.			

Rate of one pair 3.56 ft. = 376.00

376.00

Rate per R.M. 376 x 3.28/ 3.56

346.43

Non Asbestos Cement Fibre ridge 11.50 Pair @ 346.43 3983.91

Accessories

Bitumen washers	14.00	No.	@	2.00	28.00
Bolts and nuts	14.00	No.	@	2.00	28.00
G.I. limpet washers 7/8" dia	14.00	No.	@	1.00	14.00

4053.91

3. Sundries

5%

8.90

Total of 2 & 3

4062.81

Contractor's profit & overhead

20%

812.56

Total

4,875.37

Total Composite rate

508.90

508.90**Item No. 13 - 26 - 1****R.M. Providing and fixing Non Asbestos Cement Fibre ridge two pieces close fitting or plain wing adjustable, 5/32" (4mm) thick with bolts and nuts in ground floor**

Detail of cost for 10 R.M.

1. Labour

Same as in item 13 - 25 - 1

178.00

Contractor's profit & overhead

20%

35.60

Total Labour rate

21.36

21.35

2. Material

Ridges	10.00	R.M.			
Wastage & overlaps	15%				
	1.50	R.M.			
	11.50	R.M.			

Rate of one pair 3.42 ft. = 342.00

342.00

Rate per R.M. 342 x 3.28/ 3.42

328.00

Non Asbestos Cement Fibre ridge 11.50 Pair @ 328.00 3772.00

Accessories

Bitumen washers	14.00	No.	@	2.00	28.00
Bolts and nuts	14.00	No.	@	2.00	28.00
G.I. limpet washers 7/8" dia	14.00	No.	@	1.00	14.00

3842.00

3. Sundries

5%

8.90

Total of 2 & 3

3850.90

Contractor's profit & overhead

20%

770.18

Total

4,621.08

Total Composite rate

483.47

483.45**Item No. 13 - 27 - 1****R.M. Providing and fixing Non Asbestos Cement Fibre ridge plain angular one piece including bolts and nuts in ground floor**

Detail of cost for 10 R.M.

1. Labour

Same as in item 13 - 25 - 1

178.00

Contractor's profit & overhead

20%

35.60

Total Labour rate

21.36

21.35

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
2. Material					
Ridges		10.00	R.M.		
Wastage & overlaps	15%	1.50	R.M.		
		11.50	R.M.		
Rate of one pair 4 ft. =	290.55	290.55			
Rate per R.M.	290.55 x 3.28/ 4	238.25			
Non Asbestos Cement Fibre ridge		11.50	Pair @	238.25	2739.89
<u>Accessories</u>					
Bitumen washers		12.00	No. @	2.00	24.00
Bolts and nuts		12.00	No. @	2.00	24.00
G.I. limpet washers 7/8" dia		12.00	No. @	1.00	12.00
					2799.89
3. Sundries				5%	8.90
Total of 2 & 3					2808.79
Contractor's profit & overhead				20%	561.76
Total					3,370.54
Total Composite rate					358.41
					358.40

Item No. 13 - 28

Providing and fixing two piece adjustable asbestos cement ridge finials in any floor at any height with bolts and nuts.

Each a) Grey Colour

1. Labour					
Carpenter	0.50	Hrs @	125.00		62.50
Labourer	0.50	Hrs @	87.50		43.75
					106.25
Contractor's profit & overhead				20%	21.25
Total Labour rate					127.50
					127.50

2. Material

Non Asbestos Cement Fibre two piece adjustable ridge finials grey	1	pair @	85.45		85.45
<u>Accessories</u>					
Bitumen washers	2.00	No. @	2.00		4.00
Bolts and nuts	2.00	No. @	2.00		4.00
G.I. limpet washers 7/8" dia	2.00	No. @	1.00		2.00
					95.45
3. Sundries				5%	5.31
Total of 2 & 3					100.77
Contractor's profit & overhead				20%	20.15
Total					120.92
Total Composite rate					248.42
					248.40

Each b) Other than grey colour

1. Labour					
Same as in item 13 - 28(a)					106.25
Contractor's profit & overhead				20%	21.25
Total Labour rate					127.50
					127.50

2. Material

Non Asbestos Cement Fibre two piece adjustable ridge finials	1	pair @	76.91		76.91
<u>Accessories</u>					
Bitumen washers	2.00	No. @	2.00		4.00
Bolts and nuts	2.00	No. @	2.00		4.00
G.I. limpet washers 7/8" dia	2.00	No. @	1.00		2.00
					86.91
3. Sundries				5%	5.31
Total of 2 & 3					92.22
Contractor's profit & overhead				20%	18.44
Total Composite rate					238.17
					238.15

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 13 - 29

Providing and fixing plain galvanized iron gutters 18 inches (450mm) girth with bolts and nuts in ground floor

R.M. a) 18 SWG (1.41mm) thick G.I. sheet gutter

Detail of Cost for 10 R.M.

1. Labour

Black smith	4.00	Hrs	@	112.00	448.00
Helper	2.00	Hrs	@	75.00	150.00
Labourer	2.50	Hrs	@	87.50	218.75
					<u>816.75</u>
Contractor's profit & overhead				20%	163.35
Total Labour rate					<u>98.01</u>

98.00

2. Material

Plain galvanized sheet = $10 + 3.28 \times 450 / 304.8$	48.43				
Wastage 5%	2.42				
	<u>50.85</u>				
Weight 50.85 x 2.15 / 2.20462	49.59	Kg.			
G.I. sheet plain	49.59	Kg.	@	130.00	6446.91
<u>Accessories</u>					
G.I. rivets	33.00	No.	@	12.00	396.00
Bolts and nuts	33.00	No.	@	2.00	66.00
G.I. limpet washers 7/8" dia	33.00	No.	@	1.00	33.00
Bitumen washers	33.00	No.	@	2.00	66.00
					<u>561.00</u>
Total					7007.91
3. Sundries				5%	40.84
Total of 2 & 3					<u>7048.75</u>
Contractor's profit & overhead				20%	1,409.75
Total Composite rate					<u>943.86</u>

943.85**R.M. b) 20 SWG (1.31mm) thick G.I. sheet gutter**

Detail of Cost for 10 R.M.

1. Labour

Same as in item 13 - 29(a)					816.75
Contractor's profit & overhead				20%	163.35
Total Labour rate					<u>98.01</u>

98.00

2. Material

Weight 50.85 x 1.74 / 2.20462	40.13	Kg.			
G.I. sheet plain	40.13	Kg.	@	130.00	5217.35
<u>Accessories</u>					
Same as in item 13 - 29(a)					561.00
Total					<u>5778.35</u>
3. Sundries				5%	40.84
Total of 2 & 3					<u>5819.19</u>
Contractor's profit & overhead				20%	1,163.84
Total Composite rate					<u>796.31</u>

796.30**R.M. c) 22 SWG (1.21mm) thick G.I. sheet gutter**

Detail of Cost for 10 R.M.

1. Labour

Same as in item 13 - 29(a)					816.75
Contractor's profit & overhead				20%	163.35
Total Labour rate					<u>98.01</u>

98.00

2. Material

Weight 50.85 x 1.41 / 2.20462	32.52	Kg.			
G.I. sheet plain	32.52	Kg.	@	130.00	4227.85
<u>Accessories</u>					
Same as in item 13 - 29(a)					561.00
Total					<u>4788.85</u>
3. Sundries				5%	40.84

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total of 2 & 3		4829.69	
	Contractor's profit & overhead	20%	965.94	
	Total Composite rate		677.57	677.55
	Item No. 13 - 30 - 1			
R.M.	Providing and fixing 22 SWG (1.21mm) G.I. sheet gutter semi circular 12inches (300mm) diameter.			
	1. Labour			
	Black smith	0.75	Hrs @ 112.00	84.00
	Labourer	0.75	Hrs @ 87.50	65.63
				149.63
	Contractor's profit & overhead	20%	29.93	
	Total Labour rate		179.55	179.55
	2. Material			
	Plain sheet	3.28 x 11 x 1/2 x 300 /304.80	5.07	Sq.ft.
	Wastage	15%	0.76	Sq.ft.
			5.83	Sq.ft.
	Weight	5.83 x 1.41 x 1/2.20462	3.73	Kg.
	G.I. sheet plain		3.73	Kg. @ 130.00
	Brackets, Bolts & Nuts		10%	48.49
	Painting		2%	9.70
				543.09
	3. Sundries		5%	7.48
	Total of 2 & 3			550.57
	Contractor's profit & overhead	20%	110.11	
	Total Composite rate		840.23	840.25
	Item No. 13 - 31 - 1			
R.M.	Providing and fixing Non Asbestos Cement Fibre valley gutters size 9" x 6" (229mmx 152mm) and 1/4" (6.4mm) thick in ground floor			
	1. Labour			
	Black smith	0.40	Hrs @ 112.00	44.80
	Hammer man	0.20	Hrs @ 87.50	17.50
	Labourer	0.25	Hrs @ 87.50	21.88
				84.18
	Contractor's profit & overhead	20%	16.84	
	Total Labour rate		101.01	101.00
	2. Material			
	Non Asbestos Cement Fibre	1.00	R.M. @ 489.00	489.00
	Bolts and nuts	3.00	No. @ 2.00	6.00
	G.I. limpet washers 7/8" dia	4.00	No. @ 1.00	4.00
	Bitumen washers	4.00	No. @ 2.00	8.00
				507.00
	3. Sundries		5%	4.21
	Total of 2 & 3			511.21
	Contractor's profit & overhead	20%	102.24	
	Total Composite rate		714.46	714.45
	Item No. 13 - 32 - 1			
Sq.m.	Providing and fixing 1/4" (6.4mm) thick plain Non Asbestos Cement Fibre sheet ceiling on wooden frame with deodar wood beading 2" x 1/2" (51mm x13mm) of required shape fixed with screws perforated in corners if required but excluding the cost of frame in ground floor			
	Detail of Cost for 13.40 sq.m.			
	Considering a room of 12'x12' size	144	Sq.ft.	
	1. Labour			
	Carpenter	8.00	Hrs @ 125.00	1000.00
	Labourer	8.00	Hrs @ 87.50	700.00
				1700.00
	Contractor's profit & overhead	20%	340.00	
	Total Labour rate		152.24	152.25

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	A.C. sheet 1/4" (6.4 mm.) thick	13.40	Sq.m.	
	Wastage due to cutting etc. @ 5%	0.67	Sq.m.	
		<u>14.07</u>	Sq.m.	
Deodar Wood				
	Considering 96' x 1/6" x 1/24	0.67	Cu.ft.	
	Wastage 50%	0.33	Cu.ft.	
		<u>1.00</u>	Cu.ft. = 0.028	Cu.m.
	Non Asbestos Cement Fibre sheet - plain	14.07	Sq.m. @ 460.00	6472.20
	Wood - deodar 2nd class	0.03	Cu.m. @ 141240.00	4000.00
	Iron screws	0.25	Kg. @ 130.00	32.50
				<u>10504.70</u>
	3. Sundries		5%	85.00
	Total of 2 & 3			<u>10589.70</u>
	Contractor's profit & overhead		20%	2,117.94
	Total			<u>12,707.64</u>
	Total Composite rate			1,100.57
				1100.55

Item No. 13 - 33

Sq.m. a) **Providing and fixing 1/2" (13mm) thick Medium Density Fibreboard (Lasani) ceiling of required shape fixed with screws and nails perforated in corners if required but excluding the cost of frame in ground floor upto 14 ft high including guffing.**

Detail of cost for 13.40 sq.m.

1. Labour

Same as in item 13 - 32

Contractor's profit & overhead 20%

Total Labour rate

1700.00

340.00

152.24**152.25**

2. Material

1/2" MDF Board (Local) without lamination

13.40 Sq.m.

Wastage

1.34 Sq.m.

14.74 Sq.m.

1/2" MDF Board (Local) without lamination

14.74 Sq.m. @ 484.20 7137.11

Iron screws

0.25 Kg. @ 130.00 32.50

Polish

10.00 Sq.m. @ 600.00 6000.00

13169.61

3. Sundries

5% 85.00

Total of 2 & 3

13254.61

Contractor's profit & overhead 20%

2,650.92

Total

15,905.53

Total Composite rate

1,186.98

1187.00

Sq.m. b) **Same as Item 13-33 but for Medium Density Fibre board 3/4" (18 mm)**

Detail of cost for 13.40 sq.m.

1. Labour

Same as in item 13 - 32

Contractor's profit & overhead 20%

Total Labour rate

1700.00

340.00

152.24**152.25**

2. Material

3/4" MDF Board (Local) without lamination

14.74 Sq.M @ 645.60 9516.14

Iron screws

0.25 Kg. @ 130.00 32.50

Polish

10.00 Sq.m. @ 600.00 6000.00

15548.64

3. Sundries

5% 85.00

Total of 2 & 3

15633.64

Contractor's profit & overhead 20%

3,126.73

Total

18,760.37

Total Composite rate

1,552.27

1552.25**Item No. 13 - 34**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Providing and fixing thermopore sheet ceiling on GI powder coated frame required shape, fixed with screws perforated in corners if required but excluding the cost of frame in ground floor

Sq.m. a) 1/2 inch (13mm) thick thermopore sheet ceiling

Detail of cost for 10 Sq.m.

Thermopore sheet required	1m x 1m size	10.00	Nos.			
Wastage	5%	0.50	Nos.			
		10.50	Nos.			
Carpenter		2.00	Hrs @	125.00	250.00	
Labourer		2.00	Hrs @	87.50	175.00	
					425.00	
Contractor's profit & overhead				20%	85.00	
Total Labour rate					51.00	51.00
2. Material						
Thermopore sheet 1/2" thick		10.50	No. @	100.00	1050.00	
Iron screws		0.25	Kg. @	130.00	32.50	
Glue				0.5%	5.41	
					1087.91	
3. Sundries (including Cost of Frame)				10%	42.50	
Total of 2 & 3					1130.41	
Contractor's profit & overhead				20%	226.08	
Total					1,356.50	
Total Composite rate					186.65	186.65

Sq.m. b) 1 inch (25 mm) thick thermopore sheet ceiling

1. Labour						
Same as in item (a) above					425.00	
Contractor's profit & overhead				20%	85.00	
Total Labour rate					51.00	51.00
2. Material						
Thermopore sheet 1" thick		10.50	No. @	180.00	1890.00	
Same as in item (a) above					37.91	
					1927.91	
3. Sundries				10%	42.50	
Total of 2 & 3					1970.41	
Contractor's profit & overhead				20%	394.08	
Total					2,364.50	
Total Composite rate					287.45	287.45

Sq.m. c) 1-1/2 inch (38 mm) thick thermopore sheet

1. Labour						
Same as in item (a) above					425.00	
Contractor's profit & overhead				20%	85.00	
Total Labour rate					51.00	51.00
2. Material						
Thermopore sheet 1-1/2" thick		10.50	No. @	250.00	2625.00	
Iron screws + Glue					37.91	
Same as in item (a) above					2662.91	
3. Sundries				10%	42.50	
Total of 2 & 3					2705.41	
Contractor's profit & overhead				20%	541.08	
Total					3,246.50	
Total Composite rate					375.65	375.65

Item No. 13 - 35 - 1

Sq.m. Providing and fixing hessian cloth ceiling with wooden beading 2"x1/2" (50mm x13mm) in ground floor

Detail of cost for 13.40 Sq.m.

1. Labour						
Carpenter		5.00	Hrs @	125.00	625.00	
Labourer		5.00	Hrs @	87.50	437.50	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			1062.50	
	Contractor's profit & overhead	20%	212.50	
	Total Labour rate		95.15	95.15
	2. Material			
	Hessian cloth 3 ft. wide	13.40	Sq.m.	
	Wastage = 10%	1.34	Sq.m.	
		14.74	Sq.m.	
	Deodar wood beading 10 x 12 x 1/6 x 1/24	0.83	Cu.ft.	
	Wastage = 50%	0.42	Cu.ft.	
		1.25	Cu.ft.	
		=	0.0354	Cu.m.
	Hessian cloth	14.74	Sq.m. @ 47.00	692.78
	Wood - deodar 1st class	0.04	Cu.m. @ 176550.00	6250.00
	Cotton tape	15.00	R.M. @ 10.00	150.00
	Iron screws	0.75	Kg. @ 130.00	97.50
				7190.28
	3. Sundries		5%	53.13
	Total of 2 & 3			7243.41
	Contractor's profit & overhead	20%		1,448.68
	Total			8,692.09
	Total Composite rate			743.81
				743.80

Item No. 13 - 36

Providing, fixing and hoisting best quality wood ceiling frame of required section including providing approved anti-termite treatment

Sq.m. a) Deodar wood

1. Labour					
Carpenter	6.00	Hrs @	125.00	750.00	
Labourer	4.00	Hrs @	87.50	350.00	
				1100.00	
Contractor's profit & overhead		20%		220.00	
Total Labour rate				1,320.00	1320.00
2. Material					
Considering a ceiling frame to be fixed in a roof 10'x10' under the trusses					
Deodar wood sleepers					
10' x 10' x 5/24 x 1/6	3.47	Cu.ft.			
Wastage = 15%	0.52	Cu.ft.			
	3.99	Cu.ft. =	0.11	Cu.m.	
Wood - deodar 1st class	0.11	Cu.m. @	176550.00	19420.50	
Sawing charges	3.99	Cu.ft. @	87.50	349.13	
Nail of all sizes	1.00	Kg. @	90.00	90.00	
Glue			0.5%	99.30	
				19958.92	
3. Sundries					
Including anti-termite treatment, hoisting and scaffolding on material and labour			5%	1052.95	
Total of 2 & 3				21011.87	
Contractor's profit & overhead		20%		4,202.37	
Total				25,214.24	
Total Composite rate				4,033.05	4033.05

Sq.m. b) Partial wood

1. Labour					
Same as in item (a) above				1100.00	
Contractor's profit & overhead		20%		220.00	
Total Labour rate				1,320.00	1320.00
2. Material					
Wood - Partial	0.11	Cu.m. @	42372.00	4660.92	
Same as in item (a) above				538.42	
				5199.34	
3. Sundries					

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Including anti-termite treatment, hoisting and scaffolding on material and labour	5%	314.97	
Total of 2 & 3		5514.31	
Contractor's profit & overhead	20%	1,102.86	
Total		6,617.17	
Total Composite rate		2,032.01	2032.00

Sq.m. c) Kail wood

1. Labour			
Same as in item (a) above		1100.00	
Contractor's profit & overhead	20%	220.00	
Total Labour rate		1,320.00	1320.00

2. Material

Wood - Kail 1st class	0.11	Cu.m. @ 123585.00	13594.35
Same as in item (a) above			538.42
			14132.77

3. Sundries

Including anti-termite treatment, hoisting and scaffolding on material and labour	5%	761.64	
Total of 2 & 3		14894.41	
Contractor's profit & overhead	20%	2,978.88	
Total		17,873.29	
Total Composite rate		3,243.17	3243.15

Item No. 13 - 37 - 1**Sq.m. Extra labour for erection of G.I. corrugated sheets, plain sheets or Non Asbestos Cement Fibre Sheet Roofing, above 20 ft. (6 m) height in difficult position, including lifting with care and special scaffolding along live electric wire.**

Labour					
Black smith	0.05	Hrs @	112.00	5.60	
Carpenter	0.10	Hrs @	125.00	12.50	
Labourer	0.15	Hrs @	87.50	13.13	
				31.23	
Contractor's profit & overhead			20%	6.25	
Total Labour rate				37.47	37.45

Item No. 13 - 38 - 1**Sq.m. Supplying and laying twin plain G.I. sheet 20 SWG (1.31 mm) painted with hot bitumen 1.65 kg/sq.m. with polythene film in between 300 gauge (0.03 mm) to provide a sliding joint under the bearing of the beams including 3 inch (75 mm) long three nos. bars to act as holdfasts on walls and beams.**

Detail of cost for 10 Sq.m.

1. Labour					
Black smith	6.00	Hrs @	112.00	672.00	
Labourer	3.00	Hrs @	87.50	262.50	
Hammer man	1.50	Hrs @	87.50	131.25	
				1065.75	
Contractor's profit & overhead			20%	213.15	
Total Labour rate				127.89	127.90

2. Material

G.I. sheets 2 m x 10 m	20.00	Sq.m.			
Wastage	5%	1.00	Sq.m.		
		21.00	Sq.m.		
Weight =	21x10.76x1.74 /2.20462)	178.34	Kg.		
M.S. bars =	108 x 0.25 x 0.167/2.20462	2.05	Kg.		
G.I. sheet plain		178.34	Kg. @	130.00	23184.11
Bitumen 60/70		16.50	Kg. @	78.00	1287.00
Polythene sheet		10.50	Sq.m. @	80.00	840.00
Mild steel bars(G-40)		2.05	Kg. @	88.00	179.98
Fuel wood		5.00	Kg. @	15.00	75.00
					25566.09

3. Sundries

Total of 2 & 3	5%			53.29	
					25619.38

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	5123.88	
Total Composite rate		<u>3202.22</u>	3202.20

Item No. 13 - 39

Providing and laying first class tile roof insulation comprising single layer of tiles 9"x 4-1/2"x 1-1/2" grouted with cement sand mortar 1:3 laid over 2 inch (50mm) thick earth including mud plaster over thermopore sheet over polythene sheet 300gauge (0.03mm) over a layer of hot bitumen coating, complete in all respect.

Sq.m. a) Using thermopore sheet 1/2 inch (13mm) thick.

Detail of cost for 10 Sq.m.

1. Labour

Mason	12.00	Hrs	@	125.00	1500.00
Labourer	15.00	Hrs	@	87.50	1312.50
Bahishti	4.00	Hrs	@	87.50	350.00
Mistri	2.50	Hrs	@	110.00	275.00
					<u>3437.50</u>
Contractor's profit & overhead				20%	687.50
Total Labour rate					<u>412.50</u>

2. Material

Earth	0.28	No.	@	5000.00	1400.00
Mud mortar	0.28	Cu.m.	@	250.00	70.00
Brick tiles	371	No.	@	6.2	2300.20
Bitumen 60/70	18.15	Kg.	@	78.00	1415.70
Fuel wood	5.00	Kg.	@	15.00	75.00
Cowdung	0.02	Cu.m.	@	106.00	2.12
Polythene sheet	10.50	Sq.m.	@	80.00	840.00
Cement sand (1:3) for grouting	0.07	Cu.m.	@	6099	396.45
					<u>6499.47</u>
Thermopore sheet 1/2" thick	10.50	No.	@	100.00	1050.00
					<u>7549.47</u>
3. Sundries				5%	171.88
Total of 2 & 3					<u>7721.35</u>
Contractor's profit & overhead				20%	1,544.27
Total Composite rate					<u>1,339.06</u>

Sq.m. b) Using thermopore sheet 1 inch (25mm) thick.

1. Labour

Same as in item 13 - 39(a) above					3437.50
Contractor's profit & overhead				20%	687.50
Total Labour rate					<u>412.50</u>

2. Material

Thermopore sheet 1" thick	10.50	No.	@	180.00	1890.00
Other materials same as in item 13-39(a) above					<u>6499.47</u>
					8389.47
3. Sundries				5%	171.88
Total of 2 & 3					<u>8561.35</u>
Contractor's profit & overhead				20%	1,712.27
Total Composite rate					<u>1,439.86</u>

Sq.m. c) Using thermopore sheet 1-1/2 inch (37mm) thick.

1. Labour

Same as in item 13 - 39(a) above					3437.50
Contractor's profit & overhead				20%	687.50
Total Labour rate					<u>412.50</u>

2. Material

Thermopore sheet 1-1/2" thick	10.50	No.	@	250.00	2625.00
Other materials same as in item 13-39(a) above					<u>6499.47</u>
					9124.47
3. Sundries				5%	171.88
Total of 2 & 3					<u>9296.35</u>
Contractor's profit & overhead				20%	1,859.27

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	1,528.06	1528.05
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Item No. 13 - 40 - 1

R.M. Providing and fixing non asbestos cement fibre rain water down pipe 4 inches (100mm) dia. with shoe and other accessories

1. Labour

Plumber	0.25	Hrs	@	125.00	31.25
Helper	0.25	Hrs	@	75.00	18.75
					<u>50.00</u>
Contractor's profit & overhead				20%	10.00
Total Labour rate					<u>32.82</u>

32.80

2. Material

Down pipe	1.00	No.	@	290.00	290.00
Shoe 100 mm	1.00	No.	@	95.00	95.00
Head	1.00	No.	@	125.00	125.00
Off-set	1.00	No.	@	210.00	210.00
					<u>720.00</u>
Clamp etc.				5%	36.00
					<u>756.00</u>
3. Sundries				5%	37.80
Total of 2 & 3					<u>793.80</u>
Contractor's profit & overhead				20%	158.76
Total					<u>952.56</u>
Total Composite rate					553.71

553.70**Item No. 13 - 41**

Making recess in existing brick masonry for bearing of beam girder, R.S joist including repairing damaged surface

Each a) Upto 12 inches (0.30 m) height of girder or beam

1. Labour

Mason	1.50	Hrs	@	125.00	187.50
Labourer	0.75	Hrs	@	87.50	65.63
					<u>253.13</u>
Contractor's profit & overhead				20%	50.63
Total Labour rate					<u>303.75</u>

303.75

2. Material

Contractor's profit & overhead				10%	25.31
Total				20%	5.06
					<u>30.38</u>

Total Composite rate

334.13

334.15

Each b) For every 6 inches (0.15 m) additional height or part thereof

1. Labour

Mason	0.75	Hrs	@	125.00	93.75
Labourer	0.50	Hrs	@	87.50	43.75
					<u>137.50</u>
Contractor's profit & overhead				20%	27.50
Total Labour rate					<u>165.00</u>

165.00

2. Material

Contractor's profit & overhead				10%	13.75
Total				20%	2.75
					<u>16.50</u>

Total Composite rate

181.50

181.50**Item No. 13 - 42**

Making jarries in existing masonry/concrete for providing recesses for bearing of R.C.C. roof slab including repairing the damaged surface

R.M. a) Slab upto 6 inches (150mm) thick in brick masonry

1. Labour

Mason	0.50	Hrs	@	125.00	62.50
Contractor's profit & overhead				20%	12.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		75.00	75.00
	2. Material	15%	9.38	
	Contractor's profit & overhead	20%	1.88	
	Total		11.25	
	Total Composite rate		86.25	86.25
R.M.	b) Slab exceeding 6 inches (150mm) thick in brick masonry			
	1. Labour			
	Mason	0.75	Hrs @ 125.00	93.75
	Contractor's profit & overhead		20%	18.75
	Total Labour rate			112.50
				112.50
	2. Material		15%	14.06
	Contractor's profit & overhead		20%	2.81
	Total			16.88
	Total Composite rate		129.38	129.40
R.M.	c) Slab upto 6 inches (150mm) thick in stone masonry			
	1. Labour			
	Mason	0.75	Hrs @ 125.00	93.75
	Contractor's profit & overhead		20%	18.75
	Total Labour rate			112.50
				112.50
	2. Material		15%	14.06
	Contractor's profit & overhead		20%	2.81
	Total			16.88
	Total Composite rate		129.38	129.40
R.M.	d) Slab exceeding 6 inches (150mm) thick in stone masonry or plain concrete			
	1. Labour			
	Mason	1.13	Hrs @ 125.00	141.25
	Contractor's profit & overhead		20%	28.25
	Total Labour rate			169.50
				169.50
	2. Material		15%	21.19
	Contractor's profit & overhead		20%	4.24
	Total			25.43
	Total Composite rate		194.93	194.95
R.M.	e) Slab upto 6 inches (150mm) thick in R.C.C			
	1. Labour			
	Mason	1.00	Hrs @ 125.00	125.00
	Contractor's profit & overhead		20%	25.00
	Total Labour rate			150.00
				150.00
	2. Material		15%	18.75
	Contractor's profit & overhead		20%	3.75
	Total			22.50
	Total Composite rate		172.50	172.50
R.M.	f) Slab exceeding 6 inches (150mm) thick in R.C.C			
	1. Labour			
	Mason	1.50	Hrs @ 125.00	187.50
	Contractor's profit & overhead		20%	37.50
	Total Labour rate			225.00
				225.00
	2. Material		15%	28.13
	Contractor's profit & overhead		20%	5.63
	Total			33.75
	Total Composite rate		258.75	258.75

Item No. 13 - 43 - 1

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each	Hoisting R.S. beams or wooden beams and placing in position.			
	1. Labour			
	Labourer	2.00	Hrs @ 87.50	175.00
	Contractor's profit & overhead		20%	35.00
	Total Labour rate			<u>210.00</u>
				210.00
	Item No. 13 - 44 - 1			
Each	Hoisting and placing in position wooden ballies over roof.			
	1. Labour			
	Labourer	0.50	Hrs @ 87.50	43.75
	Contractor's profit & overhead		20%	8.75
	Total Labour rate			<u>52.50</u>
				52.50
	Item No. 13 - 45 - 1			
Sq.m.	Extra for roofing of any description other than R.C.C. in any floor for every 5 ft. (1.5m) height or part thereof beyond 15 ft. (4.5 m)			
	Detail of cost for 10 sq.m.			
	Considering a roof 12.0 m high			
	1. Labour			
	Extra cooly for carrying material			
	Labourer	8.50	Hrs @ 87.50	743.75
	Contractor's profit & overhead		20%	148.75
	Total Labour rate per Sq. m.			<u>17.85</u>
	Scaffolding for hoisting		50%	371.88
	Sundries		5%	37.19
				<u>409.06</u>
	Contractor's profit & overhead		20%	81.81
	Rate			<u>490.88 (A)</u>
	This rate (A) is for height between 15 ft. to 40 ft. (4.50 m to 12 m.)			
	Rate for 1.5 m = $A \times 1.50 / 7.50$			116.03
	Total Composite rate			<u>29.45</u>
				29.45
	Item No. 13 - 46 - 1			
Sq.m.	Extra for ridges, valleys, gutters etc. of any description for every 5ft (1.5m) height or part thereof beyond 15 ft (4.5m)			
	Detail of cost for 30.5 R.M.			
	1. Labour			
	Extra for work at height between 15 ft. to 40 ft. (4.5 m to 12 m.)			
	Black smith	1.50	Hrs @ 112.00	168.00
	Carpenter	1.50	Hrs @ 125.00	187.50
	Labourer	10.00	Hrs @ 87.50	875.00
				<u>1230.50</u>
	Contractor's profit & overhead		20%	246.10
	Total Labour rate per Sq. m.			<u>29.53</u>
				29.55
	Scaffolding for hoisting		5%	61.53
	Contractor's profit & overhead		20%	12.31
	Total			<u>73.83</u>
	Total Composite rate per Sq. m.			<u>31.01</u>
				31.00
	Item No. 13 - 47 - 1			
Sq.m.	Extra for ceiling of any description in any floor for every 5 ft. (1.5m) height or part thereof beyond 15 ft. (4.5m)			
	Detail of cost for 125 Sq.m.			
	Considering a ceiling of a hall 45' x 35' at a height of 40 ft.(12 m.)			
	Superficial area of ceiling 45' x 30'	1350	Sq.ft.	
	Material for scaffolding			
	Partal or similar wood of 3" x 3" size			
	Props	7 x 5 x 40	1400	Ft.
	Horizontal braces	7 x 6 x 45	1890	Ft.
	Cross braces	7 x 6 x 30	1260	Ft.
	=		<u>4550</u>	Ft.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)

Add 10% for overlaps & extra pieces of wood required at joints	455	Ft.		
	5005	Ft.		
5005 x 3/12 x 3/12	312.81	Cu.ft.		
2" thick planks for platform for 25% of area =0.25 x 45 x 30 x1/6	56.25	Cu.ft.		
	369.06	Cu.ft.		
Wastage 15%	55.36	Cu.ft.		
	424.42	Cu.ft.		

1. Labour

a) For assembling, removal and clearance

Carpenter	160.00	Hrs	@	125.00	20000.00
Helper	80.00	Hrs	@	75.00	6000.00

b) For carrying material and curing

Labourer	80.00	Hrs	@	87.50	7000.00
Bahishti	32.00	Hrs	@	87.50	2800.00

35800.00

Contractor's profit & overhead

20% 7160.00

Total Labour rate per Sq. m.

68.74

68.75

2. Material

Wood - Partial	424.42	Cu.ft.	@	1200.00	509306.25
Sawing charges	424.42	Cu.ft.	@	87.50	37136.91
Coir string	16.78	Kg.	@	50.00	839.00
Nail of all sizes			@	0.1%	547.28

547829.45 (A)

Assuming 30 uses of scaffolding & timber, cost per use would be

A /30

18260.98

Add for each use, repair charges and coir strings etc.

5% 913.05

19174.03

Contractor's profit & overhead

20% 3,834.81

Total

23,008.84

Rate per Sq. m.

7524.27/125

184.07

Deduct cost of scaffolding for 4.5 m. height.

4% 7.36

191.43 (B)

Rate for 1.5 m.

B x 1.5/7.5

38.29

Rate for ceiling

50% 19.14

Total Composite rate per Sq. m.

87.88

87.90**Item No. 13 - 48 - 1****Sq.m. Providing and laying 1" thick glass wool/roof kool sheets in 1" thick sheet cavity walls**

Detail of cost for 100 Sq.ft.

1. Labour

Carpenter	8.00	Hrs	@	125.00	1000.00
Helper	8.50	Hrs	@	75.00	637.50

1637.50

Contractor's profit & overhead

20% 327.50

Total Labour rate per Sq. m.

211.43

211.45

2. Material

Glass wool 1 inch thick	100.00	Sq.ft	@	30.00	3000.00
Contractor's profit & overhead			@	20%	600.00

Total

3,600.00

Total Composite rate per Sq. m.

598.79

598.80**Item No. 13 - 49 - 1****Sq.m. Providing and laying first class tile roof insulation comprising single layer of tiles 12"x 6"x 1-1/2" grouted with cement sand mortar 1:3 laid over 2.5" thick cement concrete 1:4:8 over glass wool /roof kool sheet wrapped in polythene sheet 300gauge (0.03mm.) over a coat of PB- 4 bitumen layer at the rate of 1.65 Kg./Sq.m.**

Detail of cost for 100 Sq.ft.

1. Labour

Mason	8.00	Hrs	@	125.00	1000.00
Skilled worker	6.50	Hrs	@	125.00	812.50
Semi skilled worker	16.00	Hrs	@	110.00	1760.00

3572.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	714.50	
	Total Labour rate per Sq. m.		461.28	461.30
	2. Material			
	Cement concrete 2.5" thick 1:4:8	22.92	Cu.ft. @ 30.00	687.60
	Cement sand mortar (1:3) for grouting	2.68	Cu.ft. @ 172.74	462.93
	Brick tiles	400.00	Nos. @ 6.20	2480.00
	Bitumen 60/70	18.15	Kg. @ 78.00	1415.70
	Fuel wood	5.00	Kg. @ 15.00	75.00
	Glass wool 1 inch thick	100.00	Sq.ft @ 30.00	3000.00
	Polythene sheet	120.00	Sq.ft @ 7.43	892.19
				9013.43
	Contractor's profit & overhead	20%	1,802.69	
	Total		10,816.11	
	Total Composite rate per Sq. m.		1,625.09	1625.10

Item No. 13 - 50 - 1

Sq.m. Providing and laying first class tile roof insulation comprising single layer of tiles 12"x 6"x 1-1/2" grouted with cement sand mortar 1:3 laid over 3" thick mud plaster over glass wool /roof kool sheet wrapped in polythene sheet 300 gauge (0.03 mm.) over a coat of PB-4 bitumen layer at the rate of 1.65 Kg/Sq.m.

Detail of cost for 100 Sft.

1. Labour

Bahishti	6.50	Hrs	@	87.50	568.75
Skilled worker	16.00	Hrs	@	125.00	2000.00
Semi skilled worker	8.50	Hrs	@	110.00	935.00
					3503.75

Contractor's profit & overhead	20%	700.75
Total Labour rate per Sq. m.		452.40

452.40**2. Material**

Earth	25.00	Cu.ft.	@	141.60	3540.07
Mud plaster	8.33	Cu.ft.	@	6.00	49.98
Brick tiles	400.00	Nos.	@	6.20	2480.00
Bitumen 60/70	18.15	Kg.	@	78.00	1415.70
Fuel wood	5.00	Kg.	@	15.00	75.00
Glass wool 1 inch thick	100.00	Sq.ft	@	30.00	3000.00
Polythene sheet	120.00	Sq.ft	@	7.43	892.19
Cowdung	0.07	Cu.ft.	@	3.00	0.21
Cement sand mortar (1:3) for grouting	2.68	Cu.ft.	@	172.74	462.93
					11916.09

Contractor's profit & overhead	20%	2,383.22
Total Composite rate per Sq. m.		1,991.01

1991.00**Item No. 13 - 51**

R.M. Providing and laying G.I. pipes insulation for water supply delivery pipe comprising glass wool, jutoid water proof covered with plaster of paris treatment

a) Upto 1 inch (25 mm) dia. pipe

1. Labour					
Skilled worker	0.25	Hrs	@	125.00	31.25
Semi skilled worker	0.25	Hrs	@	110.00	27.50
					58.75

Contractor's profit & overhead	20%	11.75
Total Labour rate		231.31

231.30**2. Material**

Glass wool 1 inch thick	1.00	R.ft.	@	30.00	30.00
Jute 2" wide including jute rope tie	1.00	R.ft.	@	40.00	40.00
Scaffolding and sundries and plaster of paris coating				30%	21.00
					91.00

Contractor's profit & overhead	20%	18.20
Total Composite rate		589.60

589.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	b) Upto 1" to 2" (25 mm to 50 mm) dia. pipe		
	Add 15% on item 13 - 51 (a) above		
	1. Labour	67.56	
	Contractor's profit & overhead	20% 13.51	
	Total Labour rate	<u>266.01</u>	266.00
	2. Material	104.65	
	Contractor's profit & overhead	20% 20.93	
	Total Composite rate	<u>678.04</u>	678.05
	c) Upto 2" to 3" (50 mm to 75 mm) dia. pipe		
	Add 30% on item 13 - 51 (a) above		
	1. Labour	76.38	
	Contractor's profit & overhead	20% 15.28	
	Total Labour rate	<u>300.70</u>	300.70
	2. Material	118.30	
	Contractor's profit & overhead	20% 23.66	
	Total Composite rate	<u>766.47</u>	766.45
	Item No. 13 - 52		
%	Add extra for respective payable item of ground floor		
	a) For first floor	10%	0.10
	b) For every additional floor above first floor	7.5%	0.08

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 13-53				
Providing and fixing C.I. pipe spouts of required length and dia including fixing in cement mortar 1:4				
R.M.	a) 2" (50 mm) dia.			
	1. Labour			
	Mason	0.39	Hrs @ 125.00	48.75
	Labourer	0.20	Hrs @ 87.50	17.50
				66.25
	Contractor's profit & overhead		20%	13.25
	Total Labour rate			79.50
				79.50
	2. Material			
	C.I. pipe spout 50 mm dia	0.65	R.M. @ 687.50	449.63
	Cement mortar		10%	44.96
				494.59
	Contractor's profit & overhead		20%	89.93
	Total Composite rate			664.01
				664.00
R.M.	b) 3" (75 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 13-53(a)	79.50
				79.50
	2. Material			
	C.I. pipe spout 80 mm dia	0.91	R.M. @ 875.00	796.25
	Cement mortar		10%	79.63
				875.88
	Contractor's profit & overhead		20%	175.18
	Total Composite rate			1,130.55
				1130.55
R.M.	c) 4" (100 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 13-53(a)	79.50
				79.50
	2. Material			
	C.I. pipe spout 100 mm dia	1.00	R.M. @ 1062.50	1,062.50
	Cement mortar		10%	106.25
				1,168.75
	Contractor's profit & overhead		20%	233.75
	Total Composite rate			1,482.00
				1482.00
Item No. 13-54				
Providing and fixing Non Asbestos Cement Fibre pipe spouts of required length and dia including fixing in cement mortar 1 : 4.				
R.M.	a) 2.5" (65 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 13-53(a)	79.50
				79.50
	2. Material			
	Non Asbestos Cement Fibre pipe spouts 60 mm dia	1.00	R.M. @ 390.00	390.00
	Cement mortar		10%	39.00
				429.00
	Contractor's profit & overhead		20%	85.80
	Total Composite rate			594.30
				594.30
R.M.	b) 3" (75 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 13-53(a)	79.50
				79.50
	2. Material			
	Non Asbestos Cement Fibre pipe spouts 80 mm dia	1.00	R.M. @ 425.00	425.00
	Cement mortar		10%	42.50
				467.50
	Contractor's profit & overhead		20%	93.50
	Total Composite rate			640.50
				640.50
R.M.	c) 4" (100 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 13-53(a)	79.50
				79.50
	2. Material			
	Non Asbestos Cement Fibre pipe spouts 100 mm dia	1.00	R.M. @ 495.00	495.00
	Cement mortar		10%	49.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	544.50	
Total Composite rate		<u>108.90</u>	732.90

Item No. 13-55

Providing and fixing Non Asbestos Cement Fibre rain water down pipe with sealing collars, bolts and nuts and tail piece fixed in cement concrete 1:2:4 including filling joints with asbestos rope and cement mortar 1:2

Detail of cost for 3 m

R.M.	a) 3" (75 mm) dia.						
	1. Labour						
	Plumber	1.00	Hrs	@	125.00	125.00	
	Mason	1.00	Hrs	@	125.00	125.00	
						<u>250.00</u>	
	Contractor's profit & overhead				20%	50.00	
	Total Labour rate					<u>100.00</u>	100.00
	2. Material						
	Non Asbestos Cement Fibre plain bend 80 mm dia	3.00	No.	@	325.00	975.00	
	Other materials						
	Bolts & Nuts	4.00	No.	@	12.00	48.00	
	A.C. rope joint filler				5%	51.15	
	Cement concrete				10%	<u>97.50</u>	
						196.65	
	Total					1,171.65	
	Contractor's profit & overhead				20%	234.33	
	Total Composite rate					<u>568.66</u>	568.65

R.M.	b) 4" (100 mm) dia.						
	1. Labour						
	Total Labour rate					79.28	79.30
	2. Material						
	Non Asbestos Cement Fibre plain bend 100 mm dia	3.00	No.	@	375.00	1,125.00	
	Other materials					<u>196.65</u>	
						1,321.65	
	Contractor's profit & overhead				20%	225.00	
	Total Composite rate					<u>594.83</u>	594.85

Item No. 13-56

Providing and fixing shoe of Non Asbestos Cement Fibre rain water down pipe with mild steel fastener fixed in cement concrete 1:2:4 including filling joints with cement mortar 1:2

Each	a) 3" (75 mm) dia.						
	1. Labour						
	Plumber	0.50	Hrs	@	125.00	62.50	
	Mason	0.50	Hrs	@	125.00	62.50	
	Labourer	0.50	Hrs	@	87.50	43.75	
						<u>168.75</u>	
	Contractor's profit & overhead				20%	33.75	
	Total Labour rate					<u>202.50</u>	202.50
	2. Material						
	Shoe 80 mm	1.00	No.	@	75.00	75.00	
	Other materials						
	M.S. fastner	1.00	No.	@	10.00	10.00	
	Non Asbestos Cement Fibre rope joint filler				5%	4.25	
	Mortar				5%	3.75	
	Cement concrete				10%	<u>7.50</u>	
						25.50	
	Total					100.50	
	Contractor's profit & overhead				20%	20.10	
	Total Composite rate					<u>323.10</u>	323.10
Each	b) 4" (100 mm) dia.						
	1. Labour						
	Total Labour rate					202.50	202.50
	2. Material						
	Shoe 100 mm	1.00	No.	@	95.00	95.00	
	Other materials					<u>41.65</u>	
						136.65	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	19.00	
	Total Composite rate		358.15	358.15
	Item No. 13-57			
	Providing and fixing Non Asbestos Cement Fibre plain bend of any degree for rain water down pipe with mild steel fasteners fixed in cement concrete 1:2:4 including filling joints with cement mortar 1:2.			
Each	a) 3" (75 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 13-56(a)	202.50	202.50
	2. Material			
	Non Asbestos Cement Fibre plain bend 80 mm dia	1.00	No. @ 325.00	325.00
	Other materials			41.65
				366.65
	Contractor's profit & overhead	20%	73.33	
	Total Composite rate		642.48	642.50
Each	b) 4" (100 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 13-56(a)	202.50	202.50
	2. Material			
	Non Asbestos Cement Fibre plain bend 100 mm dia	1.00	No. @ 375.00	375.00
	Other materials			41.65
				416.65
	Contractor's profit & overhead	20%	83.33	
	Total Composite rate		702.48	702.50
	Item No. 13-58			
	Providing and fixing with 6" (150 mm) projection Non Asbestos Cement Fibre offset for rain water down pipe with mild steel fasteners fixed in cement concrete 1:2:4 including filling joints with cement mortar 1:2.			
Each	a) 3" (75 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 13-56(a)	202.50	202.50
	2. Material			
	Off-set	1.00	No. @ 195.00	195.00
	Other materials			41.65
				236.65
	Contractor's profit & overhead	20%	47.33	
	Total Composite rate		486.48	486.50
Each	b) 4" (100 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 13-56(a)	202.50	202.50
	2. Material			
	Off-set	1.00	No. @ 210.00	210.00
	Other materials			41.65
				251.65
	Contractor's profit & overhead	20%	42.00	
	Total Composite rate		496.15	496.15
	Item No. 13-59			
	Providing and fixing with Non Asbestos Cement Fibre head of any shape for rain water down pipe with mild steel fasteners fixed in cement concrete 1:2:4 including filling joints with cement mortar 1:2.			
Each	a) 3" (75 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 13-56(a)	202.50	202.50
	2. Material			
	Head	1.00	No. @ 115.00	115.00
	Other materials			41.65
				156.65
	Contractor's profit & overhead	20%	31.33	
	Total Composite rate		390.48	390.50
Each	b) 4" (100 mm) dia.			
	1. Labour			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate	Same as in item 13-56(a)	202.50	202.50
	2. Material			
	Head	1.00 No. @	125.00	125.00
	Other materials			41.65
				<u>166.65</u>
	Contractor's profit & overhead	20%		33.33
	Total Composite rate			<u>402.48</u>
				402.50
	Item No. 13-60			
	Providing and fixing U-P.V.C rain water down pipe with mild steel clamps, bolts and nuts fixed in cement concrete 1:2:4.			
	Detail of cost for 3 m.			
R.M.	a) 3" (75 mm) dia.			
	1. Labour			
	Plumber	1.00 Hrs @	125.00	125.00
	Mason	1.00 Hrs @	125.00	125.00
	Labourer	0.57 Hrs @	87.50	49.88
				<u>299.88</u>
	Contractor's profit & overhead	20%		59.98
	Total Labour rate			<u>119.95</u>
				119.95
	2. Material			
	U-P.V.C. conduit pipe 75 mm dia	10.02 R.M. @	125.90	1,261.52
	Other materials			
	Bolts and nuts	5.00 No. @	2.00	10.00
	Clamps	4.00 No. @	12.00	48.00
	Mortar		5%	2.90
	Cement concrete		10%	5.80
				<u>66.70</u>
	Total			<u>1,328.22</u>
	Contractor's profit & overhead	20%		265.64
	Total Composite rate			<u>651.24</u>
				651.25
R.M.	b) 4" (100 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 13-60(a)	119.95	119.95
	2. Material			
	U-P.V.C. conduit pipe 100 mm dia	3.00 R.M. @	196.25	588.75
	Other materials			66.70
				<u>655.45</u>
	Contractor's profit & overhead	20%		131.09
	Total Composite rate			<u>382.13</u>
				382.15
R.M.	c) 6" (150 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 13-60(a)	119.95	119.95
	2. Material			
	U-P.V.C. conduit pipe 150 mm dia	3.00 R.M. @	196.25	588.75
	Other materials			66.70
				<u>655.45</u>
	Contractor's profit & overhead	20%		131.09
	Total Composite rate			<u>382.13</u>
				382.15
	Item No. 13-61			
	Providing and fixing U-P.V.C. socket for rain water downpipe.			
Each	a) 3" (75 mm) dia.			
	1. Labour			
	Plumber	0.33 Hrs @	125.00	41.25
	Contractor's profit & overhead	20%		8.25
	Total Labour rate			<u>49.50</u>
				49.50
	2. Material			
	U-P.V.C. socket 75 mm dia	1.00 No. @	221.45	221.45
	Contractor's profit & overhead	20%		44.29
	Total Composite rate			<u>315.24</u>
				315.25
Each	b) 4" (100 mm) dia.			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	1. Labour			
	Total Labour rate	Same as in item 13.61(a)	49.50	49.50
	2. Material			
	U-P.V.C. socket 100 mm dia	1.00	No. @ 290.75	290.75
	Contractor's profit & overhead		20%	58.15
	Total Composite rate			398.40
Each	c) 6" (150 mm) dia.			
	1. Labour			
	Plumber	0.33	Hrs @ 125.00	41.25
	Contractor's profit & overhead		20%	8.25
	Total Labour rate			49.50
	2. Material			
	U-P.V.C. socket 150 mm dia	1.00	No. @ 221.45	221.45
	Contractor's profit & overhead		20%	44.29
	Total Composite rate			315.24
	Item No. 13-62			
	Providing and fixing U-P.V.C bend of any degree for rain water down pipe with M.S. clamps bolts and nuts in cement concrete 1:2:4.			
Each	a) 3" (75 mm) dia.			
	1. Labour			
	Plumber	1.00	Hrs @ 125.00	125.00
	Mason	2.00	Hrs @ 125.00	250.00
	Labourer	1.00	Hrs @ 87.50	87.50
				462.50
	Contractor's profit & overhead		20%	92.50
	Total Labour rate			555.00
	2. Material			
	U-P.V.C. bend 75 mm dia	2.31	No. @ 268.70	620.70
	Other materials			
	Bolts and nuts	2.00	No. @ 2.00	4.00
	Clamps	1.00	No. @ 12.00	12.00
	Cement concrete		3%	0.48
				16.48
	Total			637.18
	Contractor's profit & overhead		20%	127.44
	Total Composite rate			1,319.61
Each	b) 4" (100 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 13-62(a)	555.00	555.00
	2. Material			
	U-P.V.C. bend 100 mm dia	1.00	No. @ 391.55	391.55
	Other materials			16.48
				408.03
	Contractor's profit & overhead		20%	81.61
	Total Composite rate			1,044.64
Each	a) 6" (150 mm) dia.			
	1. Labour			
	Plumber	1.00	Hrs @ 125.00	125.00
	Mason	2.00	Hrs @ 125.00	250.00
	Labourer	1.00	Hrs @ 87.50	87.50
				462.50
	Contractor's profit & overhead		20%	92.50
	Total Labour rate			555.00
	2. Material			
	U-P.V.C. bend 150 mm dia	2.31	No. @ 268.70	620.70
	Other materials			
	Bolts and nuts	2.00	No. @ 2.00	4.00
	Clamps	1.00	No. @ 12.00	12.00
	Cement concrete		3%	0.48
				16.48
	Total			637.18
	Contractor's profit & overhead		20%	127.44
	Total Composite rate			1,319.61

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 13-63

Providing and fixing U-P.V.C offset of any degree for rain-water down pipe on walls with M.S. clamps, bolts and nuts in cement concrete 1:2:4.

Each a) 3" (75 mm) dia.

1. Labour

Total Labour rate	Same as in item 13.62(a)	555.00	555.00
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2. Material

U-P.V.C. off-set 75 mm	1.00	No.	@	216.83	216.83
Other materials					16.48

233.31

Contractor's profit & overhead

20% 46.66

Total Composite rate					834.97	834.95
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Each b) 4" (100 mm) dia.

1. Labour

Total Labour rate	Same as in item 13-62(a)	555.00	555.00
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2. Material

U-P.V.C. off-set 100 mm	1.00	No.	@	221.45	221.45
Other materials					49.85

271.30

Contractor's profit & overhead

20% 54.26

Total Composite rate					880.55	880.55
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Each b) 6" (150 mm) dia.

1. Labour

Total Labour rate	Same as in item 13-62(a)	555.00	555.00
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2. Material

U-P.V.C. off-set 100 mm	1.00	No.	@	221.45	221.45
Other materials					49.85

271.30

Contractor's profit & overhead

20% 54.26

Total Composite rate					880.55	880.55
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Item No. 13-64

Providing and fixing 3/16" (5 mm) thick M.S. caps of approved size and shape on top of chimney of R.C.C. pipe including two coats of paint on priming coat.

Each a) 4" (100 mm) dia.

1. Labour

Labourer	0.75	Hrs	@	87.50	65.63
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Contractor's profit & overhead				20%	13.13
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Total Labour rate					78.75	78.75
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2. Material

M.S. cap 4" size	0.60	No.	@	550.00	330.00
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Contractor's profit & overhead				20%	66.00
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Total Composite rate					461.63	461.65
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Each b) 6" (150 mm) dia.

1. Labour

Total Labour rate	Same as in item 31-29(a)	78.75	78.75
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2. Material

M.S. cap 6" size	0.66	No.	@	750.00	497.25
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Contractor's profit & overhead				20%	99.45
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Total Composite rate					596.70	596.70
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 13-65

Providing and fixing PVC caps of approved size and shape on top of chimney of R.C.C. pipe.

Each a) 4" (100 mm) dia.

1. Labour

Total Labour rate	Same as in item 13-64(a)	78.75	78.75
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2. Material

U-PVC cap 4" size	1.00	No.	@ 90.00	90.00	
Contractor's profit & overhead			20%	18.00	
Total Composite rate				<u>186.75</u>	186.75

Each b) 6" (150 mm) dia.

1. Labour

Total Labour rate	Same as in item 13-64(a)	78.75	78.75
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2. Material

U-PVC cap 6" size	1.00	No.	@ 270.00	270.00	
Contractor's profit & overhead			20%	54.00	
Total Composite rate				<u>402.75</u>	402.75

Item No. 13-66**Sq.m. a) Extruded Polystyrene Rigid board with thickness 50 mm is installed**

1. Labour

	0.40	Hrs	@ 65.00	26.00	
Labour rate per Sq. m.				2.60	
Contractor's profit & overhead			20%	0.52	
				<u>3.12</u>	3.10

2. Material

Extruded Polystyrene, 50mm thickness	10.00	Sq.m	@ 888.24	8,882.38	
Water Charges			0.50%	44.41	
Contractor's profit & overhead			20%	1,785.36	
Total Composite rate per Sq. m.				<u>1,069.89</u>	1069.90

Sq.m. b) Extruded Polystyrene Rigid board with thickness 38 mm is installed

1. Labour

	0.31	Hrs	@ 65.00	20.15	
Labour rate per Sq. m.				2.02	
Contractor's profit & overhead			20%	0.40	
Total Labour rate per Sq. m.				<u>2.42</u>	2.40

2. Material

Extruded Polystyrene, 1-1/2 " thickness	10.00	Sq.m	@ 796.24	7,962.40	
Water Charges			0.50%	39.81	
Contractor's profit & overhead			20%	1,600.44	
Total Composite rate per Sq. m.				<u>962.68</u>	962.70

Sq.m. c) Extruded Polystyrene Rigid board with thickness 25 mm is installed

1. Labour

	0.25	Hrs	@ 65.00	16.25	
Labour rate per Sq. m.				1.63	
Contractor's profit & overhead			20%	0.33	
				<u>1.95</u>	1.95

2. Material

Extruded Polystyrene, 25mm thickness	10.00	Sq.m	@ 538.00	5,380.00	
Water Charges			0.50%	26.90	
Contractor's profit & overhead			20%	1,081.38	
Total Composite rate per Sq. m.				<u>650.78</u>	650.80

Item No. 13-67 - 1

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Removing of existing brick tiles on roof, and Providing and laying water proofing treatment on roofs by applying cement slurry mixed with water proofing cement compound consisting of;

a). Applying first layer of slurry of cement @ 0.488 kg/ sqm mixed with water proofing cement compound @ 0.253 kg/ sqm, after surface preparation,

b).Laying second layer of fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm,

c). Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/ sqm mixed with water proofing cement compound @ 0.670 kg/ sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.

d) Fourth and final layer of removed brick tile with cement mortar

Detail of Cost for 10 sq.m.

Sq.M

1. Labour

Mason	16.00	Hrs	@	125.00	2,000.00
Labourer	10.30	Hrs	@	87.50	901.25
Semi skilled worker	8.00	Hrs	@	110.00	880.00
Bahishti	2.00	Hrs	@	87.50	175.00
					<u>3,956.25</u>

Contractor's profit & overhead

25%

989.06

Total Labour rate

494.53

494.55

2. Material

Cement for Polymer Cement Coating	0.39	bag	@	525.00	205.17
Cement for mortar	0.55	bag	@	525.00	288.75
Sand for mortar	2.15	cft	@	882.75	1,897.91
Polymer modified cementation coating	9.69	kg	@	250.00	2,422.50
Fibre glass cloth 10% Extra	11.00	sq.m	@	65.00	715.00
Removed Bricks to be re-used for 10 Sq.M	380 Nos				
Brick Tiles which cannot be re-used	25% of 380Nos	95.00	Nos	@	6.50
					617.50
Water Charges				1.50%	92.20
					<u>6,239.03</u>

Contractor's profit & overhead

25%

1,559.76

Total Composite rate

7,798.79

7798.80

Item No. 13-68 - 1

Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively), The coating thickness and the methodology of application shall strictly as per manufacturer's specifications and as approved by engineer In charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-charge (@ of atleast 0.5 litre per Sq.M.)

Detail of Cost for 10 sq.m.

Sq.M

1. Labour

Painter	4.00	Hrs	@	75.00	300.00
Painter helper	4.00	Hrs	@	71.00	284.00
					<u>584.00</u>

Contractor's profit & overhead

25%

146.00

Total Labour rate

73.00

73.00

2. Material

High Albedo paint	5.00 litre	@	1,050	5250.00
Water Charges			1.50%	90.80
				<u>5340.80</u>

Contractor's profit & overhead

25%

1,335.20

Total Composite rate

667.60

667.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 13-69 - 1

Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.

Detail of Cost for 10 sq.m.

Sq.M**1. Labour**

Tile layer	8.00	Hrs	@	130	1040
Floor grinder with machine	8.00	Hrs	@	88	700
Labourer	8.00	Hrs	@	88	700
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					2835
Contractor's profit & overhead				20%	567
Total Labour rate					340

340.20**2. Material**

Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm)	10.30	Sq. M	@	500	5150.00
Cement - white	44.00	Kg.	@	15.00	660.00
Cement OPC	44.00	Kg.	@	10.50	462.00
Cement mortar 1 :4	0.13	Cu.m.	@	4839.30	629.11
Water charges				1.5%	103.52
					7004.62

3. Sundries

Total of 2 & 3				5%	141.75
Contractor's profit & overhead				20%	1429.27
Total Composite rate					1197.76

1197.75

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Item No. 14-1			
Providing and laying hand mixed cement concrete bed under floors using graded Crushed Aggregate upto 1-1/2" (37 mm) and down gauge complete with leveling, ramming, watering and curing.			
Cu.m. a)	1 : 3 : 6		
	1. Labour		
	Same as for item 5-2(a)		1503.50
	Extra labour for compaction:		
	Labourer	0.50 Hrs @ 87.50	43.75
			1547.25
	Contractor's profit & overhead	20%	309.45
	Total Labour rate		1856.70
			1856.70
	2. Material		
	Same as for item 5-2(A)		3333.63
	Extra for using crushed stone		
	Approved Crushed Aggregate 1-1/2" & down gauge	0.91 Cu.m. @ 0.00	0.00
			3333.63
	Contractor's profit & overhead	20%	666.73
	Total Composite rate		5857.06
			5857.05
Cu.m. b)	1 : 4 : 8		
	1. Labour		
	Same as for item 5-2(a)		1503.50
	Extra labour for compaction:		
	Labourer	0.50 Hrs @ 87.50	43.75
			1547.25
	Contractor's profit & overhead	20%	309.45
	Total Labour rate		1856.70
			1856.70
	2. Material		
	Same as for item 5-2(b)		2738.34
	Extra for using crushed stone		
	Approved Crushed Aggregate 1-1/2" & down gauge	0.92 Cu.m. @ 0.00	0.00
			2738.34
	Contractor's profit & overhead	20%	547.67
	Total Composite rate		5142.71
			5142.70
Cu.m. c)	1 : 5 : 10		
	1. Labour		
	Same as for item 14-1(a)		1547.25
	Contractor's profit & overhead	20%	309.45
	Total Labour rate		1856.70
			1856.70
	2. Material		
	Same as for item 5-2(b)		2419.38
	Extra for using crushed stone		
	Approved Crushed Aggregate 1-1/2" & down gauge	0.94 Cu.m. @ 0.00	0.00
			2419.38
	Contractor's profit & overhead	20%	483.88
	Total Composite rate		4759.95
			4759.95

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-2

- a) Providing and laying 1:2:4 cement concrete floor using using crushed aggregate 3/4" (19mm) and down gauge in ground floor laid in panels including formwork, consolidation, finishing and curing.

Detail of cost for 10 Sq. m.

	Cost of material for 1 Cu.m., same as item 5-8(c)	4971.92			
Sq.m.	i) 1-1/2" (37mm) nominal thick flooring				
	1. Labour				
	Mason	6.00	Hrs @	125.00	750.00
	Shovel man	0.75	Hrs @	87.50	65.63
	Labourer	1.75	Hrs @	87.50	153.13
	Bahishti	3.00	Hrs @	87.50	262.50
					<u>1231.25</u>
	Contractor's profit & overhead			20%	246.25
	Total Labour rate				<u>147.75</u>
					147.75
	2. Material				
	Concrete 1:2:4 10 x 37.5 /1000	0.375	Cu.m. @	4971.92	1864.47
	3. Formwork and sundries			15%	279.67
	Total of 2 & 3				<u>2144.14</u>
	Contractor's profit & overhead			20%	428.83
	Total Composite rate				<u>405.05</u>
					405.05
Sq.m.	ii) 2" (50 mm) nominal thick flooring				
	1. Labour				
	Mason	7.00	Hrs @	125.00	875.00
	Shovel man	1.00	Hrs @	87.50	87.50
	Labourer	2.50	Hrs @	87.50	218.75
	Bahishti	4.00	Hrs @	87.50	350.00
					<u>1531.25</u>
	Contractor's profit & overhead			20%	306.25
	Total Labour rate				<u>183.75</u>
					183.75
	2. Material				
	Concrete 1:2:4 10 x 50 /1000	0.55	Cu.m. @	4971.92	2734.56
	3. Formwork and sundries			15%	410.18
	Total of 2 & 3				<u>3144.74</u>
	Contractor's profit & overhead			20%	628.95
	Total Composite rate				<u>561.12</u>
					561.10
Sq.m.	iii) 3" (75 mm) nominal thick flooring				
	1. Labour				
	Mason	8.00	Hrs @	125.00	1000.00
	Shovel man	1.50	Hrs @	87.50	131.25
	Labourer	3.50	Hrs @	87.50	306.25
	Bahishti	5.00	Hrs @	87.50	437.50
					<u>1875.00</u>
	Contractor's profit & overhead			20%	375.00
	Total Labour rate				<u>225.00</u>
					225.00
	2. Material				
	Concrete 1:2:4 10 x 75 /1000	0.75	Cu.m. @	4971.92	3728.94
	3. Formwork and sundries			15%	559.34
	Total of 2 & 3				<u>4288.28</u>
	Contractor's profit & overhead			20%	857.66
	Total Composite rate				<u>739.59</u>
					739.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. iv) 4" (100 mm) nominal thick flooring

1. Labour					
Mason	9.00	Hrs	@	125.00	1125.00
Shovel man	1.75	Hrs	@	87.50	153.13
Labourer	4.00	Hrs	@	87.50	350.00
Bahishti	6.00	Hrs	@	87.50	525.00
					<u>2153.13</u>
Contractor's profit & overhead				20%	430.63
Total Labour rate					<u>258.38</u>
					258.40
2. Material					
Concrete 1:2:4	10 x 100 /1000	1.00	Cu.m.	@	4971.92
3. Formwork and sundries				15%	745.79
Total of 2 & 3					<u>5717.71</u>
Contractor's profit & overhead				20%	1143.54
Total Composite rate					<u>944.50</u>
					944.50

Sq.m. v) 5" (125 mm) nominal thick flooring

1. Labour					
Mason	9.50	Hrs	@	125.00	1187.50
Shovel man	2.00	Hrs	@	87.50	175.00
Labourer	5.00	Hrs	@	87.50	437.50
Bahishti	7.00	Hrs	@	87.50	612.50
					<u>2412.50</u>
Contractor's profit & overhead				20%	482.50
Total Labour rate					<u>289.50</u>
					289.50
2. Material					
Concrete 1:2:4	10 x 125 /1000	1.25	Cu.m.	@	4971.92
3. Formwork and sundries				15%	932.24
Total of 2 & 3					<u>7147.14</u>
Contractor's profit & overhead				20%	1429.43
Total Composite rate					<u>1147.16</u>
					1147.15

Sq.m. vi) Extra if ordinary portland (grey cement) mixed with pigment of approved shade and color is used in topping of 1/8" (3mm) thickness

1. Labour					
Mason	0.50	Hrs	@	125.00	62.50
Labourer	5.00	Hrs	@	87.50	437.50
Total					<u>500.00</u>
Contractor's profit & overhead				20%	100.00
Total Labour rate					<u>60.00</u>
					60.00
2. Material					
Mortar	10 x 3.2 /1000	0.03	Cu.m.	@	4971.92
Pigment	0.03 x 10% @ 1400 Kg./Cu.m.	4.32	Kg.	@	82.50
					<u>356.40</u>
3. Formwork and sundries				15%	75.83
Total of 2 & 3					<u>581.39</u>
Contractor's profit & overhead				20%	116.28
Total Composite rate					<u>129.77</u>
					129.75

b) Providing and laying 1:2:4 cement concrete floor using crushed aggregate 3/4" (19mm) and down gauge in ground floor laid in panels using glass strips but excluding the cost of glass strips including consolidation, finishing and curing.

Detail of cost for 10 Sq. m.

Cost of material for 1 Cu.m., same as item 5-8(c) 4971.92

Sq.m. i) 1-1/2" (37mm) nominal thick flooring

1. Labour					
Mason	6.00	Hrs	@	125.00	750.00
Shovel man	1.00	Hrs	@	87.50	87.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Labourer	0.50	Hrs @ 87.50	43.75
	Bahishti	3.00	Hrs @ 87.50	262.50
				<u>1143.75</u>
	Contractor's profit & overhead		20%	228.75
	Total Labour rate			<u>137.25</u> 137.25
	2. Material			
	Concrete 1:2:4 10 x 37.5 /1000	0.375	Cu.m. @ 4971.92	1864.47
	3. Sundries		5%	<u>93.22</u>
	Total of 2 & 3			<u>1957.70</u>
	Contractor's profit & overhead		20%	391.54
	Total Composite rate			<u>372.17</u> 372.15
Sq.m.	ii) 2" (50 mm) nominal thick flooring			
	1. Labour			
	Mason	7.00	Hrs @ 125.00	875.00
	Shovel man	1.00	Hrs @ 87.50	87.50
	Labourer	2.50	Hrs @ 87.50	218.75
	Bahishti	4.00	Hrs @ 87.50	<u>350.00</u>
				1531.25
	Contractor's profit & overhead		20%	306.25
	Total Labour rate			<u>183.75</u> 183.75
	2. Material			
	Concrete 1:2:4 10 x 50 /1000	0.50	Cu.m. @ 4971.92	2485.96
	3. Sundries		5%	<u>124.30</u>
	Total of 2 & 3			<u>2610.26</u>
	Contractor's profit & overhead		20%	522.05
	Total Composite rate			<u>496.98</u> 497.00
Sq.m.	iii) 3" (75 mm) nominal thick flooring			
	1. Labour			
	Mason	8.00	Hrs @ 125.00	1000.00
	Shovel man	1.50	Hrs @ 87.50	131.25
	Labourer	3.50	Hrs @ 87.50	306.25
	Bahishti	5.00	Hrs @ 87.50	<u>437.50</u>
				1875.00
	Contractor's profit & overhead		20%	375.00
	Total Labour rate			<u>225.00</u> 225.00
	2. Material			
	Concrete 1:2:4 10 x 75 /1000	0.75	Cu.m. @ 4971.92	3728.94
	3. Sundries		5%	<u>186.45</u>
	Total of 2 & 3			<u>3915.39</u>
	Contractor's profit & overhead		20%	783.08
	Total Composite rate			<u>694.85</u> 694.85
	c) Extra above item 14-2(a) and 14-2(b)			
Sq.m.	i) Extra for basement			
	Extra labour for lift			
	Labourer	10.00	Hrs @ 87.50	875.00
	Contractor's profit & overhead		20%	175.00
	Total Labour rate			<u>105.00</u> 105.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. ii) Extra for first floor

Extra labour for lift					
Labourer	12.00	Hrs	@	87.50	1050.00
Contractor's profit & overhead				20%	210.00
Total Labour rate					<u>126.00</u>
					126.00

Sq.m. iii) Extra for every additional floor above first floor

Extra labour for lift					
Labourer	11.50	Hrs	@	87.50	1006.25
Contractor's profit & overhead				20%	201.25
Total Labour rate					<u>120.75</u>
					120.75

Item No. 14-3**Tonne a) Extra for providing and using white cement instead of ordinary portland cement**

Cost of white cement	1.00	M.Ton	@	15000	15000.00
Cost of ordinary portland cement	1.00	M.Ton	@	10500	10500.00
Difference in cost					<u>25500.00</u>
Contractor's profit & overhead				20%	5100.00
Total Composite rate					<u>30600.00</u>
					30600.00

Sq.m. b) Extra for providing and laying 4" (100 mm) thick sand cushion under floor.

Total Composite rate (twice of item 21-42)					78.90
					78.90

Sq.m. c) Extra for providing and laying 2" (50 mm) thick sand cushion under floor.

Total Composite rate (same as item 21-42)					43.40
					43.40

Item No. 14-4

Providing and laying terrazzo/mosaic floor in ground floor over 1" (25mm) thick base of 1:2:4 cement concrete using crushed aggregate 3/4" (19mm) and down grade laid in panels or approved pattern including formwork, curing, cutting, removing and polishing.

Detail of cost for 10 sq.m.

Sq.m. a) 1/4" (6mm) thick terrazzo topping 1:2 (one cement & 2 marble chips)

1. Labour					
i) For base:					
Mason	3.50	Hrs	@	125.00	437.50
Shovel man	0.50	Hrs	@	87.50	43.75
Labourer	1.00	Hrs	@	87.50	87.50
Bahishti	1.00	Hrs	@	87.50	87.50
					<u>656.25</u>
ii) For terrazzo topping					
Mason	6.00	Hrs	@	125.00	750.00
Labourer	4.00	Hrs	@	87.50	350.00
Floor grinder with machine (1st stage)	2.00	Hrs	@	87.50	175.00
Floor grinder with machine (2nd stage)	1.00	Hrs	@	87.50	87.50
Bahishti	1.00	Hrs	@	87.50	87.50
Floor polisher	6.00	Hrs	@	87.50	525.00
					<u>1975.00</u>
Total					2631.25
Contractor's profit & overhead				20%	526.25
Total Labour rate					<u>315.75</u>
					315.75
2. Material					
i) For base:					
Concrete 1:2:4	10 x 25/1000	0.25	Cu.m.	@	4971.92
					1242.98
ii) For Terrazzo topping:					
Cement OPC		0.055	M.Ton	@	10500.00
					574.35

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Marble chips	112.00 Kg. @ 5.00	560.00
	Marble powder	56.00 Kg. @ 6.00	336.00
	Carborandum stone	0.25 No. @ 155.00	38.75
	Mansion polish	0.25 Kg. @ 315.00	78.75
			<u>2830.83</u>
	3. Formwork and sundries	1.5%	72.09
	Total of 2 & 3		<u>2902.92</u>
	Contractor's profit & overhead	20%	580.58
	Total Composite rate		<u>664.10</u>
			664.10

Sq.m. b) 3/8" (9mm) thick terrazzo topping 1:2 (one cement & 2 marble chips)

Detail of cost for 10 sq.m.

1. Labour

i) For base:

Same as item 14-4(a)

656.25

ii) For terrazzo topping

Mason	6.00	Hrs	@	125.00	750.00
Labourer	4.00	Hrs	@	87.50	350.00
Floor grinder with machine (1st stage)	3.00	Hrs	@	87.50	262.50
Floor grinder with machine (2nd stage)	1.00	Hrs	@	87.50	87.50
Bahishti	1.00	Hrs	@	87.50	87.50
Floor polisher	6.00	Hrs	@	87.50	525.00
					<u>2718.75</u>

Contractor's profit & overhead 20% 543.75

Total Labour rate 326.25**326.25**

2. Material

i) For base:

Concrete 1:2:4 10 x 25/1000 0.25 Cu.m. @ 4971.92 1242.98

ii) For Terrazzo topping:

Cement OPC	0.082	M.Ton	@	10500.00	861.00
Marble chips	170.00	Kg.	@	5.00	850.00
Marble powder	85.00	Kg.	@	6.00	510.00
Carborandum stone	0.25	No.	@	155.00	38.75
Mansion polish	0.25	Kg.	@	315.00	78.75
					<u>3581.48</u>

3. Formwork and sundries 1.5% 94.50

Total of 2 & 3 3675.98

Contractor's profit & overhead 20% 735.20

Total Composite rate 767.37**767.35****Sq.m. c) 1/2" (13mm) thick terrazzo topping 1:2 (one cement & 2 marble chips)**

Detail of cost for 10 sq.m.

1. Labour

i) For base:

Same as item 14-4(a)

656.25

ii) For terrazzo topping

Mason	6.00	Hrs	@	125.00	750.00
Labourer	4.00	Hrs	@	87.50	350.00
Floor grinder with machine (1st stage)	4.00	Hrs	@	87.50	350.00
Floor grinder with machine (2nd stage)	1.00	Hrs	@	87.50	87.50
Bahishti	1.00	Hrs	@	87.50	87.50
Floor polisher	6.00	Hrs	@	87.50	525.00
					<u>2150.00</u>

Contractor's profit & overhead 20% 430.00

Total Labour rate 258.00**258.00**

2. Material

i) For base:

Concrete 1:2:4 10 x 25/1000 0.25 Cu.m. @ 4971.92 1242.98

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
ii) For Terrazzo topping:			
	Cement OPC	0.109 M.Ton @ 10500.00	1144.50
	Marble chips	225.00 Kg. @ 5.00	1125.00
	Marble powder	112.50 Kg. @ 6.00	675.00
	Carborandum stone	0.25 No. @ 155.00	38.75
	Mansion polish	0.25 Kg. @ 315.00	78.75
			<u>4304.98</u>
	3. Formwork and sundries	1.5%	96.82
	Total of 2 & 3		<u>4401.81</u>
	Contractor's profit & overhead	20%	880.36
	Total Composite rate		<u>786.22</u>
			786.20

Sq.m. d) 3/4" (19mm) thick terrazzo topping 1:2 (one cement & 2 marble chips)

Detail of cost for 10 sq.m.

1. Labour

i) For base:

Same as item 14-4(a)

656.25

ii) For terrazzo topping

Mason	6.00	Hrs @	125.00	750.00
Labourer	4.00	Hrs @	87.50	350.00
Floor grinder with machine (1st stage)	6.00	Hrs @	87.50	525.00
Floor grinder with machine (2nd stage)	2.00	Hrs @	87.50	175.00
Bahishti	1.00	Hrs @	87.50	87.50
Floor polisher	6.00	Hrs @	87.50	525.00
				<u>2412.50</u>

Total 3068.75

Contractor's profit & overhead 20% 613.75

Total Labour rate 368.25**368.25**

2. Material

i) For base:

Concrete 1:2:4 10 x 25/1000 0.25 Cu.m. @ 4971.92 1242.98

ii) For Terrazzo topping:

Cement OPC	0.164	M.Ton @	10500.00	1722.00
Marble chips	377.00	Kg. @	5.00	1885.00
Marble powder	168.50	Kg. @	6.00	1011.00
Carborandum stone	0.30	No. @	155.00	46.50
Mansion polish	0.30	Kg. @	315.00	94.50
				<u>6001.98</u>

3. Formwork and sundries 1.5% 126.22

Total of 2 & 3 6128.20

Contractor's profit & overhead 20% 1225.64

Total Composite rate 1103.63**1103.65****Sq.m. e) Extra for colouring material for every 1/8" (3.2mm) thick terrazzo floor.**

Detail of cost for 10 Sq.m.

1. Labour

Labourer 4.00 Hrs @ 87.50 350.00

Contractor's profit & overhead 20% 70.00

Total Labour rate 42.00**42.00**

2. Material

Pigment 2.50 Kg. @ 82.50 206.25

3. Sundries 1.5% 8.34

Total of 2 & 3 214.59

Contractor's profit & overhead 20% 42.92

Total Composite rate 67.75**67.75****Item No. 14-5**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Providing and laying Conglomerate flooring (two coat work) having 1/2" (9mm) thick wearing surface comprising 1 part of cement & 2 parts of stone chips passing 3/16" sieve, over 1:3:6 concrete base using crushed aggregate laid in panels or approved pattern including formwork, curing, and surface finishing as approved by Engineer Incharge.

Sq.m. a) 1-1/2" (37mm) thick

1. Labour

i) For 1/2" thick topping

Mason	0.50	Hrs	@	125.00	62.50
Labourer	0.25	Hrs	@	87.50	21.88
Carpenter	0.50	Hrs	@	125.00	62.50
Bahishti	0.05	Hrs	@	87.50	4.38
					<u>151.25</u>

ii) For 1:3:6 bedding

Mason	0.80	Hrs	@	125.00	100.00
Labourer	0.50	Hrs	@	87.50	43.75
Carpenter	0.15	Hrs	@	125.00	18.75
Bahishti	0.20	Hrs	@	87.50	17.50
					<u>180.00</u>

Total

Contractor's profit & overhead 20% 66.25

Total Labour rate 397.50

397.50

2. Material

i) For base 0.025 Cu.m. @ 4379.69 109.49

ii) For topping:

Cement OPC 0.130 Bags @ 525.00 68.25

Approved Coarse Sand 0.004 Cu.m. @ 1296.75 5.19

Total 73.44

Total of 2 & 3 182.93

Contractor's profit & overhead 20% 36.59

Total Composite rate 617.02

617.00

Sq.m. b) 1-3/4" (45mm) thick

1. Labour

For 1/2" Topping Same as Item No. 14.5(a) 151.25

ii) For 1:3:6 bedding

Mason 0.80 Hrs @ 125.00 100.00

Labourer 0.50 Hrs @ 87.50 43.75

Carpenter 0.15 Hrs @ 125.00 18.75

Bahishti 0.25 Hrs @ 87.50 21.88

184.38

Total 335.63

Contractor's profit & overhead 20% 67.13

Total Labour rate 402.75

402.75

2. Material

i) For base 0.029 Cu.m. @ 4379.69 127.01

ii) For topping: Same as Item No. 14.5(a) 73.44

Total of 2 & 3 200.45

Contractor's profit & overhead 20% 40.09

Total Composite rate 643.29

643.30

Sq.m. c) 2" (50mm) thick

1. Labour

For 1/2" Topping Same as Item No. 14.5(a) 151.25

ii) For 1:3:6 bedding

Mason 1.00 Hrs @ 125.00 125.00

Labourer 1.00 Hrs @ 87.50 87.50

Carpenter 0.15 Hrs @ 125.00 18.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Bahishti	0.25	Hrs @ 87.50	21.88
				253.13
	Total			404.38
	Contractor's profit & overhead		20%	80.88
	Total Labour rate			485.25
				485.25
	2. Material			
	i) For base	0.037	Cu.m. @ 4379.69	159.86
	ii) For topping: Same as Item No. 14.5(a)			73.44
	Total of 2 & 3			233.30
	Contractor's profit & overhead		20%	46.66
	Total Composite rate			765.20
				765.20
	Item No. 14-6			
	Providing and laying floor 1:2:4 reinforced cement concrete using crushed aggregate 3/4" (19mm) and ground floor including formwork, consolidation, finishing and curing but excluding the cost of reinforcement.			
Sq.m.	a) 1-1/2" (37mm) nominal thick flooring			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Same as in item 14-2(b)1			1143.75
	Contractor's profit & overhead		20%	228.75
	Total Labour rate			137.25
				137.25
	2. Material			
	Same as in item 14-2(b)1			1864.47
	3. Formwork and sundries		30%	559.34
	Total of 2 & 3			2423.81
	Contractor's profit & overhead		20%	484.76
	Total Composite rate			428.11
				428.10
Sq.m.	b) 2" (50 mm) nominal thick flooring			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Same as in item 14-2(b)2			1531.25
	Contractor's profit & overhead		20%	306.25
	Total Labour rate			183.75
				183.75
	2. Material			
	Same as in item 14-2(b)2			2485.96
	3. Formwork and sundries		30%	745.79
	Total of 2 & 3			3231.75
	Contractor's profit & overhead		20%	646.35
	Total Composite rate			571.56
				571.55
Sq.m.	c) 3" (75 mm) nominal thick flooring			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Same as in item 14-2(b)3			1875.00
	Contractor's profit & overhead		20%	375.00
	Total Labour rate			225.00
				225.00
	2. Material			
	Same as in item 14-2(b)3			3728.94
	3. Formwork and sundries		30%	1118.68
	Total of 2 & 3			4847.63
	Contractor's profit & overhead		20%	969.53
	Total Composite rate			806.72
				806.70

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Sq.m.	d) Extra for first floor			
	Extra labour for lift			
	Labourer	4.00	Hrs @ 87.50	350.00
	Contractor's profit & overhead		20%	70.00
	Total Labour rate			<u>42.00</u>
				42.00
Sq.m.	e) Extra for every additional floor above first floor			
	Extra labour for lift			
	Labourer	3.25	Hrs @ 87.50	284.38
	Contractor's profit & overhead		20%	56.88
	Total Labour rate			<u>34.13</u>
				34.15
Tonne	Item No. 14-7-1			
	Providing and laying M.S. reinforcement bars including cutting, bending, binding, wastage, overlaps not shown on drawings and placing in position on cement concrete precast chairs, tying with binding wire including cost of binding wire in cement concrete floors in ground floor.			
	The rate for item 5-43(a) for M.S. bars will apply			
	Total Labour rate			7845.00
				7845.00
	Total Composite rate			115717.80
				115717.80
Sq.m.	Item No. 14-8-1			
	Providing and laying in ground floor 1.41 mm 18 BWG gauge expanded metal 3/4"x2.5" (19mm x 64mm) mesh as reinforcement including the cost of chairs, cutting, wastage, overlaps and binding wire.			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Black smith	2.00	Hrs @ 112.00	224.00
	Helper	2.00	Hrs @ 75.00	150.00
	Total			<u>374.00</u>
	Contractor's profit & overhead		20%	74.80
	Total Labour rate			<u>44.88</u>
				44.90
	2. Material			
	1.41 mm gauge expended metal	10.00	Sq.m.	
	Wastage due to cutting and overlaps @ 7.5%	0.75	Sq.m.	
		<u>10.75</u>	Sq.m.	
	Expanded metal	10.75	Sq.m. @ 630.0	6772.50
	Chairs		1%	67.73
	Binding wire		0.5%	33.86
				<u>6874.09</u>
	3. Sundries		5%	18.70
	Total of 2 & 3			<u>6892.79</u>
	Contractor's profit & overhead		20%	1378.56
	Total Composite rate			<u>872.01</u>
				872.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-9

Providing and laying super white 12"x12" marble tiles floor fine dressed on surface without winding in ground floor and laid over 1" (25mm) thick cement sand mortar 1:2 setting tiles with portland cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing including the cost of cement mortar.

Detail of cost for 10 Sq.m.

Sq.m. a) 1/2" (13 mm) thick marble tiles floor								
1. Labour								
Chiseller marble	3.00	Hrs	@	97.50		292.50		
Floor grinder with machine	1.00	Hrs	@	87.50		87.50		
Tile layer	12.00	Hrs	@	130.00		1560.00		
Labourer	12.00	Hrs	@	87.50		1050.00		
Floor polisher	6.00	Hrs	@	87.50		525.00		
Mistri	2.00	Hrs	@	110.00		220.00		
Total						3735.00		
Contractor's profit & overhead				20%		747.00		
Total Labour rate						448.20	448.20	
2. Material								
Marble tiles	10.00	Sq.m.						
Wastage	1.5%							
	0.15	Sq.m.						
	10.15	Sq.m.						
Mortar	107.60 x 25/304.8	8.83	Cu.ft.	=	0.25	Cu.m.		
Marble tiles - super white 1/2" thick		10.15	Sq.m.	@	1290.00		13093.50	
Cement - white		5.00	Kg.	@	15.00		75.00	
Cement OPC		89.00	Kg.	@	10.50		934.50	
Cement mortar (1 : 2)		0.25	Cu.m.	@	8442.75		2110.20	
Gum or gum resin (1 : 1)					2%		282.06	
							16495.26	
3. Sundries					5%		186.75	
Total of 2 & 3							16682.01	
Contractor's profit & overhead					20%		3336.40	
Total Composite rate							2450.04	2450.05
Sq.m. b) 3/4" (19 mm) thick marble tiles floor								
1. Labour								
Same as in item 14-9(a) above						3735.00		
Contractor's profit & overhead					20%	747.00		
Total Labour rate						448.20	448.20	
2. Material								
Marble tiles - super white 3/4" thick	10.15	Sq.m.	@	2152.00		21842.80		
Other materials same as in item 14-9(a)						3401.76		
						25244.56		
3. Sundries					5%	186.75		
Total of 2 & 3						25431.31		
Contractor's profit & overhead					20%	5086.26		
Total Composite rate						3499.96	3499.95	
Sq.m. c) 1" (25 mm) thick marble tiles floor								
1. Labour								
Same as in item 14-9(a) above						3735.00		
Contractor's profit & overhead					20%	747.00		
Total Labour rate						448.20	448.20	
2. Material								

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Marble tiles - super white 1" thick	10.15	Sq.m. @ 3553.00	36062.95
	Other materials same as in item 14-9(a)			3401.76
				<u>39464.71</u>
	3. Sundries		5%	186.75
	Total of 2 & 3			<u>39651.46</u>
	Contractor's profit & overhead		20%	7930.29
	Total Composite rate			<u>5206.38</u>
				5206.40

Item No.14-10**Deduct from item 14-9 above if Lasbela marble is used instead of super white marble**

Detail of cost for 10 Sq.m.

Sq.m. a) 1/2" (13 mm) thick marble tiles floor

Difference in material cost

Marble tiles - super white 1/2" thick 10.15 Sq.m. @ 1290.00 13093.50

Marble tiles - Lasbella 1/2" thick 10.15 Sq.m. @ 750.00 7612.50

5481.00

Contractor's profit & overhead 20% 1096.20

Total Composite rate 657.72**657.70****Sq.m. b) 3/4" (19 mm) thick marble tiles floor**

Difference in material cost

Marble tiles - super white 3/4" thick 10.15 Sq.m. @ 2152.00 21842.80

Marble tiles - Lasbella 3/4" thick 10.15 Sq.m. @ 1290.00 13093.50

8749.30

Contractor's profit & overhead 20% 1749.86

Total Composite rate 1049.92**1049.90****Sq.m. c) 1" (25 mm) thick marble tiles floor**

Difference in material cost

Marble tiles - super white 1" thick 5.00 Sq.m. @ 3553.00 17765.00

Marble tiles - Lasbella 1" thick 5.10 Sq.m. @ 1290.00 6579.00

11186.00

Contractor's profit & overhead 20% 2237.20

Total Composite rate 1342.32**1342.30****Item No.14-11****Deduct from item 14-9 above if Badal marble is used instead of super white marble**

Detail of cost for 10 Sq.m.

Sq.m. a) 1/2" (13 mm) thick marble tiles floor

Difference in material cost

Marble tiles - super white 1/2" thick 10.15 Sq.m. @ 1290.00 13093.50

Marble tiles - Badal 1/2" thick 10.15 Sq.m. @ 517.00 5247.55

7845.95

Contractor's profit & overhead 20% 1569.19

Total Composite rate 941.51**941.50****Sq.m. b) 3/4" (19 mm) thick marble tiles floor**

Difference in material cost

Marble tiles - super white 3/4" thick 10.15 Sq.m. @ 2152.00 21842.80

Marble tiles - Badal 3/4" thick 10.15 Sq.m. @ 680.00 6902.00

14940.80

Contractor's profit & overhead 20% 2988.16

Total Composite rate 1792.90**1792.90****Sq.m. c) 1" (25 mm) thick marble tiles floor**

Difference in material cost

Marble tiles - super white 1" thick 10.15 Sq.m. @ 3553.00 36062.95

Marble tiles - Badal 1" thick 10.15 Sq.m. @ 720.00 7308.00

7308.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

			28754.95	
	Contractor's profit & overhead	20%	5750.99	
	Total Composite rate		3450.59	3450.60

Item No. 14-12-1

Sq.m. Providing and laying super white 3/4" (19mm) thick, 6"x12" size marble tiles floor fine dressed on surface without winding in ground floor and laid over 1" (25mm) thick cement sand mortar 1:2 setting tiles with portland cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing & polishing including the cost of cement mortar.

Detail of cost for 10 Sq.m.

1. Labour

	Same as in item 14-9(a)		3735.00	
	Contractor's profit & overhead	20%	747.00	
	Total Labour rate		448.20	448.20

2. Material

Marble tiles	10.00	Sq.m.		
Wastage	1.5%		0.15	Sq.m.
			10.15	Sq.m.
Marble tiles - super white 6" x 12"	10.15	Sq.m.	@ 560.00	5684.00
Other materials same as in item 14-9(a)				3401.76
				9085.76

3. Sundries

	Total of 2 & 3		5%	186.75	
	Contractor's profit & overhead		20%	1854.50	
	Total Composite rate			1560.90	1560.90

Item No.14-13-1

Sq.m. Deduct from item 14-12-1 above if Lasbella marble is used instead of super white marble

Difference in material cost

Marble tiles - super white 6" x 12"	10.15	Sq.m.	@ 560.00	5684.00	
Marble tiles - Lasbella 6" x 12"	10.15	Sq.m.	@ 323.00	3278.45	
				2405.55	
	Contractor's profit & overhead		20%	481.11	
	Total Composite rate			288.67	288.65

Item No.14-14-1

Sq.m. Deduct from item 14-12-1 above if badal marble is used instead of super white marble

Difference in material cost

Marble tiles - super white 6" x 12"	10.15	Sq.m.	@ 560.00	5684.00	
Marble tiles - Badal 6" x 12"	10.15	Sq.m.	@ 237.00	2405.55	
				3278.45	
	Contractor's profit & overhead		20%	655.69	
	Total Composite rate			393.41	393.40

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-15-1

Sq.m. Providing and laying super white 1" (25mm) thick, marble floor in slabs exceeding 12"x12" marble size, fine dressed on surface without winding in ground floor and laid over 1" (25mm) thick cement sand mortar 1:2 setting tiles with portland cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing

Detail of cost for 10 Sq.m.

1. Labour

Same as in item 14-9(a)				3735.00
Contractor's profit & overhead	20%			747.00
Total Labour rate				448.20

448.20

2. Material

Marble tiles	10.00	Sq.m.		
Wastage	1.5%	0.15	Sq.m.	
		10.15	Sq.m.	
Marble slab - super white 1" thick	10.15	Sq.m.	@ 4842.00	49146.30
Other materials same as in item 14-9(a)				3401.76
				52548.06

3. Sundries

Total of 2 & 3

Contractor's profit & overhead

Total Composite rate

6776.40**Item No.14-16**

Sq.m. Deduct from item 14-15-1 above if Lasbella marble is used instead of super white marble

Difference in material cost

Marble slab - super white 1" thick	10.15	Sq.m.	@ 4842.00	49146.30
Marble slab - Lasbella 1" thick	10.15	Sq.m.	@ 3600.00	36540.00
				12606.30

Contractor's profit & overhead

Total Composite rate

1512.75**Item No.14-17**

Sq.m. Deduct from item 14-15-1 above if badal marble is used instead of super white marble

Difference in material cost

Marble slab - super white 1" thick	10.15	Sq.m.	@ 4842.00	49146.30
Marble slab - Badal 1" thick	10.15	Sq.m.	@ 2260.00	22939.00
				26207.30

Contractor's profit & overhead

Total Composite rate

3144.90**Item No. 14-18-1**

Sq.m. Providing and laying 1" (25mm) thick super white marble slab exceeding 12"x12" size kitchen top in white cement including all labour for grinding and polishing

Detail of cost for 10 Sq.m.

1. Labour

Tile layer	12.00	Hrs	@ 130.00	1560.00
Labourer	16.00	Hrs	@ 87.50	1400.00
Floor polisher	6.00	Hrs	@ 87.50	525.00
Mistri	2.00	Hrs	@ 110.00	220.00
Total				3705.00

Contractor's profit & overhead

Total Labour rate

444.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Material					
	Marble slab - super white 1" thick	10.15	Sq.m. @	4842.00	49146.30
	Cement - white	10.00	Kg. @	15.00	150.00
					<u>49296.30</u>
	3. Sundries			5%	185.25
	Total of 2 & 3				<u>49481.55</u>
	Contractor's profit & overhead			20%	9896.31
	Total Composite rate				<u>6382.39</u>
					6382.40

Sq.m. Item No.14-19-1
Deduct from item 14-18-1 above if Lasbella marble slab is used instead of super white marble

Difference in material cost					
	Marble slab - super white 1" thick	10.15	Sq.m. @	4842.00	49146.30
	Marble slab - Lasbella 1" thick	10.15	Sq.m. @	3600.00	36540.00
					<u>12606.30</u>
	Contractor's profit & overhead			20%	2521.26
	Total Composite rate				<u>1512.76</u>
					1512.75

Sq.m. Item No.14-20-1
Deduct from item 14-18-1 above if badal marble slab is used instead of super white marble

Difference in material cost					
	Marble slab - super white 1" thick	10.15	Sq.m. @	4842.00	49146.30
	Marble slab - Badal 1" thick	10.15	Sq.m. @	2260.00	22939.00
					<u>26207.30</u>
	Contractor's profit & overhead			20%	5241.46
	Total Composite rate				<u>3144.88</u>
					3144.90

Kg. Item No. 14-21-1
Providing and fixing copper clamps or panel dividing strips and/or dowel bars 1/4" (6 mm) dia of copper 1.21 mm thick 22 gauge of required length and shape for securing marble tiles/slabs in stairs/steps or in floor at any height.

Detail of cost for 10 kg.

1. Labour					
	Chiseller marble	8.00	Hrs @	97.50	780.00
	Mason	8.00	Hrs @	125.00	1000.00
	Labourer	8.00	Hrs @	87.50	700.00
	Total				<u>2480.00</u>
	Contractor's profit & overhead			20%	496.00
	Total Labour rate				<u>297.60</u>
					297.60
2. Material					
	Copper wire/plate	10.025	Kg. @	480.00	4812.00
	3. Sundries			5%	124.00
	Total of 2 & 3				<u>4936.00</u>
	Contractor's profit & overhead			20%	987.20
	Total Composite rate				<u>889.92</u>
					889.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-22-1

R.M. Extra for making nosing of treads as per design and/or as per instructions of the Engineer-in charge including grinding marble/marble chips and polishing etc.

Detail of cost for 10 R.M

Labour

Chiseller marble	6.00	Hrs	@	97.50	585.00
Floor grinder with machine	4.00	Hrs	@	87.50	350.00
Floor polisher	2.00	Hrs	@	87.50	175.00
Total					1110.00
Contractor's profit & overhead				20%	222.00
Total Labour rate					133.20

133.20

Item No. 14-23

Deduct for laying floor of any description in cement mortar ratio other than cement mortar 1:2 in item no. 14-9 to 14-18 -1

Sq.m. a) 1 : 3

Cost of mortar 1 : 2	0.25	Cu.m.	@	8442.75	2110.69
Cost of mortar 1 : 3	0.25	Cu.m.	@	6099.30	1524.83
Cost difference					585.86
Contractor's profit & overhead				20%	117.17
Total Composite rate					70.30

70.30

Sq.m. b) 1 : 4

Cost of mortar 1 : 2	0.25	Cu.m.	@	8442.75	2110.69
Cost of mortar 1 : 4	0.25	Cu.m.	@	4839.30	1209.83
Cost difference					900.86
Contractor's profit & overhead				20%	180.17
Total Composite rate					108.10

108.10

Item No. 14-24

Extra over item 14-9 to 14-22-1 for the description of work given below:

Detail of cost for 10 Sq.m.

Sq.m. a) Extra for stair/steps

Extra Labour

Floor grinder with machine	8.00	Hrs	@	87.50	700.00
Bahishti	4.00	Hrs	@	87.50	350.00
Total					1050.00
Contractor's profit & overhead				20%	210.00
Total Labour rate					126.00

126.00

Sq.m. b) Extra for basement

Extra Labour

Labourer	2.50	Hrs	@	87.50	218.75
Contractor's profit & overhead				20%	43.75
Total Labour rate					26.25

26.25

Sq.m. c) Extra for first floor

Extra Labour

Labourer	3.50	Hrs	@	87.50	306.25
Contractor's profit & overhead				20%	61.25
Total Labour rate					36.75

36.75

Sq.m. d) Extra for every additional floor above first floor

Extra Labour

Labourer	3.00	Hrs	@	87.50	262.50
Contractor's profit & overhead				20%	52.50
Total Labour rate					31.50

31.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-25

- Sq.m. a) **Providing and laying 1/4" to 3/8" (6mm to 9mm) thick Glazed/ Matt tiles of any colour and size in ground floor laid over 1" (25mm) thick cement sand mortar base including jointing and washing the tiles with white cement slurry of matching color by using color pigment and curing**

Detail of cost for 10 Sq.m.

1. Labour

Tile layer	18.00	Hrs	@	130.00	2340.00
Labourer	18.00	Hrs	@	87.50	1575.00
Bahishti	6.00	Hrs	@	87.50	525.00
Total					4440.00
Contractor's profit & overhead				20%	888.00
Total Labour rate					532.80

532.80

2. Material

Ceramic Tile glazed/matt (Prime Quality)	10.00	Sq. m.	@	825.00	8,250.00
Cement - white	5.00	Kg.	@	15.00	75.00
Cement OPC	100.00	Kg.	@	10.50	1,050.00
Pigment	0.25	Kg.	@	82.50	20.63
Cement mortar 1 : 2	0.25	Cu.m.	@	8442.75	2,110.69
water charges				1.5%	172.59
					11,678.91
3. Sundries				5%	222.00
Total of 2 & 3					11,900.91
Contractor's profit & overhead				20%	2,380.18
Total Composite rate					1,960.91

1960.90

- Sq.m. b) **Extra for basement over item 14-25(a) above**

Extra labour					
Labourer	2.00	Hrs	@	87.50	175.00
Contractor's profit & overhead				20%	35.00
Total Labour rate					21.00

21.00

- Sq.m. c) **Extra for first floor over item 14-25(a) above**

Extra labour					
Labourer	2.50	Hrs	@	87.50	218.75
Contractor's profit & overhead				20%	43.75
Total Labour rate					26.25

26.25

- Sq.m. d) **Extra for every additional floor above first floor over item 14-25(a) above**

Extra labour					
Labourer	1.50	Hrs	@	87.50	131.25
Contractor's profit & overhead				20%	26.25
Total Labour rate					15.75

15.75**Item No. 14-26**

- Sq.m. a) **Providing and laying 3/4" (19mm) thick mosaic tiles 8"x 8" size with 3/8" (9mm) thick topping and base each in white cement with pigment of required color, shade and pattern in ground floor over 1" (25mm) thick cement sand mortar 1:2 including setting the tiles with portland cement slurry over cement sand jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & mortar cost.**

Detail of cost for 10 Sq.m.

1. Labour

Tile layer	12.00	Hrs	@	130.00	1560.00
Labourer	10.00	Hrs	@	87.50	875.00
Bahishti	4.00	Hrs	@	87.50	350.00
Floor grinder with machine	1.00	Hrs	@	87.50	87.50
Floor polisher	6.00	Hrs	@	87.50	525.00
Total					3397.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	679.50	
	Total Labour rate		407.70	407.70
	2. Material			
	Tiles mosaic 3/4" thick	10.50	Sq.m. @ 325.00	3412.50
	Cement - white	5.00	Kg. @ 15.00	75.00
	Cement OPC	95.00	Kg. @ 10.50	997.50
	Pigment	0.50	Kg. @ 82.50	41.25
	Carborandum stone	0.25	No. @ 155.00	38.75
	Mansion polish	0.25	Kg. @ 315.00	78.75
	Cement mortar 1:2	0.25	Cu.m. @ 8442.75	2110.69
				6754.44
	3. Sundries	5%	169.88	
	Total of 2 & 3		6924.31	
	Contractor's profit & overhead	20%	1384.86	
	Total Composite rate		1238.62	1238.60
Sq.m.	b) Same as item no.14-26(a) but using 1/2" (13 mm) thick mosaic tiles			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Same as in item 14-26 (a)		3397.50	
	Contractor's profit & overhead	20%	679.50	
	Total Labour rate		407.70	407.70
	2. Material			
	Tiles mosaic 1/2" thick	10.50	Sq.m. @ 512.00	5376.00
	Other (same as above)			3341.94
				8717.94
	3. Sundries	5%	169.88	
	Total of 2 & 3		8887.81	
	Contractor's profit & overhead	20%	1777.56	
	Total Composite rate		1474.24	1474.25
Sq.m.	Item No. 14-27-1			
	Providing and laying 1" (25mm) thick mosaic tiles 12"x 12" size with 1/2" (13mm) thick topping and base each in white cement with pigment of required color, shade and pattern in ground floor over 1" (25mm) thick cement sand mortar 1:2 including setting the tiles with portland cement slurry over cement sand jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & the mortar cost.			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Tile layer	11.00	Hrs @ 130.00	1430.00
	Labourer	8.00	Hrs @ 87.50	700.00
	Bahishti	4.00	Hrs @ 87.50	350.00
	Floor grinder with machine	1.00	Hrs @ 87.50	87.50
	Floor polisher	6.00	Hrs @ 87.50	525.00
	Total			3092.50
	Contractor's profit & overhead	20%	618.50	
	Total Labour rate		371.10	371.10
	2. Material			
	Tiles mosaic 1" thick	10.50	Sq.m. @ 350.00	3675.00
	Cement - white	6.00	Kg. @ 15.00	90.00
	Cement OPC	95.00	Kg. @ 10.50	997.50
	Pigment	0.50	Kg. @ 82.50	41.25
	Carborandum stone	0.25	No. @ 155.00	38.75
	Mansion polish	0.25	Kg. @ 315.00	78.75
	Cement mortar 1:2	0.25	Cu.m. @ 8442.75	2110.69
				7031.94

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	3. Sundries	5%	154.63
	Total of 2 & 3		7186.56
	Contractor's profit & overhead	20%	1437.31
	Total Composite rate		1233.49
			1233.50

Item No. 14-28-1

Sq.m. Providing and laying 1-1/2" (37mm) thick mosaic tiles 16"x16" size with 1" (25mm) thick topping and 1/2" (13mm) thick base in white cement with pigment of required color, shade and pattern in ground floor over 1" (25mm) thick cement sand mortar 1:2 including setting the tiles with portland cement slurry over cement sand jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & the mortar cost.

Detail of cost for 10 Sq.m.

1. Labour

Same as in item 14-27 (a)

Contractor's profit & overhead 20% 3092.50

Total Labour rate 618.50

371.10

2. Material

Tiles mosaic 1-1/2" thick 10.50 Sq.m. @ 400.00 4200.00

Cement - white 10.00 Kg. @ 15.00 150.00

Cement OPC 140.00 Kg. @ 10.50 1470.00

Pigment 1.00 Kg. @ 82.50 82.50

Carborandum stone 0.30 No. @ 155.00 46.50

Mansion polish 0.30 Kg. @ 315.00 94.50

Cement mortar 1:2 0.37 Cu.m. @ 8442.75 3123.82

9167.32

3. Sundries 5% 154.63

Total of 2 & 3 9321.94

Contractor's profit & overhead 20% 1864.39

Total Composite rate 1489.73

1489.75**Item No. 14-29-1**

Sq.m. Providing and laying 3/4" (19mm) thick cement tiles floor 8"x8" size with 3/8" (9mm) thick topping in white cement with pigment of required color shade and/or flowered pattern in ground floor over 1" (25mm) thick cement sand mortar 1:2 including setting the tiles with portland cement slurry, jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & the mortar cost.

Detail of cost for 10 Sq.m.

1. Labour

Same as in item 14-26(a)

Contractor's profit & overhead 20% 3397.50

Total Labour rate 679.50

407.70

2. Material

Tiles cement 3/4" thick 10.50 Sq.m. @ 370.00 3885.00

Other material, same as in item 14-23(a) 3341.94

7226.94

3. Sundries 5% 169.88

Total of 2 & 3 7396.81

Contractor's profit & overhead 20% 1479.36

Total Composite rate 1295.32

1295.30

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-30-1

Sq.m. Providing and laying 1" (25mm) thick cement tiles floor 12"x12" size with 1/2" (13mm) thick topping in white cement with pigment of required color shade and/or flowered pattern in ground floor over 1" (25mm) thick cement sand mortar 1:2 including setting the tiles with portland cement slurry, jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & the mortar cost.

Detail of cost for 10 Sq.m.

1. Labour

Same as in item 14-27-1

Contractor's profit & overhead 20% 3092.50 618.50

Total Labour rate 371.10

371.10

2. Material

Tiles cement 1" thick 10.50 Sq.m. @ 390.00 4095.00

Other material, same as in item 14-24-1 3356.94

7451.94

3. Sundries 5% 154.63

Total of 2 & 3 7606.56

Contractor's profit & overhead 20% 1521.31

Total Composite rate 1283.89

1283.90

Item No. 14-31-1

Sq.m. Providing and laying 1-1/2" (38mm) thick cement tiles floor 16"x16" size with 1/2" (13mm) thick topping in white cement with pigment of required color shade and/or flowered pattern in ground floor over 1" (25mm) thick cement sand mortar 1:2 including setting the tiles with portland cement slurry, jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & the mortar cost.

Detail of cost for 10 Sq.m.

1. Labour

Same as in item 14-1

Contractor's profit & overhead 20% 3092.50 618.50

Total Labour rate 371.10

371.10

2. Material

Tiles cement 1-1/2" thick 10.50 Sq.m. @ 430.00 4515.00

Other materials, same as in item 14-25-1V 9167.32

13682.32

3. Sundries 5% 154.63

Total of 2 & 3 13836.94

Contractor's profit & overhead 20% 2767.39

Total Composite rate 2031.53

2031.55

Item No. 14-32

Extra over item No.14-26-1 to 14-31-1 for the description of work given below

Details of cost for 10 Sq.m.

Sq.m. a) Extra for flooring in basement

Extra labour

Labourer 2.00 Hrs @ 87.50 175.00

Contractor's profit & overhead 20% 35.00

Total Labour rate 21.00

21.00

Sq.m. b) Extra for first floor

Extra labour

Labourer 2.50 Hrs @ 87.50 218.75

Contractor's profit & overhead 20% 43.75

Total Labour rate 26.25

26.25

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. c) Extra for every additional floor above first floor

Extra labour							
Labourer	1.50	Hrs	@	87.50		131.25	
Contractor's profit & overhead				20%		26.25	
Total Labour rate						15.75	15.75

Item No. 14-33

Providing and laying floor of flexible polyvinyl chloride (P.V.C) tiles of Decora or any approved make and shade in ground floor including fixing with approved adhesive, 1-1/2" (37mm) thick sub base of 1:2:4 cement concrete and its curing.

Detail of cost for 10 Sq.m.

Sq.m. a) P.V.C. tiles 305 mm x 305 mm x 2 mm flooring

1. Labour							
For base plaster same as in item 14-4(a)						656.25	
For base cement concrete 1:2:4 same as in item 14-2(a)						1231.25	
Tile layer	12.00	Hrs	@	130.00		1560.00	
Labourer	8.00	Hrs	@	87.50		700.00	
Total						4147.50	
Contractor's profit & overhead				20%		829.50	
Total Labour rate						497.70	497.70
2. Material							
For base cement concrete 1:2:4, same as in item 14-2(a)						1864.47	
Tiles Premium quality 2 mm thick	10.50	Sq.m.	@	437.50		4593.75	
P.V.C Jointing solution	2.30	Kg.	@	233.00		535.90	
						6994.12	
3. Sundries				5%		207.38	
Total of 2 & 3						7201.50	
Contractor's profit & overhead				20%		1440.30	
Total Composite rate						1361.88	1361.90

Sq.m. b) P.V.C. tiles 305 mm x 305 mm x 3 mm flooring

1. Labour							
Same as in item 14-30(a)						4147.50	
Contractor's profit & overhead				20%		829.50	
Total Labour rate						497.70	497.70
2. Material							
For base cement concrete 1:2:4, same as in item 14-2(a)						1864.47	
Tiles Premium quality 3 mm thick	10.50	Sq.m.	@	665.00		6982.50	
P.V.C Jointing solution	2.30	Kg.	@	233.00		535.90	
						9382.87	
3. Sundries				5%		207.38	
Total of 2 & 3						9590.25	
Contractor's profit & overhead				20%		1918.05	
Total Composite rate						1648.53	1648.55

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-34

Providing and laying floor of marble coloured flexible polyvinyl chloride (PVC) Royal quality tiles of Decora or any approved make and shade in ground floor including fixing with approved adhesive, 1-1/2" (37mm) thick sub base of 1:2:4 cement concrete & its curing.

Detail of cost for 10 Sq.m.

Sq.m. a) P.V.C. tiles 305 mm x 305 mm x 1.8 mm flooring

1. Labour

Same as in item 14-33(a)

Contractor's profit & overhead

Total Labour rate

	4147.50
20%	829.50
	<u>497.70</u>

865.57

2. Material

For base cement concrete 1:2:4, same as in item 14-2(a)

Tiles Royal quality 1.8 mm thick

P.V.C Jointing solution

10.50	Sq.m.	@	517.50	5433.75
2.30	Kg.	@	233.00	535.90

7834.12

3. Sundries

Total of 2 & 3

Contractor's profit & overhead

Total Composite rate

5%	207.38
	<u>8041.50</u>
20%	1608.30
	<u>1462.68</u>

1462.70

Sq.m. b) P.V.C. tiles 305 mm x 305 mm x 3 mm flooring

1. Labour

Same as in item 14-33(a)

Contractor's profit & overhead

Total Labour rate

	4147.50
20%	829.50
	<u>497.70</u>

865.57

2. Material

For base cement concrete 1:2:4, same as in item 14-2(a)

Tiles Royal quality 3 mm thick

P.V.C Jointing solution

10.50	Sq.m.	@	708.75	7441.88
2.30	Kg.	@	233.00	535.90

9842.25

3. Sundries

Total of 2 & 3

Contractor's profit & overhead

Total Composite rate

5%	207.38
	<u>10049.62</u>
20%	2009.92
	<u>1703.65</u>

1703.65

Item No. 14-35

Extra over item 14-33 to 14-34 for the detail of work given below:

Detail of cost for 10 Sq.m.

Sq.m. a) Extra for basement

Extra labour

Labourer

Contractor's profit & overhead

Total Labour rate

2.00	Hrs	@	87.50	175.00
			20%	35.00
				<u>21.00</u>

21.00

Sq.m. b) Extra for first floor

Extra labour

Labourer

Contractor's profit & overhead

Total Labour rate

2.50	Hrs	@	87.50	218.75
			20%	43.75
				<u>26.25</u>

26.25

Sq.m. c) Extra for every additional floor above first floor

Extra labour

Labourer

Contractor's profit & overhead

Total Labour rate

2.25	Hrs	@	87.50	196.88
			20%	39.38
				<u>23.63</u>

23.65

Item No. 14-36-1

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. Providing and laying floor of first class burnt bricks laid on edge and jointed in cement mortar 1:6 and pointed with cement sand mortar 1:3 in ground floor including curing.

Detail of cost for 10 Sq.m.

1. Labour

Mason	10.00	Hrs	@	125.00	1250.00
Labourer	20.00	Hrs	@	87.50	1750.00
Bahishti	1.00	Hrs	@	87.50	87.50
Mistri	0.50	Hrs	@	110.00	55.00
Total					3142.50
Contractor's profit & overhead				20%	628.50
Total Labour rate					377.10

377.10

2. Material

Taking vertical joint 3/8" thick, size of brick including joints

$9" + 3/8" = 9-3/8"$, $2-11/16 + 3/8 = 3-1/16$

Area under one brick	$75 / 8 \times 49/16 \times 1/144$	0.1994	Sq.ft.
Area of bricks		107.6	Sq.ft.
No. of bricks	$107.6/0.1994$	540	Nos.
Wastage @ 5%		27	Nos.
		567	Nos.

Mortar 1 : 6	2×9.375	18.75	
	2×3.063	6.13	
		24.88	
Volume	$540 \times 199/8 \times 3/8 \times 35/8 \times 1/1728$	12.753	Cu.ft.
Wastage @ 10%		1.275	Cu.ft.
		14.029	Cu.ft. = 0.397 Cu.m.

Mortar 1 : 3			
Volume	$540 \times 199/8 \times 3/8 \times 1 \times 1/1728$	2.915	Cu.ft.
Wastage @ 10%		0.292	Cu.ft.
		3.207	Cu.ft. = 0.091 Cu.m.

Material cost

Bricks	567.00	No.	@	10.00	5670.00
Mortar 1 : 6	0.397	Cu.m.	@	3579.30	1420.98
Mortar 1 : 3	0.091	Cu.m.	@	6099.30	553.88
Water Charges				1.5%	114.68
					7759.54

3. Sundries

Total of 2 & 3				5%	157.13
Contractor's profit & overhead				20%	1583.33
Total Composite rate					1327.10

1327.10

Item No. 14-37-1

Sq.m. Providing and laying floor of first class burnt bricks laid flat and jointed in cement mortar 1:6 and pointed with cement sand mortar 1:3 in ground floor including curing.

Detail of cost for 10 Sq.m.

1. Labour

Mason	8.00	Hrs	@	125.00	1000.00
Labourer	14.00	Hrs	@	87.50	1225.00
Bahishti	1.00	Hrs	@	87.50	87.50
Mistri	0.25	Hrs	@	110.00	27.50
Total					2340.00
Contractor's profit & overhead				20%	468.00
Total Labour rate					280.80

280.80

2. Material

Taking vertical joint 3/8" thick, size of brick including joints

$9" + 3/8" = 9-3/8"$, $4-3/8" + 3/8 = 4-3/4$

Area under one brick	$75 / 8 \times 19/4 \times 1/144$	0.3092	Sq.ft.
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Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Area of bricks		107.6	Sq.ft.		
No. of bricks	107.6/0.309	348	Nos.		
Wastage @ 5%		17	Nos.		
		365	Nos.		
Mortar 1 : 6	2 x 9.375	18.75			
	2 x 3.75	7.50			
		26.25			
Volume	348x113/4x3/8x43/16x1/1728	5.734	Cu.ft.		
Wastage @ 10%		0.573	Cu.ft.		
		6.307	Cu.ft. =	0.179	Cu.m.
Mortar 1 : 3					
Volume	348x113/4x3/8x1x1/1728	2.13	Cu.ft.		
Wastage @ 10%	10%	0.213	Cu.ft.		
		2.347	Cu.ft. =	0.066	Cu.m.
Material cost					
Bricks		365.00	No. @	10.00	3650.00
Mortar 1 : 6		0.179	Cu.m. @	3579.30	640.69
Mortar 1 : 3		0.066	Cu.m. @	6099.30	405.38
Water Charges				1.5%	70.44
					4766.51
3. Sundries				5%	117.00
Total of 2 & 3					4883.51
Contractor's profit & overhead				20%	976.70
Total Composite rate					866.82
					866.80

Sq.m. Item No. 14-38-1
Providing and laying floor of first class burnt tiles 12"x6"x2" nominal size laid flat and jointed in cement mortar 1:6 and pointed with cement sand mortar 1:3 in ground floor including curing.

Detail of cost for 10 Sq.m.

1. Labour

Mason	7.00	Hrs	@	125.00	875.00
Labourer	12.00	Hrs	@	87.50	1050.00
Bahishti	1.00	Hrs	@	87.50	87.50
Mistri	0.25	Hrs	@	110.00	27.50
Total					2040.00
Contractor's profit & overhead				20%	408.00
Total Labour rate					244.80

244.80

2. Material

Taking vertical joint 3/8" thick, size of tile including joints

12"+3/8" = 12-3/8", 6" + 3/8 = 6-3/8

Area under one tile	99 / 8 x 51/8 x1/144	0.5479	Sq.ft.		
Area of tiles		107.6	Sq.ft.		
No. of tiles	107.6/0.5479	196	Nos.		
Wastage @ 5%		10	Nos.		
		206	Nos.		
Mortar 1 : 6	2 x 12.375	24.75			
	2 x 6.375	12.75			
		37.50			
Volume	196x75/2x3/8x2x1/1728	3.19	Cu.ft.		
Wastage @ 10%		0.32	Cu.ft.		
		3.51	Cu.ft. =	0.10	Cu.m.
Mortar 1 : 3	196x75/2x3/8x1x1/1728	1.60	Cu.ft.		
Wastage @ 10%		0.16	Cu.ft.		
		1.75	Cu.ft. =	0.05	Cu.m.
Material cost					
Brick tiles (2" thick)		206.00	No. @	15.00	3090.00
Mortar 1 : 6		0.10	Cu.m. @	3579.30	355.71
Mortar 1 : 3		0.05	Cu.m. @	6099.30	303.07

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Water Charges	1.5%	56.24
			3805.02
	3. Sundries	5%	102.00
	Total of 2 & 3		3907.02
	Contractor's profit & overhead	20%	781.40
	Total Composite rate		713.64
			713.65

Sq.m. Item No. 14-39-1
Providing and laying floor of first class burnt tiles 9"x4.5"x1.5" nominal size laid flat and jointed in cement mortar 1:6 and pointed with cement sand mortar 1:3 in ground floor including curing.

Detail of cost for 10 Sq.m.

1. Labour

Same as in item 14-38-1

Contractor's profit & overhead	20%	408.00
Total Labour rate		244.80

244.80

2. Material

Taking vertical joint 3/8" thick, size of tile including joints

9"+3/8" = 9-3/8", 4-1/2" + 3/8" = 4-7/8

Area under one tile 75 / 8 x 39/8 x1/144 0.3174 Sq.ft.

Area of tiles 107.6 Sq.ft.

No. of tiles 107.6/0.3174 339 Nos.

Wastage @ 5% 17 Nos.

356 Nos.

Mortar 1 : 6 2 x 9.375 18.75

2 x 4.875 9.75

28.50

Volume 339x57/2x3/8x2x1/1728 4.19 Cu.ft.

Wastage @ 10% 0.42 Cu.ft.

4.61 Cu.ft. = 0.13 Cu.m.

Mortar 1 : 3 339x57/2x3/8x1x1/1728 2.10 Cu.ft.

Wastage @ 10% 0.21 Cu.ft.

2.31 Cu.ft. = 0.07 Cu.m.

Brick tiles (2" thick) 356 No. @ 15.00 5339.61

Mortar 1 : 6 0.13 Cu.m. @ 3579.30 467.58

Mortar 1 : 3 0.07 Cu.m. @ 6099.30 398.39

Water Charges 1.5% 93.09

6298.67

3. Sundries 5% 102.00

Total of 2 & 3 6400.67

Contractor's profit & overhead 20% 1280.13

Total Composite rate 1012.88

1012.90

Sq.m. Item No. 14-40-1
Providing and laying dry burnt bricks on edge and joints filled with sand in ground floor

Detail of cost for 10 Sq.m.

1. Labour

Mason 5.00 Hrs @ 125.00 625.00

Labourer 5.00 Hrs @ 87.50 437.50

Bahishti 0.25 Hrs @ 87.50 21.88

Mistri 0.25 Hrs @ 110.00 27.50

Total 1111.88

Contractor's profit & overhead 20% 222.38

Total Labour rate 133.43

133.45

2. Material

Taking vertical joint 1/4" thick, size of brick including joints

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	9" + 1/4" = 9-1/4", 2-11/16 + 1/4 = 47/16				
	Area under one brick 37 / 4 x 47/16 x 1/144	0.1887	Sq.ft.		
	Area of bricks	107.6	Sq.ft.		
	No. of bricks 107.6/0.1887	570	Nos.		
	Wastage @ 5%	29	Nos.		
		<u>599</u>	Nos.		
	Sand 2 x 9.25	18.50			
	2 x 47/16	5.88			
		<u>24.38</u>			
	Volume 570x195/8x1/4x35/8x1/1728	8.794	Cu.ft.		
	Wastage @ 10%	0.879	Cu.ft.		
		<u>9.674</u>	Cu.ft. =	0.274	Cu.m.
	Material cost				
	Bricks	599	No. @	10.00	5990.00
	Sand local	0.27	Cu.m. @	882.75	238.34
	Water Charges			1.5%	183.27
					<u>6411.61</u>
	3. Sundries			5%	55.59
	Total of 2 & 3				<u>6467.21</u>
	Contractor's profit & overhead			20%	1293.44
	Total Composite rate				<u>909.49</u>
					909.50

Item No. 14-41-1**Sq.m. Providing and laying dry burnt bricks laid flat and joints filled with sand in ground floor**

Detail of cost for 10 Sq.m.

1. Labour

Mason	4.00	Hrs	@	125.00	500.00
Labourer	4.00	Hrs	@	87.50	350.00
Bahishti	0.25	Hrs	@	87.50	21.88
Mistri	0.25	Hrs	@	110.00	27.50
Total					<u>899.38</u>
Contractor's profit & overhead				20%	179.88
Total Labour rate					<u>107.93</u>
					107.95

2. Material

Taking vertical joint 1/4" thick, size of brick including joints

9" + 1/4" = 9-1/4", 4-3/8 + 1/4 = 4-5/8

Area under one brick 37 / 4 x 37/8 x 1/144	0.2971	Sq.ft.			
Area of bricks	107.6	Sq.ft.			
No. of bricks 107.6/0.2971	362	Nos.			
Wastage @ 5%	18	Nos.			
	<u>380</u>	Nos.			
Sand 2 x 9.25	18.50				
2 x 4.626	9.25				
	<u>27.75</u>				
Volume 362x111/4x1/4x43/16x1/1728	3.91	Cu.ft.			
Wastage @ 10%	0.39	Cu.ft.			
	<u>4.30</u>	Cu.ft. =	0.122	Cu.m.	
Bricks	380	No. @	10.00	3802.86	
Sand local	0.12	Cu.m. @	882.75	107.41	
Water Charges			1.5%	115.70	
				<u>4025.97</u>	
3. Sundries			5%	44.97	
Total of 2 & 3				<u>4070.94</u>	
Contractor's profit & overhead			20%	814.19	
Total Composite rate				<u>596.44</u>	
					596.45

Item No. 14-42**Extra over Items No.14-37-1 to 14-41-1 for the detail of work given below**

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Detail of cost for 10 Sq.m.				
Sq.m.	a) Extra for flooring in basement				
	Extra labour				
	Labourer	2.00	Hrs @	87.50	175.00
	Contractor's profit & overhead			20%	35.00
	Total Labour rate				<u>21.00</u>
					21.00
Sq.m.	b) Extra for stair/steps in treads, risers & landings				
	Extra labour				
	Tile layer	2.00	Hrs @	130.00	260.00
	Contractor's profit & overhead			20%	52.00
	Total Labour rate				<u>31.20</u>
					31.20
Sq.m.	c) Extra for first floor				
	Extra labour				
	Labourer	2.50	Hrs @	87.50	218.75
	Contractor's profit & overhead			20%	43.75
	Total Labour rate				<u>26.25</u>
					26.25
R.M.	Item No. 14-43-1				
	Providing glass strips 1/4" (5 mm) thick and 1-1/2" (37.5 mm) wide for dividing the terrazo/mosaic flooring into panels. The cost of fixing is deemed to have been taken in composite rate of respective item.				
	1. Material				
	Glass strips	1.00	R.M.		
	Wastage @ 10%	0.10	R.M.		
		<u>1.10</u>	R.M.		
	Glass strip 5 mm thick	1.10	R.M. @	16.00	17.60
	Contractor's profit & overhead			20%	3.52
	Total Composite rate				<u>21.12</u>
					21.10
Cu.m.	Item No. 14-44-1				
	Providing, laying, watering and compacting brick ballast 2" (50 mm) and down gauge mixed with 25% sand for floor foundation.				
	1. Labour				
	Mason	2.00	Hrs @	125.00	250.00
	Labourer	4.00	Hrs @	87.50	350.00
	Bahishti	0.50	Hrs @	87.50	43.75
	Total				<u>643.75</u>
	Contractor's profit & overhead			20%	128.75
	Total Labour rate				<u>772.50</u>
					772.50
	2. Material				
	Brick/ Stone ballast	1.125	Cu.m. @	515.00	579.38
	Sand local	0.375	Cu.m. @	882.75	331.03
	Water Charges			1.50%	13.65
					<u>924.06</u>
	3. Sundries				
	Total of 2 & 3			5%	32.19
	Contractor's profit & overhead			20%	191.25
	Total Composite rate				<u>1919.99</u>
					1920.00
Sq.m.	Item No. 14-45-1				
	Grouting dry brick laid upto 4-1/2" (115 mm) nominal thick brick work with cement sand mortar 1:5				
	Detail of cost for 10 Sq.m.				
	1. Labour				
	Mason	2.00	Hrs @	125.00	250.00
	Labourer	2.00	Hrs @	87.50	175.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Bahishti	2.00	Hrs @ 87.50	175.00
	Total			600.00
	Contractor's profit & overhead		20%	120.00
	Total Labour rate			72.00
				72.00
	2. Material			
	Taking 1/4" thick vertical joint			
	3" thick	0.122		
	4.5" thick	0.274		
	Total	0.396		
	Mortar 1 : 5	0.198	Cu.m. Average = 0.198 Cu.m. @ 4104.30	812.65
	3. Sundries		5%	30.00
	Total of 2 & 3			842.65
	Contractor's profit & overhead		20%	168.53
	Total Composite rate			173.12
				173.10

Item No. 14-46**Sq.m. a) Grinding, rubbing and polishing of any kind of floor including filling the voids with same material and removing unevenness in surface**

Detail of cost for 10 Sq.m.

1. Labour

Floor polisher	6.00	Hrs @ 87.50	525.00
Labourer	6.00	Hrs @ 87.50	525.00
Floor grinder with machine	1.00	Hrs @ 87.50	87.50
Total			1137.50
Contractor's profit & overhead		20%	227.50
Total Labour rate			136.50

136.50**2. Material**

Carborandum stone	0.25	No. @ 155.00	38.75
Polish mansion	0.25	Kg. @ 348.00	87.00
Other Material		60%	75.45
			201.20
3. Sundries		5%	56.88
Total of 2 & 3			258.08

Contractor's profit & overhead		20%	51.62
Total Composite rate			167.47

167.45**b) Polishing old chips and marble tiles**

Detail of cost for 10 Sq.m.

1. Labour

Floor polisher	3.00	Hrs @ 87.50	262.50
Labourer	8.00	Hrs @ 87.50	700.00
Bahishti	0.50	Hrs @ 87.50	43.75
Total			1006.25
Contractor's profit & overhead		20%	201.25
Total Labour rate			120.75

120.75**2. Material**

Polish mansion	0.75	Kg. @ 348.00	261.00
Other Materials		30%	78.30
			339.30

3. Sundries		5%	50.31
Total of 2 & 3			389.61

Contractor's profit & overhead		20%	77.92
Total Composite rate			167.50

167.50**Sq.m. c) Extra over item 14-46 (a) & (b) for first floor**

Extra labour

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Labourer	1.00 Hrs @	87.50	87.50
Contractor's profit & overhead		20%	17.50
Total Labour rate			<u>10.50</u>

10.50

Item No. 14-47

Providing and fixing best quality shisham wood block flooring in required pattern and cut to the required sizes in any floor including fixing on a layer of bitumen and sand mixed in the proportion of 10 kg./Sq.m. of bitumen with 0.1 Cu.m./10 Sq.m. sand laid over 3/4" (19mm) thick 1:4 cement sand mortar including curing

Detail of cost for 10 Sq.m.			
Block size 300 mm x 75 mm			
No. of blocks	10 /0.3 /0.075	445	Nos.
Sq.m.	a) 1" (25 mm) nominal thick wooden floor		
1. Labour			
For wood work:			
Carpenter		72.00	Hrs @ 125.00 9000.00
Labourer		16.00	Hrs @ 87.50 1400.00
Spray man		4.00	Hrs @ 125.00 500.00
For plaster work:			
Plasterer		7.00	Hrs @ 110.00 770.00
Labourer		4.50	Hrs @ 87.50 393.75
Bahishti		1.00	Hrs @ 87.50 87.50
Total			<u>12151.25</u>
Contractor's profit & overhead			20% 2430.25
Total Labour rate			<u>1458.15</u>
2. Material			
Shesham Wood	445 x0.3 x 0.075 x 0.025	0.25	
Add for tongues and grooves @ 10%		0.025	Cu.m.
Add for wastage @ 40%		0.10	Cu.m.
		<u>0.375</u>	Cu.m.
Wood - Shisham		0.375	Cu.m. @ 70620 26515.60
Sawing charges		0.375	Cu.ft. @ 87.50 32.85
Bitumen 60/70		10.00	Kg. @ 78.00 780.00
Sand local		0.10	Cu.m. @ 882.75 88.28
Fuel wood		2.00	Kg. @ 15.00 30.00
Cement mortar 1 : 4		0.21	Cu.m. @ 4839.30 1016.25
			<u>28462.98</u>
3. Sundries			5% 607.56
Total of 2 & 3			<u>29070.55</u>
Contractor's profit & overhead			20% 5814.11
Total Composite rate			<u>4946.62</u>

4946.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. b) 1.25" (32 mm) nominal thick wooden floor

1. Labour							
Same as in item 14-47(a)						12151.25	
Contractor's profit & overhead		20%				2430.25	
Total Labour rate						1458.15	1458.15
2. Material							
Shesham Wood	445 x 0.3 x 0.075 x 0.032	0.32					
Add for tongues and grooves @ 10%		0.032	Cu.m.				
Add for wastage @ 40%		0.13	Cu.m.				
		0.481	Cu.m.				
Wood - Shisham		0.481	Cu.m.	@	70620	33939.97	
Sawing charges		0.481	Cu.m.	@	3089.63	1484.87	
Bitumen 60/70		10.00	Kg.	@	78.00	780.00	
Sand local		0.10	Cu.m.	@	882.75	88.28	
Fuel wood		2.00	Kg.	@	15.00	30.00	
Cement mortar 1 : 4		0.22	Cu.m.	@	4839.30	1064.65	
						37387.77	
3. Sundries						607.56	
Total of 2 & 3						37995.33	
Contractor's profit & overhead		20%				7599.07	
Total Composite rate						6017.59	6017.60

Item No. 14-48

Providing and fixing best quality shesham wood flooring using planks including fixing with brass screws on deodar wood frame and battens 1.5" x 2" (37mm x 50mm) placed at 12" (300mm) c/c, spacers at filling the gap between planks and concrete base with bitumen and sand mixed in the ratio of 7.2 kg bitumen in 0.05 Cu.m. sand in any floor.

Detail of cost for 10 Sq.m.

Sq.m. a) 1/2" (13 mm) nominal thick wooden floor

1. Labour							
Carpenter		44.00	Hrs	@	125.00	5500.00	
Spray man		8.00	Hrs	@	125.00	1000.00	
Labourer		12.00	Hrs	@	87.50	1050.00	
Total						7550.00	
Contractor's profit & overhead					20%	1510.00	
Total Labour rate						906.00	906.00
2. Material							
Shesham wood	10 x 0.013	0.13	Cu.m.				
Extra for rebating	5%	0.007	Cu.m.				
Wastage	40%	0.052	Cu.m.				
		0.189	Cu.m.				
Deodar wood frame	4 x 10.34	41.36	Cu.ft.				
Battens	9 x 10	90.00	Cu.ft.				
Spacers	10 x 10 /12	8.33	Cu.ft.				
		139.69	Cu.ft.				
	139.69 x 3/24 x 1/6	2.91	Cu.ft.				
Wastage @ 30%		0.87	Cu.ft.				
		3.78	Cu.ft.	=	0.11	Cu.m.	
Sand fill	107.6 x 3/24	13.45	Cu.ft.				
Less frame		2.91	Cu.ft.				
		10.54	Cu.ft.				
Wastage	10%	1.054	Cu.ft.				
		11.594	Cu.ft.	=	0.33	Cu.m.	
Bitumen	0.328 x 720/0.05	47.23	Kg.				
Wood - Shisham		0.189	Cu.m.	@	70620	13311.87	

Unit	Description	Component Cost			Unit Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Sawing charges	0.189	Cu.m.	@ 3089.63	582.39
					13894.26
	Wood - deodar 1st class	0.11	Cu.m.	@ 176550	18916.81
	Sawing charges	0.11	Cu.m.	@ 3089.63	331.04
	Iron screw 3"	6.00	No.	@ 10.00	60.00
	Brass screw 1" size	7.50	No.	@ 4.80	36.00
	Nail of all sizes	0.25	Kg.	@ 90.00	22.50
	Bitumen 60/70	50.00	Kg.	@ 78.00	3900.00
	Sand local	5.60	Cu.m.	@ 882.75	4943.40
	Fuel wood	50.00	Kg.	@ 15.00	750.00
					28959.75
	Total materials:				42854.01
	3. Sundries			5%	377.50
	Total of 2 & 3				43231.51
	Contractor's profit & overhead			20%	8646.30
	Total Composite rate				6093.78
					6093.80

Sq.m. b) 3/4" (19 mm) nominal thick wooden floor

1. Labour					
	Same as in item 14-48(a)				7550.00
	Contractor's profit & overhead			20%	1510.00
	Total Labour rate				906.00
					906.00

2. Material

	Shesham wood	10 x 0.019	0.19	Cu.m.	
	Extra for rebating	5%	0.010	Cu.m.	
	Wastage	40%	0.076	Cu.m.	
			0.276	Cu.m.	
	Wood - Shisham		0.276	Cu.m.	@ 70620
	Sawing charges		0.260	Cu.m.	@ 3089.63
					19455.81
					803.30
					20259.11
	Other materials: Same as in item 14-48(a)				28959.75
					49218.86
	3. Sundries			5%	377.50
	Total of 2 & 3				49596.36
	Contractor's profit & overhead			20%	9919.27
	Total Composite rate				6857.56
					6857.55

Item No. 14-49

Providing and laying dado/skirting with cement sand mortar in ground floor including finishing smooth with a floating coat of neat cement, rounding corners and curing

Detail of Cost for 10 Sq.m.

a) 1/2" (13 mm) thick					
Sq.m. i) Cement sand mortar 1 : 2					
1. Labour					
	Plasterer		12.00	Hrs @	110.00
	Labourer		4.00	Hrs @	87.50
	Bahishti		0.50	Hrs @	87.50
	Mason		3.00	Hrs @	125.00
	Labourer	For floating coat	3.00	Hrs @	87.50
					262.50
					2351.25
	Contractor's profit & overhead			20%	470.25
	Total Labour rate				282.15
					282.15
2. Material					
	Cement sand mortar	10 x 0.013	0.13	Cu.m. @	8442.75
	Extra cement for floating coat		22.00	Kg @	10.50
	Water charges			1.5%	19.94
					1348.49

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	3. Sundries	5%	184.99	
	Total of 2 & 3		1533.48	
	Contractor's profit & overhead	20%	306.70	
	Total Composite rate		466.17	466.15
Sq.m.	ii) Cement sand mortar 1 : 3			
	1. Labour			
	Same as in item 14-49(a)		2351.25	
	Contractor's profit & overhead	20%	470.25	
	Total Labour rate		282.15	282.15
	2. Material			
	Cement sand mortar	10 x 0.013	0.13 Cu.m. @ 6099.30	792.91
	Extra cement for floating coat		22.00 Kg @ 10.50	231.00
	Water charges		1.5%	15.36
				1039.27
	3. Sundries	5%	169.53	
	Total of 2 & 3		1208.79	
	Contractor's profit & overhead	20%	241.76	
	Total Composite rate		427.21	427.20
	b) 3/4" (19 mm) thick			
Sq.m.	i) Cement sand mortar 1 : 2			
	1. Labour			
	Plasterer	12.00	Hrs @ 110.00	1320.00
	Labourer	4.00	Hrs @ 87.50	350.00
	Bahishti	1.00	Hrs @ 87.50	87.50
	Extra Labour for floating coat			
	Mason	3.00	Hrs @ 125.00	375.00
	Labourer	3.00	Hrs @ 87.50	262.50
	Total			2395.00
	Contractor's profit & overhead	20%	479.00	
	Total Labour rate		287.40	287.40
	2. Material			
	Cement sand mortar	10 x 0.019	0.19 Cu.m. @ 8442.75	1604.12
	Extra cement for floating coat		22.00 Kg @ 10.50	231.00
	Water charges		1.5%	27.53
				1862.65
	3. Sundries	5%	212.88	
	Total of 2 & 3		2075.53	
	Contractor's profit & overhead	20%	415.11	
	Total Composite rate		536.46	536.45
Sq.m.	ii) Cement sand mortar 1 : 3			
	1. Labour			
	Same as in item 14-49(b) 1		2395.00	
	Contractor's profit & overhead	20%	479.00	
	Total Labour rate		287.40	287.40
	2. Material			
	Cement sand mortar	10 x 0.019	0.19 Cu.m. @ 6099.30	1158.87
	Extra cement for floating coat		22.00 Kg @ 10.50	231.00
	Water charges		1.5%	20.85
				1410.72
	3. Sundries	5%	190.29	
	Total of 2 & 3		1601.00	
	Contractor's profit & overhead	20%	320.20	
	Total Composite rate		479.52	479.50
Sq.m.	c) Extra if topping is not less than 1/16" (1.6 mm) thick of approved color and shade is used			

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

and pigment in grey cement is required

1. Labour					
Labourer	3.00	Hrs	@	87.50	262.50
Contractor's profit & overhead				20%	52.50
Total Labour rate					5.25
					5.25
2. Material					
Pigment	2.20	Kg.	@	82.50	181.50
Water charges				1.50%	2.72
					184.22
Contractor's profit & overhead				20%	36.84
Total Composite rate					27.36
					27.35

Item No. 14-50

Providing and laying terrazzo dado/ skirting 7/8" (22mm) thick comprising 3/8" (9mm) thick topping 1:2 (one grey cement & two marble chips) in ground floor over 1/2" (13mm) thick cement sand mortar base 1:4 with grinding, rubbing, polishing & curing.

Detail of Cost for 10 Sq.m.

Sq.m. a) 7/8" (22 mm) dado/skirting

1. Labour					
For base:					
Plasterer	12.00	Hrs	@	110.00	1320.00
Labourer	4.00	Hrs	@	87.50	350.00
Bahishti	1.00	Hrs	@	87.50	87.50
					1757.50
For topping of skirting:					
Mason	8.00	Hrs	@	125.00	1000.00
Labourer	4.00	Hrs	@	87.50	350.00
Floor grinder with machine	8.00	Hrs	@	87.50	700.00
Floor polisher	4.00	Hrs	@	87.50	350.00
Bahishti	1.50	Hrs	@	87.50	131.25
Total					4288.75
Contractor's profit & overhead				20%	857.75
Total Labour rate					514.65
					514.65
2. Material					
Cement sand mortar 1 : 4	0.13	Cu.m.	@	6099.30	792.91
Marble chips	168.00	Kg.	@	5.00	840.00
Cement OPC	82.00	Kg.	@	10.50	861.00
Marble powder	27.00	Kg.	@	6.00	162.00
Carborandum stone	0.25	No.	@	155.00	38.75
Mansion polish	0.25	Kg.	@	315.00	78.75
Water charges				1.50%	41.60
					2815.00
3. Sundries				5%	216.52
Total of 2 & 3					3031.52
Contractor's profit & overhead				20%	606.30
Total Composite rate					878.43
					878.45

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. b) Extra if 1/2" (13 mm) thick topping is used

1. Labour					
Mason	0.50	Hrs @	125.00	62.50	
Labourer	0.50	Hrs @	87.50	43.75	
Total				106.25	
Contractor's profit & overhead			20%	21.25	
Total Labour rate				2.13	2.15

2. Material					
Marble chips	56.00	Kg. @	5.00	280.00	
Cement OPC	24.00	Kg. @	10.50	252.00	
Marble powder	8.00	Kg. @	6.00	48.00	
Water charges			1.5%	8.70	
				588.70	
Contractor's profit & overhead			20%	117.74	
Total Composite rate				72.77	72.75

Sq.m. c) Extra if white cement is used for 1/8" (3.2 mm) terrazo thickness

Material					
Cement - white	24.00	Kg. @	15.00	360.00	
Cement - grey	24.00	Kg. @	10.50	252.00	
Difference of cost				108.00	
Contractor's profit & overhead			20%	21.60	
Total Composite rate				12.96	12.95

Sq.m. d) Extra if color pigment is used for 1/8" (3.2 mm) terrazo thickness

1. Labour					
Labourer	1.00	Hrs @	87.50	87.50	
Contractor's profit & overhead			20%	17.50	
Total Labour rate				1.75	1.75
2. Material					
Pigment	2.50	Kg. @	82.50	206.25	
Contractor's profit & overhead			20%	41.25	
Total Composite rate				26.50	26.50

Item No. 14-51-1**Sq.m. Providing and laying dado/skirting 3/4" (19mm) thick comprising 1/4" (6mm) thick white cement plaster 1:3 as topping in ground floor over 1/2" (13mm) thick cement sand mortar 1:4 including finishing smooth & curing.**

Detail of cost for 10 Sq.m.

1. Labour					
For base:	Same as in item 14-48(2)			1757.50	
For topping of skirting					
Mason	6.00	Hrs @	125.00	750.00	
Labourer	6.00	Hrs @	87.50	525.00	
Bahishti	0.75	Hrs @	87.50	65.63	
Total				3098.13	
Contractor's profit & overhead			20%	619.63	
Total Labour rate				371.78	371.80

2. Material				
Cement sand mortar 1:4	0.13	Cu.m. @	4839.30	629.11
Cement - white	112.00	Kg. @	15.00	1680.00
Marble powder	38.00	Kg. @	6.00	228.00
Water charges			1.5%	38.06
				2575.17

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	3. Sundries	5%	154.91
	Total of 2 & 3		2730.07
	Contractor's profit & overhead	20%	546.01
	Total Composite rate		699.38
			699.40

Item No. 14-52

Providing and laying stone-lithic dado/skirthing 7/8" (22mm) thick comprising 3/8" (9mm) thick topping 1:3 using equal parts of 1/8" to 1/4" screenings without sand over 1/2" thick cement sand mortar base 1:4 in ground floor including curing, rubbing with carborandum stone & polishing.

Detail of Cost for 10 Sq.m.

Sq.m. a) 7/8" (22 mm) stone lithic skirting

1. Labour

For cement mortar: Same as in item 14-48	1757.50	
For stone-lithic topping: Same as in item 14-5(a)	151.25	
Total	1908.75	
Contractor's profit & overhead	20%	381.75
Total Labour rate	229.05	

229.05

2. Material

For base:

Cement sand mortar 1 : 4	0.13	Cu.m.	@	4839.30	629.11
Stone-lithic topping: Same as in item 14-5(a)					73.44
					702.55

317.55**Sq.m. b) Extra if 1/2" (13 mm) thick topping is used**

Labour

Rate same as in item 14-5(b)	151.25	
Contractor's profit & overhead	20%	30.25
Total Labour rate	18.15	

18.15

Composite

Rate same as in item 14-5(b)

Contractor's profit & overhead

Total Composite rate

26.95**Item No. 14-53**

Detail of Cost for 10 Sq.m.

Sq.m. a) Extra for dado/skirting of any description for basement floors over item No. 14-51 and 14-52

Extra labour

Labourer	2.50	Hrs	@	87.50	218.75
Contractor's profit & overhead				20%	43.75
Total Labour rate					26.25

26.25**Sq.m. b) Extra for dado/skirting of any description for first floor over item No. 14-51 and 14-52**

Extra labour

Labourer	3.00	Hrs	@	87.50	262.50
Contractor's profit & overhead				20%	52.50
Total Labour rate					31.50

31.50**Sq.m. c) Extra for dado/skirting of any description for every additional floor over item No. 14-51 and 14-52**

Same as in item 14-53(a) above

26.25

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-54

- Sq.m. a) Providing and fixing 3/8" (9mm) thick super white marble tiles dressed on the surface in dado/skirting and facing in ground floor over 1/2" (13mm) thick base of cement sand mortar 1:3, setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with white cement slurry, curing, finishing, grinding, cleaning & polishing.

Detail of Cost for 10 Sq.m.

1. Labour

Chiseller marble	4.00	Hrs	@	98	390
Tile layer	8.00	Hrs	@	130	1040
Floor grinder with machine	8.00	Hrs	@	88	700
Floor polisher	4.00	Hrs	@	88	350
Labourer	8.00	Hrs	@	88	700
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					3575
Contractor's profit & overhead				20%	715
Total Labour rate					429

429.00

2. Material

Marble tiles - super white 3/8" thick	10.15	Sq.m.	@	1190.00	12078.50
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	202.52
					13703.92

3. Sundries

				5%	178.75
Total of 2 & 3					13882.67
Contractor's profit & overhead				20%	2776.53
Total Composite rate					2094.92

2094.90

- Sq.m. b) Deduct from item 14-54(a) above if Lasbela marble is used instead of super white marble

Detail of cost for 10 Sq.m.

Difference in material cost

Marble tiles - super white 3/8" thick	10.15	Sq.m.	@	1190.00	12078.50
Marble tiles - Lasbella 3/8" thick	10.15	Sq.m.	@	650.00	6597.50
					5481.00
Contractor's profit & overhead				20%	1096.20
Total Composite rate					657.72

657.70

- Sq.m. c) Deduct from item 14-54(a) above if Badal marble is used instead of super white marble

Detail of cost for 10 Sq.m.

Difference in material cost

Marble tiles - super white 3/8" thick	10.15	Sq.m.	@	1190.00	12078.50
Marble tiles - Badal 3/8" thick	10.15	Sq.m.	@	575.00	5836.25
					6242.25
Contractor's profit & overhead				20%	1248.45
Total Composite rate					749.07

749.05**Item No. 14-55**

Extra for dado/skirting of any description

- Sq.m. a) Extra for basement

Same as in item 14-53(a) above

26.25

26.25

- Sq.m. b) Extra for first floor

Extra labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Labourer	3.50	Hrs @ 87.50	30.63
	Contractor's profit & overhead		20%	6.13
	Total Labour rate			<u>36.75</u>
				36.75
Sq.m.	c) Extra for every additional floor above first floor			
	Extra labour			
	Labourer	3.00	Hrs @ 87.50	262.50
	Contractor's profit & overhead		20%	52.50
	Total Labour rate			<u>31.50</u>
				31.50
Sq.m.	d) Extra for every 10 ft (3 m) height or part thereof in external facing			
	Extra labour			
	Mason	8.00	Hrs @ 125.00	1000.00
	Labourer	8.00	Hrs @ 87.50	700.00
	Contractor's profit & overhead		20%	140.00
	Total Labour rate			<u>184.00</u>
				184.00
	Sundries		5%	85.00
	Contractor's profit & overhead		20%	17.00
	Total Composite rate			<u>194.20</u>
				194.20
	Item No. 14-56-1			
Sq.m.	Providing and laying ashlar, rough tooled or block in coursed stone facing upto 4" (100 mm) nominal thickness in cement mortar 1:3 upto a height of 10 ft (3 m) including curing on external face.			
	Detail of Cost for 10 Sq.m.			
	1. Labour			
	Stone chiseller	4.00	Hrs @ 90.00	360.00
	Mason	8.00	Hrs @ 125.00	1000.00
	Labourer	8.00	Hrs @ 87.50	700.00
	Bahishti	8.00	Hrs @ 87.50	700.00
	Mistri	4.00	Hrs @ 110.00	440.00
	Black smith	2.00	Hrs @ 112.00	224.00
	Bellow boy	2.00	Hrs @ 87.50	175.00
	Total			<u>3599.00</u>
	Contractor's profit & overhead		20%	719.80
	Total Labour rate			<u>431.88</u>
				431.90
	2. Material			
	Building stone	1.52	Cu.m. @ 706.20	1073.42
	Cement mortar 1 :3	0.15	Cu.m. @ 6099.30	914.90
	Water charges		1.5%	29.82
				<u>2018.14</u>
	3. Scaffolding and sundries		5%	280.86
	Total of 2 & 3			<u>2299.00</u>
	Contractor's profit & overhead		20%	459.80
	Total Composite rate			<u>707.76</u>
				707.75
	Item No. 14-57-1			
Sq.m.	Providing and laying ashlar, fine stone facing upto 3" (75 mm) thick in cement mortar 1:3 upto a height of 10 ft (3 m) including curing on external face.			
	Detail of Cost for 10 Sq.m.			
	1. Labour			
	Same as in item No. 14-56			3599.00
	Extra chiseller	8.00	Hrs @ 90.00	720.00
	Total			<u>4319.00</u>
	Contractor's profit & overhead		20%	863.80
	Total Labour rate			<u>518.28</u>
				518.30
	2. Material			
	Building stone	1.52	Cu.m. @ 706.20	1073.42

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Cement mortar 1 :3	0.15	Cu.m. @ 6099.30	914.90
	Water charges		1.5%	29.82
				2018.14
	3. Scaffolding and sundries		5%	316.86
	Total of 2 & 3			2335.00
	Contractor's profit & overhead		20%	467.00
	Total Composite rate			798.48
				798.50

Item No. 14-58-1

Sq.m. Providing and laying coursed rubble stone facing upto 4" (100mm) thick in cement mortar 1:3 upto a height of 10 ft (3 m) including curing on external face.

Detail of Cost for 10 Sq.m.

1. Labour

Stone chiseller	8.00	Hrs	@	90.00	720.00
Mason	12.00	Hrs	@	125.00	1500.00
Labourer	16.00	Hrs	@	87.50	1400.00
Bahishti	2.00	Hrs	@	87.50	175.00
Mistri	0.25	Hrs	@	110.00	27.50
Total					3822.50
Contractor's profit & overhead				20%	764.50
Total Labour rate					458.70
					458.70

2. Material

Building stone	1.00	Cu.m.	@	706.20	706.20
Cement mortar 1 :3	0.23	Cu.m.	@	6099.30	1402.84
Water charges				1.5%	31.64
					2140.67
3. Scaffolding and sundries				5%	298.16
Total of 2 & 3					2438.83
Contractor's profit & overhead				20%	487.77
Total Composite rate					751.36
					751.35

Item No. 14-59-1

Sq.m. Providing and laying un-coursed rubble stone facing upto 4" (100mm) thick in cement mortar 1:3 upto a height of 10 ft (3m) including curing on external face

Detail of Cost for 10 Sq.m.

1. Labour

Mason	5.00	Hrs	@	125.00	625.00
Labourer	8.00	Hrs	@	87.50	700.00
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.25	Hrs	@	110.00	27.50
Total					1483.75
Contractor's profit & overhead				20%	296.75
Total Labour rate					178.05
					178.05

2. Material

Building stone	1.05	Cu.m.	@	706.20	741.51
Cement mortar 1 :3	0.30	Cu.m.	@	6099.30	1829.79
Water charges				1.5%	38.57
					2609.87
3. Scaffolding and sundries				5%	204.68
Total of 2 & 3					2814.55
Contractor's profit & overhead				20%	562.91
Total Composite rate					515.80
					515.80

Item No. 14-60-1

Sq.m. Providing and laying random rubble stone facing upto 4" (100mm) thick in cement mortar 1:3 upto a height of 10 ft (3 m) including curing on external face

Detail of Cost for 10 Sq.m.

1. Labour

Stone chiseller	2.00	Hrs	@	90.00	180.00
Mason	16.00	Hrs	@	125.00	2000.00

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Labourer	16.00	Hrs	@ 87.50	1400.00	
	Bahishti	2.00	Hrs	@ 87.50	175.00	
	Mistri	0.25	Hrs	@ 110.00	27.50	
	Total				3782.50	
	Contractor's profit & overhead			20%	756.50	
	Total Labour rate				453.90	453.90
	2. Material					
	Building stone	1.10	Cu.m.	@ 706.20	776.82	
	Cement mortar 1 :3	0.25	Cu.m.	@ 6099.30	1524.83	
	Water charges			1.5%	34.53	
					2336.18	
	3. Scaffolding and sundries			5%	305.93	
	Total of 2 & 3				2642.11	
	Contractor's profit & overhead			20%	528.42	
	Total Composite rate				770.95	770.95
	Item No. 14-61-1					
Sq.m.	Extra for every additional 10 ft (3 m) height or part thereof on external face work over item No. 14-56-1 to 14-60-1					
	Detail of Cost for 10 Sq.m.					
	Mason	16.00	Hrs	@ 125.00	2000.00	
	Labourer	16.00	Hrs	@ 87.50	1400.00	
	Bahishti	2.00	Hrs	@ 87.50	175.00	
	Total				3575.00	
	Contractor's profit & overhead			20%	715.00	
	Total Labour rate				429.00	429.00
	Item No. 14-62					
Kg.	Extra for providing and fixing iron lugs of required length and shape for securing stone facing with the wall surface of all kinds in any floor including the cost of making holes in the wall & grouting with cement mortar 1:2					
	Detail of Cost for 10 Kg					
	1. Labour					
	Stone chiseller	16.00	Hrs	@ 90.00	1440.00	
	Mason	4.00	Hrs	@ 125.00	500.00	
	Labourer	10.00	Hrs	@ 87.50	875.00	
	Bahishti	1.25	Hrs	@ 87.50	109.38	
	Total				2924.38	
	Contractor's profit & overhead			20%	584.88	
	Total Labour rate				350.93	350.95
	2. Material					
	Flat iron of size 1" x 1/4" (25 mm x 6 mm) lugs are used					
	Flat iron	10.00	Kg.			
	Wastage	2.5%			0.25	
					10.25	
	Flat iron	10.25	Kg.	@ 80.00	820.00	
	Cement Mortar 1 : 2	0.03	Cu.m.	@ 8442.75	253.28	
	Water charges			1.5%	16.10	
					1089.38	
	3. Scaffolding and sundries			5%	200.69	
	Total of 2 & 3				1290.07	
	Contractor's profit & overhead			20%	258.01	
	Total Composite rate				505.73	505.75

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-63-1

Kg. Providing and fixing dowel bars 1/4" (6 mm) dia of required length and shape for securing marble wall lining on any surface in any floor including the cost of drilling holes in marble tiles and wall & grouting with cement mortar 1:2

Detail of Cost for 10 Kg

1. Labour

Black smith	9.00	Hrs	@	112.00	1008.00
Stone chiseller	18.00	Hrs	@	90.00	1620.00
Mason	18.00	Hrs	@	125.00	2250.00
Labourer	18.00	Hrs	@	87.50	1575.00
Total					6453.00
Contractor's profit & overhead				20%	1290.60
Total Labour rate					774.36

774.35

2. Material

Dowel bar clamps	10.25	Kg.	@	120.00	1230.00
Cement mortar 1 : 2	0.03	Cu.m.	@	8442.75	253.28
Water charges				1.5%	22.25
					1505.53

3. Scaffolding and sundries 5% 322.65

Total of 2 & 3 1828.18

Contractor's profit & overhead 20% 365.64

Total Composite rate 993.74

993.75**Item No. 14-64**

Sq.m. a) Providing and fixing 1/4" to 3/8" (6mm to 9mm) thick Ceramic Glazed/Matt tiles (Prime Quality) of any colour and size, as directed by Engineer-in-Charge in dado/skirting in ground floor over 1/2" (13mm) thick base of cement mortar 1:3, setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with white cement slurry of matching color, cleaning & curing.

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	8.00	Hrs	@	130.00	1040.00
Labourer	8.00	Hrs	@	87.50	700.00
Bahishti	8.00	Hrs	@	87.50	700.00
Total					2440.00
Contractor's profit & overhead				20%	488.00
Total Labour rate					292.80

292.80

2. Material

Ceramic Tile glazed/matt (Prime Quality)	10.50	Sq. m.	@	825.00	8662.50
Cement - white	7.00	Kg.	@	15.00	105.00
Cement OPC	55.00	Kg.	@	10.50	577.50
Pigment	0.75	Kg.	@	82.50	61.88
Cement mortar 1 : 3	0.13	Cu.m.	@	6099.30	792.91
water charges				1.5%	153.00
					10352.78

3. Sundries 5% 122.00

Total of 2 & 3 10474.78

Contractor's profit & overhead 20% 2094.96

Total Composite rate 1549.77

1549.75

Sq.m. b) Extra for basement over item 14-64(a) above

Extra labour

Labourer	2.00	Hrs	@	87.50	175.00
Contractor's profit & overhead				20%	35.00
Total Labour rate					21.00

21.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Sq.m.	c) Extra for first floor over item 14-64(a) above			
	Extra labour			
	Labourer	2.50	Hrs @ 87.50	218.75
	Contractor's profit & overhead		20%	43.75
	Total Labour rate			<u>26.25</u>
				26.25
Sq.m.	d) Extra for every additional floor above first floor over item 14-64(a)			
	Extra labour			
	Labourer	1.75	Hrs @ 87.50	153.13
	Contractor's profit & overhead		20%	30.63
	Total Labour rate			<u>18.38</u>
				18.40
	Item No. 14-65			
Sq.m.	a) Providing and laying 3/4"(19mm) thick mosaic tiles 6"x 6" size dado/skirting of approved design in any color, shade and pattern in ground floor over 3/8" thick base cement sand mortar 1:3 including setting the tiles with portland cement slurry over cement sand jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & mortar cost.			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Tile layer	16.00	Hrs @ 130.00	2080.00
	Labourer	16.00	Hrs @ 87.50	1400.00
	Bahishti	0.50	Hrs @ 87.50	43.75
	Floor polisher	6.00	Hrs @ 87.50	525.00
	Total			<u>4048.75</u>
	Contractor's profit & overhead		20%	809.75
	Total Labour rate			<u>485.85</u>
				485.85
	2. Material			
	Tiles mosaic 3/4" thick	10.50	Sq.m. @ 325.00	3412.50
	Cement - white	5.00	Kg. @ 15.00	75.00
	Cement OPC	95.00	Kg. @ 10.50	997.50
	Pigment	0.50	Kg. @ 82.50	41.25
	Carborandum stone	0.25	No. @ 155.00	38.75
	Mansion polish	0.25	Kg. @ 315.00	78.75
	Cement mortar 1:3	0.13	Cu.m. @ 6099.30	792.91
				<u>5436.66</u>
	3. Sundries		5%	202.44
	Total of 2 & 3			<u>5639.10</u>
	Contractor's profit & overhead		20%	1127.82
	Total Composite rate			<u>1162.54</u>
				1162.55
Sq.m.	b) Extra for dado/skirting in basement			
	Extra labour			
	Labourer	2.50	Hrs @ 87.50	218.75
	Contractor's profit & overhead		20%	43.75
	Total Labour rate			<u>26.25</u>
				26.25
Sq.m.	c) Extra for dado/skirting in first floor			
	Extra labour			
	Labourer	3.50	Hrs @ 87.50	306.25
	Contractor's profit & overhead		20%	61.25
	Total Labour rate			<u>36.75</u>
				36.75
Sq.m.	d) Extra for dado/skirting in every additional floor above first floor			
	Extra labour			
	Labourer	3.00	Hrs @ 87.50	262.50
	Contractor's profit & overhead		20%	52.50
	Total Labour rate			<u>31.50</u>
				31.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-66

- Sq.m. a) **Providing and fixing 3/4" (19mm) thick cement tiles 6"x 6" size, dado/skirting of approved design in any color, shade or flowered pattern in ground floor over 1/2" (13mm) thick cement sand mortar 1:3 including setting the tiles with portland cement slurry, jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & mortar cost.**

Detail of cost for 10 Sq.m.

1. Labour

Same as in item 14-65(a)

Contractor's profit & overhead	20%	4048.75	809.75
Total Labour rate		485.85	485.85

2. Material

Tiles cement 3/4" thick	10.50	Sq.m.	@	370.00	3885.00
Cement - white	48.00	Kg.	@	15.00	720.00
Cement OPC	48.00	Kg.	@	10.50	504.00
Pigment	1.00	Kg.	@	82.50	82.50
Cement mortar 1:3	0.13	Cu.m.	@	6099.30	792.91
					5984.41

3. Sundries

				5%	202.44
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Total of 2 & 3

					6186.85
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Contractor's profit & overhead

	20%	1237.37	
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Total Composite rate

		1228.27	1228.25
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- Sq.m. b) **Extra for dado/skirting in basement**

Extra labour

Labourer	2.50	Hrs	@	87.50	218.75
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Contractor's profit & overhead

	20%	43.75	
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Total Labour rate

		26.25	26.25
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- Sq.m. c) **Extra for dado/skirting in first floor**

Extra labour

Labourer	3.50	Hrs	@	87.50	306.25
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Contractor's profit & overhead

	20%	61.25	
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Total Labour rate

		36.75	36.75
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- Sq.m. d) **Extra for dado/skirting in every additional floor above first floor**

Extra labour

Labourer	3.00	Hrs	@	87.50	262.50
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Contractor's profit & overhead

	20%	52.50	
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Total Labour rate

		31.50	31.50
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Item No. 14-67

Providing and fixing flexible Polyvinyl chloride (PVC) tiles dado/skirting of Decora or any approved make and shade in ground floor including fixing with approved adhesive including 1/2" (13mm) thick cement sand plaster base 1:3, finishing, cleaning & curing.

Detail of Cost for 10 Sq.m.

- Sq.m. a) **P.V.C. tiles 305mm x 305mm x 2mm**

1. Labour

For base plaster same as in item 14-47(a)

Tile layer	4.00	Hrs	@	130.00	520.00
Labourer	4.00	Hrs	@	87.50	350.00

Total

					2627.50
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Contractor's profit & overhead

	20%	525.50	
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Total Labour rate

		315.30	315.30
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2. Material

Cement mortar 1:3	0.13	Cu.m.	@	6099.30	792.91
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Tiles Premium quality 2 mm thick	10.25	Sq.m.	@	437.50	4484.38
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Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	P.V.C Jointing solution	2.30	Kg.	@ 233.00	535.90	
					5813.18	
	3. Sundries			5%	131.38	
	Total of 2 & 3				5944.56	
	Contractor's profit & overhead			20%	1188.91	
	Total Composite rate				1028.65	1028.65
Sq.m.	b) Marble colored P.V.C. tiles 305mm x 305mm x 1.8mm for dado/skirting					
	1. Labour					
	Same as in item 14-67(a)				2627.50	
	Contractor's profit & overhead			20%	525.50	
	Total Labour rate				315.30	315.30
	2. Material					
	Cement mortar 1:3	0.13	Cu.m.	@ 6099.30	792.91	
	Tiles Royal quality 1.8 mm thick	10.25	Sq.m.	@ 517.50	5304.38	
	P.V.C Jointing solution	2.30	Kg.	@ 233.00	535.90	
					6633.18	
	3. Sundries			5%	131.38	
	Total of 2 & 3				6764.56	
	Contractor's profit & overhead			20%	1352.91	
	Total Composite rate				1127.05	1127.05
Sq.m.	c) Extra for dado/skirting in basement					
	Extra labour					
	Labourer	9.20	Hrs	@ 87.50	805.00	
	Contractor's profit & overhead			20%	161.00	
	Total Labour rate				96.60	96.60
Sq.m.	d) Extra for dado/skirting in first floor					
	Extra labour					
	Labourer	9.95	Hrs	@ 87.50	870.63	
	Contractor's profit & overhead			20%	174.13	
	Total Labour rate				104.48	104.50
Sq.m.	e) Extra for dado/skirting in every additional floor above first floor					
	Extra labour					
	Labourer	9.75	Hrs	@ 87.50	853.13	
	Contractor's profit & overhead			20%	170.63	
	Total Labour rate				102.38	102.40
	Item No. 14-68					
	Providing and laying 1:2:4 P.C.C roof screeding using crushed stone 3/4" (19mm) including formwork, consolidation, finishing and curing					
Sq.m.	a) 1-1/2" (37.5mm) nominal thick P.C.C. roof screeding					
	1. Labour					
	5% extra as in item 14-2(a)1				1292.81	
	Contractor's profit & overhead			20%	258.56	
	Total Labour rate				155.14	155.15
	2. Material					
	Same as in item 14-2(a)1				1864.47	
	3. Formwork and sundries			5%	64.64	
	Total of 2 & 3				1929.11	
	Contractor's profit & overhead			20%	385.82	
	Total Composite rate				386.63	386.65

Unit	Description	Component Cost		Unit Rate
			(Rs)	(Rs)
Sq.m.	b) 2" (50mm) nominal thick P.C.C. roof screeding			
	1. Labour			
	5% extra as in item 14-2(a)2		1607.81	
	Contractor's profit & overhead	20%	321.56	
	Total Labour rate		192.94	192.95
	2. Material			
	Same as in item 14-2(a)2		2734.56	
	3. Formwork and sundries	5%	80.39	
	Total of 2 & 3		2814.95	
	Contractor's profit & overhead	20%	562.99	
	Total Composite rate		530.73	530.75
Sq.m.	c) 3" (75mm) nominal thick P.C.C. roof screeding			
	1. Labour			
	5% extra as in item 14-2(a)3		1968.75	
	Contractor's profit & overhead	20%	393.75	
	Total Labour rate		236.25	236.25
	2. Material			
	Same as in item 14-2(a)3		3728.94	
	3. Formwork and sundries	5%	98.44	
	Total of 2 & 3		3827.38	
	Contractor's profit & overhead	20%	765.48	
	Total Composite rate		695.54	695.55
Sq.m.	d) Extra for first floor			
	Extra labour			
	Labourer	18.00	Hrs @ 87.50	1575.00
	Contractor's profit & overhead		20%	315.00
	Total Labour rate			189.00
				189.00
Sq.m.	e) Extra for every additional floor above first floor			
	Extra labour			
	Labourer	8.70	Hrs @ 87.50	761.25
	Contractor's profit & overhead		20%	152.25
	Total Labour rate			91.35
				91.35
	Item No. 14- 69			
	Providing and laying glass strips upto 1" (25 mm) thick of any section in floors of any description.			
	Considering a length of 100 R.ft			
R.M.	a) 3 mm thick			
	1. Labour			
	1. Labour			
	Mason	4.00	Hrs @ 125.00	500.00
	Labourer	4.00	Hrs @ 87.50	350.00
				850.00
	Contractor's profit & overhead		20%	170.00
	Total Labour rate			33.47
				33.45
	2. Material			
	Glass strip 3 mm thick	100.00	R.ft @ 3.35	335.26
	Contractor's profit & overhead		20%	67.05
	Total Composite rate			46.67
				46.65
R.M.	b) 5 mm thick			
	1. Labour			
	Total Labour rate	Same as in item 14-71a		33.47
				33.45

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Material					
Glass strip 5 mm thick	100.00	R.ft	@	4.88	487.66
Contractor's profit & overhead				20%	97.53
Total Composite rate					<u>52.67</u>

52.65**Item No.14-70**

Sq.m. Providing and laying 3/4"(19mm) thick Granite polished tiles of any size on floor of approved design in any color, shade and pattern in ground floor over 3/8" thick base cement sand mortar 1:3 including setting the tiles with portland cement slurry over cement sand jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & mortar cost.

a) Granite black (local)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					<u>4925</u>
Contractor's profit & overhead				20%	985
Total Labour rate					<u>591</u>

591.00

2. Material

Granite black (local)	10.15	Sq.m.	@	5918.00	60067.70
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	922.37
					<u>62412.97</u>
3. Sundries				1%	624.13
Total of 2 & 3					63037.10
Contractor's profit & overhead				20%	12607.42
Total Composite rate					<u>7564.45</u>

7564.45**b) Granite black (China)**

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					<u>4925</u>
Contractor's profit & overhead				20%	985
Total Labour rate					<u>591</u>

591.00

2. Material

Granite black (China)	10.15	Sq.m.	@	7397.50	75084.63
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	1147.62
					<u>77655.15</u>
3. Sundries				1%	776.55
Total of 2 & 3					78431.71
Contractor's profit & overhead				20%	15686.34
Total Composite rate					<u>9904.30</u>

9904.30**c) Granite Red Rubi (Indian)**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925

Contractor's profit & overhead 20% 985

Total Labour rate 591

591.00

2. Material

Granite Red Rubi (Indian)	10.15	Sq.m.	@	7397.50	75084.63
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	1147.62
					77655.15

3. Sundries 1% 776.55

Total of 2 & 3 78431.71

Contractor's profit & overhead 20% 15686.34

Total Composite rate 9904.30

9904.30**d) Granite Red chilli (Mylasian)**

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925

Contractor's profit & overhead 20% 985

Total Labour rate 591

591.00

2. Material

Granite Red chilli (Mylasian)	10.15	Sq.m.	@	7397.50	75084.63
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	1147.62
					77655.15

3. Sundries 1% 776.55

Total of 2 & 3 78431.71

Contractor's profit & overhead 20% 15686.34

Total Composite rate 9904.30

9904.30**e) Granite Galaxy Black (Indian)**

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925

Contractor's profit & overhead 20% 985

Total Labour rate 591

591.00

2. Material

Granite Galaxy Black (Indian)	10.15	Sq.m.	@	8070.00	81910.50
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Cement - white	3.50	Kg. @ 15.00	52.50
	Cement OPC	55.00	Kg. @ 10.50	577.50
	Cement mortar 1 :3	0.13	Cu.m. @ 6099.30	792.91
	Water charges		1.5%	1250.00
				<u>84583.40</u>
	3. Sundries		1%	845.83
	Total of 2 & 3			85429.24
	Contractor's profit & overhead		20%	17085.85
	Total Composite rate			<u>10744.01</u>

10744.00**f) Granite baltic brown (Mylasian)**

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs @ 130	2080
Labourer	28.00	Hrs @ 88	2450
Bahishti	2.00	Hrs @ 88	175
Mistri	2.00	Hrs @ 110	220
Total			<u>4925</u>
Contractor's profit & overhead		20%	985
Total Labour rate			<u>591</u>

591.00

2. Material

Granite baltic brown (Mylasian)	10.15	Sq.m. @ 8877.00	90101.55
Cement - white	3.50	Kg. @ 15.00	52.50
Cement OPC	55.00	Kg. @ 10.50	577.50
Cement mortar 1 :3	0.13	Cu.m. @ 6099.30	792.91
Water charges		1.5%	1372.86
			<u>92897.32</u>
3. Sundries		1%	928.97
Total of 2 & 3			93826.29
Contractor's profit & overhead		20%	18765.26
Total Composite rate			<u>11751.66</u>

11751.65**g) Granite camel brown (Mylasian)**

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs @ 130	2080
Labourer	28.00	Hrs @ 88	2450
Bahishti	2.00	Hrs @ 88	175
Mistri	2.00	Hrs @ 110	220
Total			<u>4925</u>
Contractor's profit & overhead		20%	985
Total Labour rate			<u>591</u>

591.00

2. Material

Granite camel brown (Mylasian)	10.15	Sq.m. @ 7397.50	75084.63
Cement - white	3.50	Kg. @ 15.00	52.50
Cement OPC	55.00	Kg. @ 10.50	577.50
Cement mortar 1 :3	0.13	Cu.m. @ 6099.30	792.91
Water charges		1.5%	1147.62
			<u>77655.15</u>
3. Sundries		1%	776.55
Total of 2 & 3			78431.71
Contractor's profit & overhead		20%	15686.34
Total Composite rate			<u>9904.30</u>

9904.30**h) Granite raw-silk (Mylasian)**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Granite raw-silk (Mylasian)	10.15	Sq.m.	@	7397.50	75084.63
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	1147.62
					77655.15

3. Sundries

				1%	776.55
Total of 2 & 3					78431.71
Contractor's profit & overhead				20%	15686.34
Total Composite rate					9904.30

9904.30

i) Granite blue per (Mylasian)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Granite blue per (Mylasian)	10.15	Sq.m.	@	10760.00	109214.00
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	1659.56
					112296.46

3. Sundries

				1%	1122.96
Total of 2 & 3					113419.43
Contractor's profit & overhead				20%	22683.89
Total Composite rate					14102.83

14102.85

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 14-71

- Sq.m. a) Providing and laying 6-9mm thick Acid or Alkali Resistant tiles 12"x 12" size , on ground floor over 1" (25mm) thick cement sand mortar 1:2 including setting the tiles with portland cement slurry over cement sand including jointing and washing the tiles with acid proof cement slurry of matching color by using color pigment and curing

Detail of cost for 10 Sq.m.

1. Labour

Tile layer	18.00	Hrs	@	130.00	2340.00
Labourer	18.00	Hrs	@	87.50	1575.00
Bahishti	6.00	Hrs	@	87.50	525.00
Total					4440.00
Contractor's profit & overhead				20%	888.00
Total Labour rate					532.80

532.80

2. Material

Acid/ Alkali Resistant Tile	10.00	Sq. m.	@	800.00	8,000.00
Acid Proof Cement	5.00	Kg.	@	35.00	175.00
Cement OPC	100.00	Kg.	@	10.50	1,050.00
Pigment	0.25	Kg.	@	82.50	20.63
Cement mortar 1 : 2	0.25	Cu.m.	@	8442.75	2,110.69
water charges				1.5%	170.34
					11,526.66

3. Sundries

				5%	222.00
Total of 2 & 3					11,748.66
Contractor's profit & overhead				20%	2,349.73
Total Composite rate					1,942.64

1942.65

- Sq.m. b) Extra for basement over item 14-71(a) above

Extra labour					
Labourer	2.00	Hrs	@	87.50	175.00
Contractor's profit & overhead				20%	35.00
Total Labour rate					21.00

21.00

- Sq.m. c) Extra for first floor over item 14-71(a) above

Extra labour					
Labourer	2.50	Hrs	@	87.50	218.75
Contractor's profit & overhead				20%	43.75
Total Labour rate					26.25

26.25

- Sq.m. d) Extra for every additional floor above first floor over item 14-71(a) above

Extra labour					
Labourer	1.50	Hrs	@	87.50	131.25
Contractor's profit & overhead				20%	26.25
Total Labour rate					15.75

15.75**Item No. 14-72**

- Sq.m. a) Providing and fixing 6 - 9mm thick Acid or Alkali Resistant tiles 12"x 12" size , of any colour, in dado/skirting in ground floor over 1/2" (13mm) thick base of cement mortar 1:3, setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with acid proof cement slurry of matching color, cleaning & curing.

Detail of Cost for 10 Sq.m.

1. Labour

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Tile layer	28.00	Hrs	@ 130.00	3640.00	
	Labourer	8.00	Hrs	@ 87.50	700.00	
	Bahishti	0.50	Hrs	@ 87.50	43.75	
	Total				4383.75	
	Contractor's profit & overhead			20%	876.75	
	Total Labour rate				526.05	526.05
	2. Material					
	Acid/ Alkali Resistant Tiles - (5% Wastage Added)	10.50	Sq.M	@ 800.00	8400.00	
	Acid Proof Cement	7.00	Kgs.	@ 35.00	245.00	
	Cement OPC	55.00	Kg.	@ 10.50	577.50	
	Pigment	0.75	Kg.	@ 82.50	61.88	
	Cement mortar 1 : 3	0.13	Cu.m.	@ 6099.30	792.91	
	water charges			1.5%	151.16	
					10228.44	
	3. Sundries			5%	219.19	
	Total of 2 & 3				10447.63	
	Contractor's profit & overhead			20%	2089.53	
	Total Composite rate				1779.77	1779.75
Sq.m.	b) Extra for basement over item 14-72(a) above					
	Extra labour					
	Labourer	2.00	Hrs	@ 87.50	175.00	
	Contractor's profit & overhead			20%	35.00	
	Total Labour rate				21.00	21.00
Sq.m.	c) Extra for first floor over item 14-72(a) above					
	Extra labour					
	Labourer	2.50	Hrs	@ 87.50	218.75	
	Contractor's profit & overhead			20%	43.75	
	Total Labour rate				26.25	26.25
Sq.m.	d) Extra for every additional floor above first floor over item 14-72(a)					
	Extra labour					
	Labourer	1.75	Hrs	@ 87.50	153.13	
	Contractor's profit & overhead			20%	30.63	
	Total Labour rate				18.38	18.40

Item No. 14-73

- Sq.m. a) Providing and laying Vitrified/ Porcelain (Imported but not Chinese) tiles in floor with different sizes, Glazed or Matt, local or imported as directed by the Engineer-In-Charge, laid with 6mm thick layer of cement based high polymer modified quick set tile adhesive (water based) with a Base Price= Rs. 1600 per Sq.M. (It may be noted that reduction in the rate shall be made accordingly if the cost of purchase of tile is less than the base price).**

Details of Cost for 10 Sq.M

1. Labour						
	Mason	16.00	Hrs	@ 125.00	2000.00	
	Labourer	32.00	Hrs	@ 87.50	2800.00	
	Total				4800.00	
	Contractor's profit & overhead			20%	960.00	
	Total Labour rate				576.00	576.00
2. Material						
	Porcelain Tile glazed/matt (Prime Quality) Base Rate	10.50	Sq. m.	@ 1,600	16,800.00	
	High Polymer Modified Quickset Tile Adhesive	10.00	Kg.	@ 40	400.00	
	water charges			1.5%	258.00	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			17458.00	
	3. Sundries	5%	240.00	
	Total of 2 & 3		17698.00	
	Contractor's profit & overhead	20%	3539.60	
	Total Composite rate		21813.60	21813.60
Sq.m.	b) Extra for basement over item 14-73(a) above			
	Extra labour			
	Labourer	2.00	Hrs @ 87.50	175.00
	Contractor's profit & overhead		20%	35.00
	Total Labour rate			21.00
				21.00
Sq.m.	c) Extra for first floor over item 14-73(a) above			
	Extra labour			
	Labourer	2.50	Hrs @ 87.50	218.75
	Contractor's profit & overhead		20%	43.75
	Total Labour rate			26.25
				26.25
Sq.m.	d) Extra for every additional floor above first floor over item 14-73(a)			
	Extra labour			
	Labourer	1.75	Hrs @ 87.50	153.13
	Contractor's profit & overhead		20%	30.63
	Total Labour rate			18.38
				18.40
	Item No. 14-74			
Sq.m.	a) Providing and laying Vitrified/ Porcelain tiles (Imported but not Chinese) in dado/skirting on ground floor with different sizes, Glazed or Matt, local or imported as directed by the Engineer-In-Charge, laid with 6mm thick layer of cement based high polymer modified quick set tile adhesive (water based) with a Base Price= Rs. 1600 per Sq.M. (It may be noted that reduction in the rate shall be made accordingly if the cost of purchase of tile is less than the base price).			
	Detail of Cost for 10 Sq.m.			
	1. Labour			
	Tile layer	18.00	Hrs @ 130.00	2340.00
	Labourer	40.00	Hrs @ 87.50	3500.00
	Total			5840.00
	Contractor's profit & overhead		20%	1168.00
	Total Labour rate			700.80
				700.80
	2. Material			
	Porcelain Tile glazed/matt (Prime Quality) Base Rate	10.50	Sq. m. @ 1,600	16,800.00
	High Polymer Modified Quickset Tile Adhesive	10.00	Kg. @ 40	400.00
	Cement OPC	55.00	Kg. @ 10.50	577.50
	Pigment	0.75	Kg. @ 82.50	61.88
	Cement mortar 1 : 3	0.13	Cu.m. @ 6099.30	792.91
	water charges		1.5%	279.48
				18911.77
	3. Sundries		5%	292.00
	Total of 2 & 3			19203.77
	Contractor's profit & overhead		20%	3840.75
	Total Composite rate			3005.25
				3005.25
Sq.m.	b) Extra for basement over item 14-72(a) above			
	Extra labour			
	Labourer	2.00	Hrs @ 87.50	175.00
	Contractor's profit & overhead		20%	35.00
	Total Labour rate			21.00
				21.00
Sq.m.	c) Extra for first floor over item 14-72(a) above			
	Extra labour			
	Labourer	2.50	Hrs @ 87.50	218.75
	Contractor's profit & overhead		20%	43.75
	Total Labour rate			26.25
				26.25

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. d) Extra for every additional floor above first floor over item 14-72(a)

Extra labour						
Labourer	1.75	Hrs	@	87.50	153.13	
Contractor's profit & overhead				20%	30.63	
Total Labour rate					18.38	18.40

**Sq.m. Item No. 14-75-1
Chemical Polish including grinding for marble, Granite etc. (for
Maintainous & Repair Works**

Detail of Cost for 10 Sq.m.

1. Labour						
Floor grinder with machine	8.00	Hrs	@	130.00	1040.00	
Total					1040.00	
Contractor's profit & overhead				20%	208.00	
Total Labour rate					124.80	124.80

2. Material						
Chemical Polish	1.00	Litre	@	500	500.00	
water charges				1.5%	7.50	
water charges					507.50	
3. Sundries						
Total of 2 & 3				5%	52.00	
Contractor's profit & overhead				20%	111.90	
Total Composite rate					191.94	191.95

Item No.14-76

% Increase Add extra for respective payable item of ground floor

a) Extra for first floor **10.0%**

b) Extra for every additional floor above first floor **7.5%**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 15-1

Cement plaster using Coarse Sand on soffits of ceiling, cantilever slabs, sides and soffits of beams, in basement and ground floor including making edges, corners and curing.

Detail of cost for 10 Sq.m.

Sq.m. a) 1/2 inch (13mm) thick cement sand plaster

Mortar	107.6 x 1/2 x 1/12	4.59	Cu.ft.
Wastage	10%	0.46	Cu.ft.
		<u>5.05</u>	Cu.ft.
		0.14	Cu.m.

i) 1 : 2

1. Labour

Mason	8.00	Hrs @	125.00	1000.00
Labourer	4.00	Hrs @	87.50	350.00
Bahishti	1.00	Hrs @	87.50	87.50
				<u>1437.50</u>

Contractor's profit & overhead

20% 287.50

Total Labour rate 172.50**172.50**

2. Material

Mortar	0.14	Cu.m. @	8442.75	1181.99
Water Charges		1.5%		17.73
				<u>1199.71</u>

3. Scaffolding and Sundries

5% 131.86

Total of 2 & 3 1331.58

Contractor's profit & overhead

20% 266.32

Total 1597.89Total Composite rate per Sq. m. 332.29**332.30****ii) 1 : 3**

1. Labour

Same as in item 15 - 1(a)1				172.50
Total Labour rate				<u>172.50</u>

172.50

2. Material

Mortar	0.14	Cu.m. @	6099.30	853.90
Water Charges		1.5%		12.81
				<u>866.71</u>

3. Scaffolding and Sundries

5% 51.96

Total of 2 & 3 918.67

Contractor's profit & overhead

20% 183.73

Total 1102.41Total Composite rate per Sq. m. 282.74**282.75****iii) 1 : 4**

1. Labour

Same as in item 15 - 1(a)1				172.50
Total Labour rate				<u>172.50</u>

172.50

2. Material

Mortar	0.14	Cu.m. @	4839.30	677.50
Water Charges		1.5%		10.16
				<u>687.66</u>

3. Scaffolding and Sundries

5% 43.01

Total of 2 & 3 730.67

Contractor's profit & overhead

20% 146.13

Total 876.81Total Composite rate per Sq. m. 260.18**260.20**

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Sq.m. b)	3/8 inch (9.5 mm.) thick cement sand plaster			
	Mortar 107.6 x 3/8 x 1/12	3.35	Cu.ft.	
	Wastage 10%	0.34	Cu.ft.	
		<u>3.69</u>	Cu.ft.	
		0.10	Cu.m.	
i)	1 : 2			
	1. Labour			
	Same as in item 15 - 1(a)1			172.50
	Total Labour rate			172.50
				172.50
	2. Material			
	Mortar	0.10	Cu.m. @ 8442.75	844.28
	Water Charges		1.5%	12.66
				<u>856.94</u>
	3. Scaffolding and Sundries		5%	51.47
	Total of 2 & 3			<u>908.41</u>
	Contractor's profit & overhead		20%	181.68
	Total			<u>1090.09</u>
	Total Composite rate per Sq. m.			281.51
				281.50
ii)	1 : 3			
	1. Labour			
	Same as in item 15 - 1(a)1			172.50
	Total Labour rate			172.50
				172.50
	2. Material			
	Mortar	0.10	Cu.m. @ 6099.30	609.93
	Water Charges		1.5%	9.15
				<u>619.08</u>
	3. Scaffolding and Sundries		5%	39.58
	Total of 2 & 3			<u>658.66</u>
	Contractor's profit & overhead		20%	131.73
	Total Composite rate per Sq. m.			<u>251.54</u>
				251.55
iii)	1 : 4			
	1. Labour			
	Same as in item 15 - 1(a)1			172.50
	Total Labour rate			172.50
				172.50
	2. Material			
	Mortar	0.10	Cu.m. @ 4839.30	483.93
	Water Charges		1.5%	7.26
				<u>491.19</u>
	3. Scaffolding and Sundries		5%	33.18
	Total of 2 & 3			<u>524.37</u>
	Contractor's profit & overhead		20%	104.87
	Total Composite rate per Sq. m.			<u>235.42</u>
				235.40
Sq.m. c)	1/4 inch (6.4 mm.) thick cement sand plaster			
	Mortar 107.6 x 1/4 x 1/12	2.26	Cu.ft.	
	Wastage 10%	0.23	Cu.ft.	
		<u>2.49</u>	Cu.ft.	
		0.07	Cu.m.	
i)	1 : 2			
	1. Labour			
	Same as in item 15 - 1(a)1			172.50
	Total Labour rate			172.50
				172.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
Mortar	0.07 Cu.m. @ 8442.75		590.99	
Water Charges	1.5%		8.86	
			<u>599.86</u>	
3. Scaffolding and Sundries	5%		38.62	
Total of 2 & 3			<u>638.48</u>	
Contractor's profit & overhead	20%		127.70	
Total			<u>766.17</u>	
Total Composite rate per Sq. m.			249.12	249.10
ii) 1 : 3				
1. Labour				
Same as in item 15 - 1(a)1			172.50	
Total Labour rate			172.50	172.50
2. Material				
Mortar	0.07 Cu.m. @ 6099.30		426.95	
Water Charges	1.5%		6.40	
			<u>433.36</u>	
3. Scaffolding and Sundries	5%		30.29	
Total of 2 & 3			<u>463.65</u>	
Contractor's profit & overhead	20%		92.73	
Total			<u>556.38</u>	
Total Composite rate per Sq. m.			228.14	228.15
iii) 1 : 4				
1. Labour				
Same as in item 15 - 1(a)1			172.50	
Total Labour rate			172.50	172.50
2. Material				
Mortar	0.07 Cu.m. @ 4839.30		338.75	
Water Charges	1.5%		5.08	
			<u>343.83</u>	
3. Scaffolding and Sundries	5%		25.82	
Total of 2 & 3			<u>369.65</u>	
Contractor's profit & overhead	20%		73.93	
Total			<u>443.58</u>	
Total Composite rate per Sq. m.			216.86	216.85
Item No. 15-2				
Sq.m.	3/8 inch (9.5mm) thick cement plaster using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing.			
Detail of cost for 10 Sq.m.				
Mortar	107.6 x 3/8 x 1/12	3.36	Cu.ft.	
Wastage	10%	0.34	Cu.ft.	
		<u>3.70</u>	Cu.ft.	
		0.10	Cu.m.	
a) 1 : 2				
1. Labour				
Mason	6.50 Hrs @ 125.00		812.50	
Labourer	4.00 Hrs @ 87.50		350.00	
Bahishti	0.50 Hrs @ 87.50		43.75	
			<u>1206.25</u>	
Contractor's profit & overhead	20%		241.25	
Total Labour rate			<u>144.75</u>	144.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Material			
	Mortar	0.10	Cu.m. @ 8442.75	844.28
	Water Charges		1.5%	12.66
				<u>856.94</u>
	3. Scaffolding and Sundries		5%	103.16
	Total of 2 & 3			<u>960.10</u>
	Contractor's profit & overhead		20%	192.02
	Total			<u>1152.12</u>
	Total Composite rate per Sq. m.			259.96
				259.95
b)	1 : 3			
	1. Labour			
	Same as in item 15 - 2 above			1206.25
	Contractor's profit & overhead		20%	241.25
	Total Labour rate			<u>144.75</u>
				144.75
	2. Material			
	Mortar	0.10	Cu.m. @ 6099.30	609.93
	Water Charges		1.5%	9.15
				<u>619.08</u>
	3. Scaffolding and Sundries		5%	91.27
	Total of 2 & 3			<u>710.35</u>
	Contractor's profit & overhead		20%	142.07
	Total			<u>852.41</u>
	Total Composite rate per Sq. m.			229.99
				230.00
c)	1 : 4			
	1. Labour			
	Same as in item 15 - 2 above			1206.25
	Contractor's profit & overhead		20%	241.25
	Total Labour rate			<u>144.75</u>
				144.75
	2. Material			
	Mortar	0.10	Cu.m. @ 4839.30	483.93
	Water Charges		1.5%	7.26
				<u>491.19</u>
	3. Scaffolding and Sundries		5%	84.87
	Total of 2 & 3			<u>576.06</u>
	Contractor's profit & overhead		20%	115.21
	Total			<u>691.27</u>
	Total Composite rate per Sq. m.			213.88
				213.90
d)	1 : 5			
	1. Labour			
	Same as in item 15 - 2 above			1206.25
	Contractor's profit & overhead		20%	241.25
	Total Labour rate			<u>144.75</u>
				144.75
	2. Material			
	Mortar	0.10	Cu.m. @ 4104.30	410.43
	Water Charges		1.5%	6.16
				<u>416.59</u>
	3. Scaffolding and Sundries		5%	81.14
	Total of 2 & 3			<u>497.73</u>
	Contractor's profit & overhead		20%	99.55
	Total			<u>597.27</u>
	Total Composite rate per Sq. m.			204.48
				204.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
e) 1 : 6				
1. Labour				
Same as in item 15 - 2 above				1206.25
Contractor's profit & overhead		20%		241.25
Total Labour rate				<u>144.75</u>
144.75				
2. Material				
Mortar		0.10	Cu.m. @ 3579.30	374.74
Water Charges			1.5%	5.62
				<u>380.36</u>
3. Scaffolding and Sundries			5%	79.33
Total of 2 & 3				<u>459.69</u>
Contractor's profit & overhead		20%		91.94
Total Composite rate per Sq. m.				<u>199.91</u>
199.90				
Item No. 15-3				
Sq.m.	1/2 inch (13mm) thick cement plaster using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing.			
Detail of cost for 10 Sq.m.				
Mortar		107.6 x 1/2 x 1/12	4.59	Cu.ft.
Wastage		10%	0.46	Cu.ft.
			<u>5.05</u>	Cu.ft.
			0.14	Cu.m.
a) 1 : 2				
1. Labour				
Mason		6.50	Hrs @ 125.00	812.50
Labourer		4.50	Hrs @ 87.50	393.75
Bahishti		0.75	Hrs @ 87.50	65.63
				<u>1271.88</u>
Contractor's profit & overhead		20%		254.38
Total Labour rate				<u>152.63</u>
152.65				
2. Material				
Mortar		0.14	Cu.m. @ 8442.75	1181.99
Water Charges			1.5%	17.73
				<u>1199.71</u>
3. Scaffolding and Sundries			5%	123.58
Total of 2 & 3				<u>1323.29</u>
Contractor's profit & overhead		20%		264.66
Total Composite rate per Sq. m.				<u>311.42</u>
311.40				
b) 1 : 3				
1. Labour				
Same as in item 15 - 3 above				1271.88
Contractor's profit & overhead		20%		254.38
Total Labour rate				<u>152.63</u>
152.65				
2. Material				
Mortar		0.14	Cu.m. @ 6099.30	853.90
Water Charges			1.5%	12.81
				<u>866.71</u>
3. Scaffolding and Sundries			5%	106.93
Total of 2 & 3				<u>973.64</u>
Contractor's profit & overhead		20%		194.73
Total Composite rate per Sq. m.				<u>269.46</u>
269.45				
c) 1 : 4				
1. Labour				
Same as in item 15 - 3 above				1271.88
Contractor's profit & overhead		20%		254.38

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		152.63	152.65
	2. Material			
	Mortar	0.14	Cu.m. @ 4839.30	677.50
	Water Charges		1.5%	10.16
				<u>687.66</u>
	3. Scaffolding and Sundries		5%	97.98
	Total of 2 & 3			<u>785.64</u>
	Contractor's profit & overhead		20%	157.13
	Total			<u>942.77</u>
	Total Composite rate per Sq. m.		246.90	246.90
	d) 1 : 5			
	1. Labour			
	Same as in item 15 - 3 above			1271.88
	Contractor's profit & overhead		20%	254.38
	Total Labour rate			<u>152.63</u>
				152.65
	2. Material			
	Mortar	0.14	Cu.m. @ 4104.30	574.60
	Water Charges		1.5%	8.62
				<u>583.22</u>
	3. Scaffolding and Sundries		5%	92.75
	Total of 2 & 3			<u>675.98</u>
	Contractor's profit & overhead		20%	135.20
	Total			<u>811.17</u>
	Total Composite rate per Sq. m.		233.74	233.75
	e) 1 : 6			
	1. Labour			
	Same as in item 15 - 3 above			1271.88
	Contractor's profit & overhead		20%	254.38
	Total Labour rate			<u>152.63</u>
				152.65
	2. Material			
	Mortar	0.14	Cu.m. @ 3579.30	501.10
	Water Charges		1.5%	7.52
				<u>508.62</u>
	3. Scaffolding and Sundries		5%	63.59
	Total of 2 & 3			<u>572.21</u>
	Contractor's profit & overhead		20%	114.44
	Total			<u>686.65</u>
	Total Composite rate per Sq. m.		221.29	221.30
	Item No.15-4			
Sq.m.	3/4 inch (19mm) thick cement plaster using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing.			
	Detail of cost for 10 Sq.m.			
	Mortar	107.6 x 3/4 x 1/12	6.71	Cu.ft.
	Wastage	10%	0.67	Cu.ft.
			<u>7.38</u>	Cu.ft.
			0.21	Cu.m.
	a) 1 : 2			
	1. Labour			
	Mason	6.50	Hrs @ 125.00	812.50
	Labourer	4.75	Hrs @ 87.50	415.63
	Bahishti	1.00	Hrs @ 87.50	87.50
				<u>1315.63</u>
	Contractor's profit & overhead		20%	263.13
	Total Labour rate			<u>157.88</u>
				157.90

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Material			
	Mortar	0.21	Cu.m. @ 8442.75	1764.13
	Water Charges		1.5%	26.46
				<u>1790.59</u>
	3. Scaffolding and Sundries		5%	155.31
	Total of 2 & 3			<u>1945.90</u>
	Contractor's profit & overhead		20%	389.18
	Total			<u>2335.08</u>
	Total Composite rate per Sq. m.			391.38
				391.40
b)	1 : 3			
	1. Labour			
	Same as in item 15 - 4 above			1315.63
	Contractor's profit & overhead		20%	263.13
	Total Labour rate			<u>157.88</u>
				157.90
	2. Material			
	Mortar	0.21	Cu.m. @ 6099.30	1274.46
	Water Charges		1.5%	19.12
				<u>1293.58</u>
	3. Scaffolding and Sundries		5%	130.46
	Total of 2 & 3			<u>1424.04</u>
	Contractor's profit & overhead		20%	284.81
	Total Composite rate per Sq. m.			<u>328.76</u>
				328.75
c)	1 : 4			
	1. Labour			
	Same as in item 15 - 4 above			1315.63
	Contractor's profit & overhead		20%	263.13
	Total Labour rate			<u>157.88</u>
				157.90
	2. Material			
	Mortar	0.21	Cu.m. @ 4839.30	1011.18
	Water Charges		1.5%	15.17
				<u>1026.35</u>
	3. Scaffolding and Sundries		5%	117.10
	Total of 2 & 3			<u>1143.45</u>
	Contractor's profit & overhead		20%	228.69
	Total Composite rate per Sq. m.			<u>295.09</u>
				295.10
d)	1 : 5			
	1. Labour			
	Same as in item 15 - 4 above			1315.63
	Contractor's profit & overhead		20%	263.13
	Total Labour rate			<u>157.88</u>
				157.90
	2. Material			
	Mortar	0.21	Cu.m. @ 4104.30	857.60
	Water Charges		1.5%	12.86
				<u>870.46</u>
	3. Scaffolding and Sundries		5%	109.30
	Total of 2 & 3			<u>979.77</u>
	Contractor's profit & overhead		20%	195.95
	Total Composite rate per Sq. m.			<u>275.45</u>
				275.45
e)	1 : 6			
	1. Labour			
	Same as in item 15 - 4 above			1315.63
	Contractor's profit & overhead		20%	263.13

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate	157.88	157.90
	2. Material		
	Mortar	0.21 Cu.m. @ 3579.30	747.90
	Water Charges	1.5%	11.22
			<u>759.12</u>
	3. Scaffolding and Sundries	5%	103.74
	Total of 2 & 3		<u>862.86</u>
	Contractor's profit & overhead	20%	172.57
	Total Composite rate per Sq. m.		<u>261.42</u>
			261.40

Item No. 15-5-1

Sq.m. Pebble dash plaster upto 10 m height above ground level with a mixture of washed pebble or crushed stone 6 mm to 12.5 mm nominal size, dashed over and including fresh plaster in two layers under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely ground hydrated lime by volume of cement.

Detail of cost for 10 Sq.m.

Under layer 12 mm thick cement plaster with cement mortar 1:4 (1 cement : 4 coarse sand) 107.6 x (12/25.4)/12 4.24 Cu.ft. 4.24

Wastage 10% 0.42 Cu.ft.
4.66 Cu.ft.

Top layer 10 mm thick cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) 107.6 x (10/25.4)/12 3.53 Cu.ft. 3.53

Wastage 10% 0.35 Cu.ft.
3.88 Cu.ft.

1. Labour

Mason 8.00 Hrs @ 125.00 1000.00
Labourer 16.00 Hrs @ 87.50 1400.00

Contractor's profit & overhead 20% 480.00
Total Labour rate 288.00

288.00**2. Material**

Mortar (1:3) 0.11 Cu.m. @ 6099.30 670.77
Mortar (1:4) 0.13 Cu.m. @ 4839.30 638.64
Crushed stone 2.36 mm to 12.5 mm size 0.10 Cu.m. @ 1,059 105.93
Dry hydrated lime (factory made) 9.00 Kg. @ 10 90.00
Water Charges 1.5% 10.06

3. Scaffolding and Sundries 5% 195.77
Total of 2 & 3 1711.17

Contractor's profit & overhead 20% 342.23
Total Composite rate per Sq. m. 493.34

493.35**Item No. 15-6-1**

Sq.m. Extra for plaster of any description for every additional 5 ft.(1.5m.) height or part thereof beyond 15 ft. (4.5 m.)

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Detail of cost for 10 Sq.m.

1. Labour					
Labourer	1.75	Hrs @	87.50	153.13	
				<u>153.13</u>	
Contractor's profit & overhead			20%	30.63	
Total Labour rate				<u>18.38</u>	18.40
2. Scaffolding and Sundries				24%	36.75
Contractor's profit & overhead				20%	7.35
Total Composite rate per Sq. m.				<u>22.79</u>	22.80

Item No. 15-7-1

Sq.m. Providing ornamental moulding of approved design at the junction of slabs and walls in cement sand mortar 1 : 3 using Coarse Sand with 1.125 inch (28.5mm) average thickness consisting of 1 inch (25mm) undercoat and 0.125 inch (3mm) thick finishing layer including curing in any floor

Detail of cost for 10 Sq.m.

Taking an ornamental moulding of 107.60 R.ft. & 12 inch width
Area = 107.6 Sq.ft.

1. Labour					
For under coat:					
Plasterer	20.00	Hrs @	110.00	2200.00	
Labourer	10.00	Hrs @	87.50	875.00	
For finishing layer:					
Plasterer	28.00	Hrs @	110.00	3080.00	
Labourer	10.00	Hrs @	87.50	875.00	
Bahishti	2.00	Hrs @	87.50	175.00	
				<u>7205.00</u>	
Contractor's profit & overhead				20%	1441.00
Total Labour rate				<u>864.60</u>	864.60
2. Material					
For under coat 1 inch.(25 mm) thick					
= 107.6 x 1/12	8.967	Cu.ft.			
Wastage 10%	0.897	Cu.ft.			
	<u>9.863</u>	Cu.ft.			
=	0.279	Cu.m.			
For Finishing Layer: = 107.6 x 1/8 x 1/12	1.12	Cu.ft.			
Wastage 10%	0.11	Cu.ft.			
	<u>1.23</u>	Cu.ft.			
=	0.035	Cu.m.			
Total	0.314	Cu.m. @	6099.30	1916.72	
3. Cost of Mould					
Deodar wood planks including 50% wastage for one mould	0.20	Cu.ft. @	5000.00	1000.00	
Nails and handles				5%	145.84
				<u>1145.84</u>	
Labour for making mould					
Carpenter	8.00	Hrs @	125.00	1000.00	
				<u>2145.84</u>	
This mould can be used for 10 times					
Rate per use	2145.84	/ 10		214.58	
4. Scaffolding and Sundries				5%	360.25
Total of 2, 3, & 4				<u>2491.55</u>	
Contractor's profit & overhead				20%	498.31
Total Composite rate per Sq. m.				<u>1163.59</u>	1163.60

Item No. 15-8-1

Sq.m. Providing and applying 3/4" (19mm) thick rough cast cement rendering comprising 3/8"

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

(9.5mm) topping of 1 : 2 (one part cement & two part crushed aggregate 3/8" and down gauge) and base of 3/8" (9.5mm) thick rough plaster 1:4 in plinth and ground floor including finishing

Detail of Cost for 10 Sq.m.

1. Labour

For base:

Plasterer 4.50 Hrs @ 110.00 495.00

Labourer 5.00 Hrs @ 87.50 437.50

For topping:

Plasterer 3.00 Hrs @ 110.00 330.00

Labourer 5.00 Hrs @ 87.50 437.50

Bahishti 2.00 Hrs @ 87.50 175.00

1875.00

Contractor's profit & overhead 20% 375.00

Total Labour rate 225.00

225.00

2. Material

Cement mortar 107.6 x 3/8 x 1/12 3.363 Cu.ft.

Wastage 10% 0.336 Cu.ft.

3.699 Cu.ft. = 0.105 Cu.m.

Cement Mortar (1 : 2) 0.105 Cu.m. @ 8442.75 884.38

Cement Mortar (1 : 4) 0.105 Cu.m. @ 4839.30 506.92

Water Charges 1.5% 20.87

1412.17

3. Scaffolding and Sundries 5% 93.75

Total of 2 & 3 1505.92

Contractor's profit & overhead 20% 301.18

Total Composite rate per Sq. m. 405.71

405.70

Item No. 15-9-1

Sq.m. Providing and applying 3/4" (19 mm) thick ornamental plaster with 1:3 cement sand mortar using Coarse Sand on walls, columns and slabs finished smooth in basement, plinth and first floor including curing

Detail of cost for 10 Sq.m.

1. Labour

Plasterer 30.00 Hrs @ 110.00 3300.00

Labourer 10.00 Hrs @ 87.50 875.00

Bahishti 4.00 Hrs @ 87.50 350.00

4525.00

Contractor's profit & overhead 20% 905.00

Total Labour rate 543.00

543.00

2. Material

Mortar (107.6x3/4x1/12) 6.725 Cu.ft.

Wastage 25% 1.681 Cu.ft.

8.406 Cu.ft.

0.238 Cu.m.

Cement Mortar (1 : 3) 0.238 Cu.m. @ 6099.30 1452.06

Water Charges 1.5% 21.78

1473.84

3. Scaffolding and Sundries 5% 73.69

Total of 2 & 3 1547.53

Contractor's profit & overhead 20% 309.51

Total Composite rate per Sq. m. 728.70

728.70

Item No. 15-10-1

R.M. Making drip course 1/2"x 3/8" (13mm x 9.5mm) size under R.C.C. or cement concrete coping and sun shades in all floors including cost of cement sand mortar 1:3 using

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Coarse Sand and curing**Detail of Cost for 30 R.M.**

1. Labour

Plasterer	4.50	Hrs @	110.00	495.00
Labourer	3.00	Hrs @	87.50	262.50
Bahishti	0.50	Hrs @	87.50	43.75
				<u>801.25</u>
Contractor's profit & overhead			20%	160.25
Total Labour rate				<u>32.05</u>

32.05

2. Material

Considering drip course 3/8" wide and 1/2" thick.

30 x 3.28 x 1/2 x 3/8 x 1/144	0.130	Cu.ft.		
Wastage 50%	0.065	Cu.ft.		
	<u>0.195</u>	Cu.ft. =	0.006	Cu.m.
Mortar (1 : 3)	0.006	Cu.m. @	6099.30	33.64
Water Charges			1.5%	0.50
				<u>34.14</u>
3. Scaffolding and Sundries			5%	40.06
Total of 2 & 3				<u>875.46</u>
Contractor's profit & overhead			20%	175.09
Total				<u>1050.55</u>
Total Composite rate per R.M.	1050.55	/ 30		67.07

67.05**Item No. 15-11-1**

R.M. Making 1/2" (13mm) thick 1-1/2" to 2-1/2" (38mm to 64mm) wide plaster band with 1:3 cement sand mortar using Coarse Sand in all floors including curing.

Detail of cost for 30 R.M.

1. Labour

Plasterer	5.75	Hrs @	110.00	632.50
Labourer	4.00	Hrs @	87.50	350.00
Bahishti	0.50	Hrs @	87.50	43.75
				<u>1026.25</u>
Contractor's profit & overhead			20%	205.25
Total Labour rate				<u>41.05</u>

41.05

2. Material

Considering 2" wide and 1/2" thick 1 : 3 band

30 x 3.28 x 1/2 x 2 x 1/144	0.683	Cu.ft.		
Wastage 25%	0.171	Cu.ft.		
	<u>0.854</u>	Cu.ft.		
	0.024	Cu.m.		
Mortar (1 : 3)	0.024	Cu.m. @	6099.30	147.55
Water Charges			1.5%	2.21
				<u>149.76</u>
3. Scaffolding and Sundries			5%	58.80
Total of 2 & 3				<u>1234.81</u>
Contractor's profit & overhead			20%	246.96
Total				<u>1481.77</u>
Total Composite rate per R.M.	1481.77	/ 30		90.44

90.45

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 15-12-1

R.M. Making 1/2" (13mm) thick plaster band upto 4" (100mm) wide with 1:3 cement sand mortar using Coarse Sand in all floors including curing.

Detail of cost for 30 R.M.

1. Labour

Plasterer	7.00	Hrs	@	110.00	770.00
Labourer	5.00	Hrs	@	87.50	437.50
Bahishti	0.50	Hrs	@	87.50	43.75
					<u>1251.25</u>

Contractor's profit & overhead				20%	250.25
Total Labour rate					<u>50.05</u>

50.05

2. Material

Considering 4" wide and 1/2" thick 1 : 3 band

30 x 3.28 x 1/2 x 4 x 1/144

Wastage 25%	1.367	Cu.ft.			
	0.342	Cu.ft.			
	<u>1.708</u>	Cu.ft.			

Mortar (1 : 3)	0.048	Cu.m.	@	6099.30	295.09
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Water Charges				1.5%	4.43
					<u>299.52</u>

3. Scaffolding and Sundries				5%	77.54
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Total of 2 & 3					<u>377.05</u>
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Contractor's profit & overhead				20%	75.41
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Total					<u>452.47</u>
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Total Composite rate per R.M.	452.47	/ 30			65.13
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65.15**Item No. 15-13-1**

R.M. Making 1/2" (13mm) thick 6" to 9" (150mm to 225mm) wide plaster band with 1:3 cement sand mortar using Coarse Sand in all floors including curing.

Detail of cost for 30 R.M.

1. Labour

Plasterer	8.00	Hrs	@	110.00	880.00
Labourer	7.00	Hrs	@	87.50	612.50
Bahishti	0.50	Hrs	@	87.50	43.75
					<u>1536.25</u>

Contractor's profit & overhead				20%	307.25
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Total Labour rate					<u>61.45</u>
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61.45

2. Material

Considering 7-1/2" wide and 1/2" thick 1 : 3 band

30 x 3.28 x 1/2 x 7.5 x 1/144

Wastage 25%	2.563	Cu.ft.			
	0.641	Cu.ft.			
	<u>3.203</u>	Cu.ft.			

Mortar (1 : 3)	0.091	Cu.m.	@	6099.30	553.29
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Water Charges				1.5%	8.30
					<u>561.59</u>

3. Scaffolding and Sundries				5%	104.89
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Total of 2 & 3					<u>666.49</u>
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Contractor's profit & overhead				20%	133.30
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Total					<u>799.78</u>
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Total Composite rate per R.M.	799.78	/ 30			88.11
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88.10**Item No. 15-14-1**

Kg Providing and mixing water proofing agent in cement mortar of any description in any floor

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Same rate as in item 5-34a is applicable	92.40	92.40
	Item No. 15-15-1		
Kg	Providing and mixing retarding or wetting agent in cement sand mortar of any description in any floor		
	Same rate as in item 5-33a is applicable	261.35	261.35
	Item No. 15-16-1		
Sq.m.	Extra if false pointing is required with lime/surkhi or pigment on plastered surface of any description in any floor.		
	Detail of cost for 10 Sq.m.		
	1. Labour		
	Mason	4.00 Hrs @ 125.00	500.00
	Labourer	4.00 Hrs @ 87.50	350.00
			<u>850.00</u>
	Contractor's profit & overhead	20%	170.00
	Total Labour rate		<u>102.00</u>
			102.00
	2. Material		
	Lime surkhi (1:2)	0.069 Cu.m. @ 175.00	12.08
	Pigment	0.50 Kg. @ 82.50	41.25
			<u>53.33</u>
	Average		26.66
	3. Scaffolding and Sundries	5%	43.83
	Total of 2 & 3		<u>97.16</u>
	Contractor's profit & overhead	20%	19.43
	Total		<u>116.59</u>
	Total Composite rate per Sq.m.		113.66
			113.65
	Item No. 15-17-1		
Sq.m.	Extra if ruled pointing is required to give stone appearance on plastered surface of any description in any floor		
	Detail of Cost for 10 Sq.m.		
	Extra Labour		
	Mason	4.00 Hrs @ 125.00	500.00
	Labourer	4.00 Hrs @ 87.50	350.00
			<u>850.00</u>
	Contractor's profit & overhead	20%	170.00
	Total Labour rate		<u>102.00</u>
			102.00
	2. Scaffolding and Sundries	5%	42.50
	Contractor's profit & overhead	20%	8.50
	Total		<u>51.00</u>
	Total Composite rate per Sq.m.		107.10
			107.10
	Item No. 15-18-1		
Sq.m.	Extra if deep cut grooves of approved size and design are made on plastered surface of any description in any floor		
	Detail of Cost for 10 Sq.m.		
	Extra Labour		
	Mason	6.00 Hrs @ 125.00	750.00
	Labourer	6.00 Hrs @ 87.50	525.00
			<u>1275.00</u>
	Contractor's profit & overhead	20%	255.00
	Total Labour rate		<u>153.00</u>
			153.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Scaffolding and Sundries	5%	63.75	
Contractor's profit & overhead	20%	12.75	
Total		7.65	
Total Composite rate per Sq.m.		160.65	160.65

Item No. 15-19-1**Kg. Extra for using washing soda in cement mortar of any description.**

Washing soda	1.00	Kg	@	90.00	90.00	
Mixing Charges				8%	7.20	
					97.20	
Contractor's profit & overhead				20%	19.44	
Total Composite rate					116.64	116.65

Item No. 15-20-1**Kg. Providing and mixing pigment in cement mortar of any description in any floor.**

Pigment	1.00	Kg.	@	82.50	82.50	
Mixing Charges				6%	4.95	
					87.45	
Contractor's profit & overhead				20%	17.49	
Total Composite rate					104.94	104.95

Item No. 15-21**Extra for plaster of any description for overhead tank.****Detail of Cost for 10 Sq.m.****Sq.m. a) Upto 6 m. height.**

1. Extra Labour for Lift.						
Plasterer	3.00	Hrs	@	110.00	330.00	
Labourer	3.00	Hrs	@	87.50	262.50	
Bahishti	4.00	Hrs	@	87.50	350.00	
					942.50	
Contractor's profit & overhead				20%	188.50	
Total Labour rate					113.10	113.10
2. Scaffolding and Sundries						
				5%	47.13	
Contractor's profit & overhead				20%	9.43	
Total					5.66	
Total Composite rate per Sq.m.					113.67	113.65

Sq.m. b) Extra for every additional 5 ft.(1.5 m) height or part thereof

1. Labour						
Plasterer	2.75	Hrs	@	110.00	302.50	
Labourer	2.75	Hrs	@	87.50	240.63	
Bahishti	3.75	Hrs	@	87.50	328.13	
					871.25	
Contractor's profit & overhead				20%	174.25	
Total Labour rate					104.55	104.55
2. Scaffolding and Sundries						
				15%	130.69	
Contractor's profit & overhead				20%	26.14	
Total Composite rate per Sq.m.					120.23	120.25

Item No. 15-22**Providing and fixing expanded metal or wire net lathing with 3/4" (19mm) cement plaster 1:4 using Coarse Sand in three layers including curing in any floor.**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Detail of cost for 10 Sq.m.**Sq.m. a) With expanded metal 3/4" x 2-1/2" - 12 gauge (19mmx64mmx2.17mm)**

1. Labour

i) For railing, cutting, bending binding and fixing the expanded metal

Black smith	12.00	Hrs @	112.00	1344.00
Carpenter	4.00	Hrs @	125.00	500.00
Bellow boy	12.00	Hrs @	87.50	1050.00
Labourer	4.00	Hrs @	87.50	350.00
				<u>3244.00</u>

ii) For backing and plastering, base coat

Plasterer	12.00	Hrs @	110.00	1320.00
Labourer	6.00	Hrs @	87.50	525.00
Bahishti	1.00	Hrs @	87.50	87.50
				<u>1932.50</u>

iii) For finish coat 1/4" (6.5 mm) thick

Plasterer	4.00	Hrs @	110.00	440.00
Labourer	4.50	Hrs @	87.50	393.75
Bahishti	1.00	Hrs @	87.50	87.50
				<u>921.25</u>

Total (i, ii & iii)

Contractor's profit & overhead 20% 6097.75

Total Labour rate 1219.55**731.75**

2. Material

Mortar	107.6 x 3/4 x 1/12	6.725	Cu.ft.		
Wastage	10%	0.673	Cu.ft.		
		<u>7.398</u>	Cu.ft. =	0.210	Cu.m.
Expanded metal		10.00	Sq.m.		
Wastage	5%	0.50	Sq.m.		
		<u>10.50</u>	Sq.m.		
Mortar (1 : 4)		0.21	Cu.m. @	4839.3	1013.84
Expanded metal		10.50	Sq.m. @	630.0	6615.00
Mild steel bars(G-40)		21.00	Kg. @	88.0	1848.00
Nail of all sizes		1.00	Kg. @	90.0	90.00
G.I. wire gauge		0.25	Sq.ft. @	130.0	32.50
Water Charges			1.5%		91.47
					<u>9690.81</u>

3. Scaffolding and Sundries

5% 484.54

Total of 2 & 3 10175.35

Contractor's profit & overhead 20% 2035.07

Total 12210.42Total Composite rate per Sq.m. 1952.77**1952.75****Sq.m. b) With wire netting 1-1/2" (38mm) mesh - 18 gauge (1.4mm) thick**

1. Labour

i) For railing, cutting, bending binding and fixing the expanded metal

Black smith	4.00	Hrs @	112.00	448.00
Carpenter	4.00	Hrs @	125.00	500.00
Labourer	4.00	Hrs @	87.50	350.00
				<u>1298.00</u>

ii) For backing and plastering base coat

Same as in item 15-22(a) above 1932.50

iii) For finish coat

Same as in item 15-22(a) above 921.25

Total (i, ii & iii) 4151.75

Contractor's profit & overhead 20% 830.35

Total Labour rate 498.21**498.20**

2. Material

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Mortar (1 : 4)	0.21 Cu.m. @ 4839.30	1013.84
	Wire net	10.50 Sq.m. @ 330.00	3465.00
	Mild steel bars(G-40)	21.00 Kg. @ 88.00	1848.00
	Nail of all sizes	1.00 Kg. @ 90.00	90.00
	G.I. wire gauge	0.25 Sq.ft. @ 130.00	32.50
	Water Charges	1.5%	62.28
			<u>6511.62</u>
	3. Scaffolding and Sundries	5%	325.58
	Total of 1, 2 & 3		<u>10988.95</u>
	Contractor's profit & overhead	20%	2197.79
	Total		<u>13186.74</u>
	Total Composite rate per Sq.m.		1318.67
			1318.65

Item No. 15-23-1

Sq.m. Providing and applying 1/2" (13mm) thick 1 : 3 cement sand mortar under coat with mortar of plaster of paris or gypsum plaster in basement and ground floor including curing

Detail of Cost for 10 Sq.m.

1. Labour

Same as in item 15 - 3 above

Contractor's profit & overhead 20% 254.38

Total Labour rate 152.63

152.65

2. Material

Mortar 0.14 Cu.m. @ 6099.30 853.90

Water Charges 1.5% 12.81

866.71

3. Scaffolding and Sundries 5% 63.59

Total of 2 & 3 930.30

Contractor's profit & overhead 20% 186.06

Total 1116.37

Total Composite rate per Sq. m. 264.26

264.25**Item No. 15-24**

Providing and fixing gypsum board with wire nails to wooden frame to receive gypsum plaster finishing coat in basement and ground floor but excluding the cost of wooden frame.

Detail of Cost for 10 Sq.m.

Sq.m. a) 1/4" (6.4 mm) thick gypsum board

1. Labour

Carpenter 16.00 Hrs @ 125.00 2000.00

Contractor's profit & overhead 20% 400.00

Total Labour rate 240.00

240.00

2. Material

Gypsum board 1/4" thick 10.50 Sq.m. @ 190.00 1995.00

Nail of all sizes 0.50 Kg. @ 90.00 45.00

2040.00

3. Sundries 5% 100.00

Total of 1,2, & 3 4140.00

Contractor's profit & overhead 20% 828.00

Total 4968.00

Total Composite rate per Sq. m. 496.80

496.80

Sq.m. b) 3/8" (9.5 mm) thick gypsum board

1. Labour

Carpenter 16.00 Hrs @ 125.00 2000.00

Contractor's profit & overhead 20% 400.00

Total Labour rate 240.00

240.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Material			
Gypsum board 3/8" thick	10.50	Sq.m. @	230.00
Nail of all sizes	0.50	Kg. @	90.00
			2415.00
			45.00
			2460.00
3. Sundries			
			5%
			100.00
Total of 1,2, & 3			4560.00
Contractor's profit & overhead			20%
			912.00
Total			5472.00
Total Composite rate per Sq. m.			547.20

547.20

Sq.m. c) 1/2" (13 mm) thick gypsum board

1. Labour			
Carpenter	16.00	Hrs @	125.00
Contractor's profit & overhead			20%
			400.00
Total Labour rate			240.00
2. Material			
Gypsum board 1/2" thick	10.50	Sq.m. @	270.00
Nail of all sizes	0.50	Kg. @	90.00
			2835.00
			45.00
			2880.00
3. Sundries			
			5%
			100.00
Total of 1,2, & 3			4980.00
Contractor's profit & overhead			20%
			996.00
Total			5976.00
Total Composite rate per Sq. m.			597.60

597.60

Item No. 15-25-1

Sq.m. Providing and fixing insulating fibre board 1/2" (13 mm) thick with wire nails to wooden frame to receive gypsum plaster finishing coat in basement and ground floor but excluding the cost of wooden frame

Detail of Cost for 10 Sq.m.

1. Labour			
Carpenter	16.00	Hrs @	125.00
Contractor's profit & overhead			20%
			400.00
Total Labour rate			240.00

240.00

2. Material			
Fibre board 1/2" thick	10.50	Sq.m. @	3675.00
Nail of all sizes	0.50	Kg. @	90.00
			38587.50
			45.00
			38632.50
3. Sundries			
			5%
			100.00
Total of 1,2, & 3			40732.50
Contractor's profit & overhead			20%
			8146.50
Total			48879.00
Total Composite rate per Sq. m.			4887.90

4887.90

Item No. 15-26

Providing and applying 1/4" (6.4mm) thick gypsum plaster over a prepared base coat in basement and ground floor but excluding the cost of base coat.

Detail of Cost for 10 Sq.m.

Sq.m. a) 1 : 4 (1 gypsum & 4 lime)

1. Labour			
Plasterer	4.00	Hrs @	110.00
Labourer	4.50	Hrs @	87.50
Bahishti	1.00	Hrs @	87.50
			440.00
			393.75
			87.50
			921.25

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	184.25	
	Total Labour rate		110.55	110.55
	2. Material			
	Mortar	107.6 x 1/4 x 1/12	2.242 Cu.ft.	
	Shrinkage	20%	0.448 Cu.ft.	
			<u>2.690</u> Cu.ft. = 0.076 Cu.m.	
	Lime Putty	0.084 x 4/5 x 640	43.01 Kg. @ 7.70	331.16
	Gypsum powder	0.084 x 1/5 x 640	10.75 Kg. @ 20.00	215.04
	Water Charges		1.5%	8.19
				<u>554.39</u>
	3. Scaffolding and sundries		5%	27.72
	Total of 1,2, & 3			1503.36
	Contractor's profit & overhead	20%	300.67	
	Total		<u>1804.03</u>	
	Total Composite rate per Sq. m.		180.40	180.40
Sq.m. b)	1 : 3 (1 gypsum & 3 lime)			
	1. Labour			
	Same as in item (a) above			921.25
	Contractor's profit & overhead	20%	184.25	
	Total Labour rate		<u>110.55</u>	110.55
	2. Material			
	Mortar		0.076 Cu.m.	
	Lime Putty	0.084 x 3/4 x 640	40.32 Kg. @ 7.70	310.46
	Gypsum powder	0.084 x 1/4 x 640	13.44 Kg. @ 20.00	268.80
	Water Charges		1.5%	8.69
				<u>587.95</u>
	3. Scaffolding and sundries		5%	29.40
	Total of 1,2, & 3			1538.60
	Contractor's profit & overhead	20%	307.72	
	Total		<u>1846.32</u>	
	Total Composite rate per Sq. m.		184.63	184.65
	Item No. 15-27			
	Providing and applying cement plaster 1:2 using Coarse Sand with curing			
	Detail of cost for 10 Sq.m.			
Sq.m. a)	1/4" (6.4 mm) thick			
	1. Labour			
	Plasterer	6.00	Hrs @ 110.00	660.00
	Labourer	3.50	Hrs @ 87.50	306.25
	Bahishti	0.50	Hrs @ 87.50	43.75
				<u>1010.00</u>
	Contractor's profit & overhead	20%	202.00	
	Total Labour rate		<u>121.20</u>	121.20
	2. Material			
	Mortar	107.6 x 1/4 x 1/12	2.242 Cu.ft.	
	Wastage	10%	0.224 Cu.ft.	
			<u>2.466</u> Cu.ft. = 0.070 Cu.m.	
	Mortar (1 : 2)		0.070 Cu.m. @ 8442.75	589.59
	Water Charges		1.5%	8.84
				<u>598.43</u>
	3. Scaffolding and sundries		5%	29.92
	Total of 1,2, & 3			1638.36
	Contractor's profit & overhead	20%	327.67	
	Total		<u>1966.03</u>	
	Total Composite rate per Sq. m.		196.60	196.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. b) 1/2" (13 mm) thick

1. Labour								
Same as in item (a) above								1101.00
Contractor's profit & overhead				20%				202.00
Total Labour rate								<u>121.20</u>
								121.20
2. Material								
Mortar	107.6 x 1/2 x 1/12	4.483	Cu.ft.					
Wastage	10%	0.448	Cu.ft.					
		<u>4.932</u>	Cu.ft.	=	0.140	Cu.m.		
Mortar (1 : 2)		0.140	Cu.m.	@	8442.75			1179.18
Water Charges					1.5%			17.69
								<u>1196.87</u>
3. Scaffolding and sundries					5%			59.84
Total of 1,2, & 3								<u>2266.71</u>
Contractor's profit & overhead					20%			453.34
Total								<u>2720.05</u>
Total Composite rate per Sq. m.								272.01
								272.00

Item No. 15-28-1**Sq.m. Providing and laying 2" (50mm) thick stucco cement plaster 1:2:4 (1 cement, 2 sand, 4 crush 1/2" and down gauge) using Coarse Sand in basement and ground floor including curing.**

Detail of Cost for 10 Sq.m.

1. Labour								
Mason		4.00	Hrs	@	125.00			500.00
Plasterer		4.00	Hrs	@	110.00			440.00
Labourer		16.00	Hrs	@	87.50			1400.00
Bahishti		2.50	Hrs	@	87.50			218.75
								<u>2558.75</u>
Contractor's profit & overhead					20%			511.75
Total Labour rate								<u>307.05</u>
								307.05
2. Material								
Mortar	107.6 x 1/6	17.933	Cu.ft.					
Increase due to swell factor @ 1.55%		0.278	Cu.ft.					
Wastage	10%	1.793	Cu.ft.					
		<u>20.005</u>	Cu.ft.	=	0.567	Cu.m.		
Cement OPC		0.178	M.Ton	@	10500.00			1869.00
Sand local		0.247	Cu.m.	@	882.75			218.04
Crushed Aggregate 3/8" & down gauge		0.495	Cu.m.	@	1296.75			641.89
								<u>2728.93</u>
3. Scaffolding and sundries					5%			136.45
Total of 1,2, & 3								<u>5424.13</u>
Contractor's profit & overhead					20%			1084.83
Total								<u>6508.95</u>
Total Composite rate per Sq. m.								650.90
								650.90

Item No. 15-29

Providing and laying machine sprayed plaster using cement and zero number marble chips over a prepared roughened base coat in basement and ground floor but excluding the cost of base coat.

Detail of Cost for 10 Sq.m.

Sq.m. a) 1 : 1 (one cement and one marble chips)**i) 1/2" Thick**

1. Labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Plasterer	2.00	Hrs @ 110.00	220.00
	Labourer	2.00	Hrs @ 87.50	175.00
	Bahishti	1.00	Hrs @ 87.50	87.50
	Machine operator for spray machine	2.00	Hrs @ 125.00	250.00
	Hire charges of spray machine	2.00	Hrs @ 31.25	62.50
				<u>795.00</u>
	Contractor's profit & overhead		20%	159.00
	Total Labour rate			<u>95.40</u> 95.40
	2. Material			
	Mortar 107.6 x 1/2 x 1/12	4.483	Cu.ft.	
	Increase due to swell factor @ 60%	2.690	Cu.ft.	
		<u>7.173</u>	Cu.ft. = 0.203	Cu.m.
	Cement OPC 0.203 x 1/2 x 1440	146.16	Kg. @ 10.50	1534.68
	Chips zero number 0.203 x 1/2 x 1600	162.40	Kg. @ 7.00	1136.80
	Water charges		1.5%	40.07
				<u>2711.55</u>
	3. Scaffolding and sundries		5%	135.58
	Total of 1,2, & 3			<u>3642.12</u>
	Contractor's profit & overhead		20%	728.42
	Total Composite rate per Sq. m.			<u>437.05</u> 437.05
	ii) 1/4" Thick			
	1. Labour			
	Same as in item (a) above			795.00
	Contractor's profit & overhead		20%	159.00
	Total Labour rate			<u>95.40</u> 95.40
	2. Material			
	Mortar 107.6 x 1/4 x 1/12	2.242	Cu.ft.	
	Increase due to swell factor @ 60%	1.345	Cu.ft.	
		<u>3.587</u>	Cu.ft. = 0.102	Cu.m.
	Cement OPC 0.102 x 1/2 x 1440	73.44	Kg. @ 10.50	771.12
	Chips zero number 0.102 x 1/2 x 1600	81.60	Kg. @ 7.00	571.20
	Water charges		1.5%	20.13
				<u>1362.45</u>
	3. Scaffolding and sundries		5%	68.12
	Total of 1,2, & 3			<u>2225.57</u>
	Contractor's profit & overhead		20%	445.11
	Total			<u>2670.69</u>
	Total Composite rate per Sq. m.			<u>267.07</u> 267.05
	Sq.m. b) 1 : 1.5 (one cement and one & half marble chips)			
	i) 1/2" Thick			
	1. Labour			
	Same as in item (a) above			795.00
	Contractor's profit & overhead		20%	159.00
	Total Labour rate			<u>95.40</u> 95.40
	2. Material			
	Cement OPC 0.203 x 2/5 x 1440	116.93	Kg. @ 10.50	1227.74
	Chips zero number 0.203 x 3/5 x 1600	194.88	Kg. @ 7.00	1364.16
	Water charges		1.5%	38.88
				<u>2630.78</u>
	3. Scaffolding and sundries		5%	131.54
	Total of 1,2, & 3			<u>3557.32</u>
	Contractor's profit & overhead		20%	711.46
	Total			<u>4268.79</u>
	Total Composite rate per Sq. m.			<u>426.88</u> 426.90

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
ii) 1/4" Thick				
1. Labour				
Same as in item (a) above				
Contractor's profit & overhead				
20%				
Total Labour rate				
95.40				
95.40				
2. Material				
Cement OPC				
0.102 x 2/5 x 1440				
58.75 Kg. @ 10.50				
616.90				
Chips zero number				
0.102 x 3/5 x 1600				
97.92 Kg. @ 7.00				
685.44				
Water charges				
1.5%				
19.53				
1321.87				
3. Scaffolding and sundries				
5%				
66.09				
Total of 1,2, & 3				
2182.96				
Contractor's profit & overhead				
20%				
436.59				
Total				
2619.55				
Total Composite rate per Sq. m.				
261.96				
261.95				
Sq.m. c) 1 : 2 (one cement and two marble chips)				
i) 1/2" Thick				
1. Labour				
Same as in item (a) above				
Contractor's profit & overhead				
20%				
Total Labour rate				
95.40				
95.40				
2. Material				
Cement OPC				
0.203 x 1/3 x 1440				
97.44 Kg. @ 10.50				
1023.12				
Chips zero number				
0.203 x 2/3 x 1600				
216.53 Kg. @ 7.00				
1515.73				
Water charges				
1.5%				
38.09				
2576.94				
3. Scaffolding and sundries				
5%				
128.85				
Total of 1,2, & 3				
3500.79				
Contractor's profit & overhead				
20%				
700.16				
Total				
4200.94				
Total Composite rate per Sq. m.				
420.09				
420.10				
ii) 1/4" Thick				
1. Labour				
Same as in item (a) above				
Contractor's profit & overhead				
20%				
Total Labour rate				
95.40				
95.40				
2. Material				
Cement OPC				
0.102 x 1/3 x 1440				
48.96 Kg. @ 10.50				
514.08				
Chips zero number				
0.102 x 2/3 x 1600				
108.80 Kg. @ 7.00				
761.60				
Water charges				
1.5%				
19.14				
1294.82				
3. Scaffolding and sundries				
5%				
64.74				
Total of 1,2, & 3				
2154.56				
Contractor's profit & overhead				
20%				
430.91				
Total				
2585.47				
Total Composite rate per Sq. m.				
258.55				
258.55				
Item No. 15-30-1				
Sq.m. Providing floating coat of cement 1/32" (0.8 mm) thick including curing.				
Detail of Cost for 10 Sq.m.				
1. Labour				
Mason				
4.00 Hrs @ 125.00				
500.00				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Labourer	2.00 Hrs @ 87.50		175.00	
Bahishti	1.00 Hrs @ 87.50		87.50	
			<u>762.50</u>	
Contractor's profit & overhead		20%	152.50	
Total Labour rate			<u>91.50</u>	91.50
2. Material				
Mortar	107.6 x 1/32 x 1/12	0.28 Cu.ft.		
	0.28 x 90 x 1/2.20462)	11.43 Cu.ft.		
Wastage	100%	11.43 Cu.ft.		
		<u>22.86</u> Kg.		
Mortar	22.86 Kg. @ 10.50		240.04	
3. Scaffolding and sundries			5% 12.00	
Total of 1,2, & 3			<u>1014.54</u>	
Contractor's profit & overhead		20%	202.91	
Total			<u>1217.45</u>	
Total Composite rate per Sq. m.			121.75	121.75

Item No. 15-31

Providing gobi leeping upto 1/8 inches (3.2mm) thick mixed with cowdung and clay using one part cowdung and one part clay at any height and in any floor

Detail of Cost of 10 Sq.m.

Sq.m. a) On walls**1. Labour**

Mason	0.75 Hrs @ 125.00	93.75
Labourer	0.75 Hrs @ 87.50	65.63
Bahishti	0.50 Hrs @ 87.50	43.75
Total		<u>203.13</u>
Contractor's profit & overhead	20%	40.63
Total Labour rate		<u>24.38</u>

24.40**2. Material**

Mortar	107.6 x 1/8 x 1/12	1.12 Cu.ft.	
Swell factor	30%	0.34 Cu.ft.	
		<u>1.46</u> Cu.ft.	
Wastage	10%	0.15 Cu.ft.	
		<u>1.60</u> Cu.ft.	
		0.045 Cu.m.	
Cowdung	0.023 Cu.m. @ 106.00	2.41	
Clay	0.023 Cu.m. @ 70.62	1.60	
Water charges	1.50%	0.06	
		<u>4.07</u>	
3. Scaffolding and Sundries		5% 0.20	
Total of 2 & 3		<u>4.27</u>	
Contractor's profit & overhead	20%	0.85	
Total		<u>5.13</u>	
Total Composite rate per Sq. m.		24.89	

24.90**Sq.m. b) Over floor or roof****1. Labour**

Mason	0.50 Hrs @ 125.00	62.50
Labourer	0.50 Hrs @ 87.50	43.75
Bahishti	0.50 Hrs @ 87.50	43.75
Total		<u>150.00</u>
Contractor's profit & overhead	20%	30.00
Total Labour rate		<u>18.00</u>

18.00**2. Material**

Same as in item (a) above 4.07

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	3. Scaffolding and Sundries	5%	0.20
	Total of 2 & 3		4.27
	Contractor's profit & overhead	20%	0.85
	Total		5.13
	Total Composite rate per Sq. m.		18.51
			18.50

Item No. 15-32

Mud plaster on walls mixed with cowdung, bhoosa and clay 1:1:2 (one part cowdung, one part bhoosa weighing 80 kg./cu.m. and two parts clay) in basement, plinth and ground floor.

Detail of Cost for 10 Sq.m.

Sq.m. a) 1/2" (13 mm) thick

1. Labour						
Plasterer		4.00	Hrs	@	110.00	440.00
Labourer		6.00	Hrs	@	87.50	525.00
Bahishti		0.50	Hrs	@	87.50	43.75
						1008.75
Contractor's profit & overhead					20%	201.75
Total Labour rate						121.05
						121.05
2. Material						
Mortar	107.6 x 1/2 x 1/12	4.483	Cu.ft.			
Swell factor	30%	1.345	Cu.ft.			
		5.828	Cu.ft.			
Wastage	10%	0.583	Cu.ft.			
		6.411	Cu.ft.	=	0.182	Cu.m.
Clay	0.182 x 2/4	0.091	Cu.m.	@	70.62	6.41
Cowdung	0.182 x 1/4	0.045	Cu.m.	@	106.00	4.81
Bhoosa	0.182 x 1/4 x 80	3.631	Cu.m.	@	20.00	72.63
Water Charges					1.5%	1.26
						85.11
3. Scaffolding and sundries					5%	50.44
Total of 2, & 3						135.55
Contractor's profit & overhead					20%	27.11
Total						162.66
Total Composite rate per Sq. m.						137.32
						137.30

Sq.m. b) 3/4" (19 mm) thick

1. Labour						
Plasterer		4.00	Hrs	@	110.00	440.00
Labourer		7.00	Hrs	@	87.50	612.50
Bahishti		0.50	Hrs	@	87.50	43.75
						1096.25
Contractor's profit & overhead					20%	219.25
Total Labour rate						131.55
						131.55
2. Material						
Mortar	107.6 x 3/4 x 1/12	6.725	Cu.ft.			
Swell factor	30%	2.018	Cu.ft.			
		8.743	Cu.ft.			
Wastage	10%	0.874	Cu.ft.			
		9.617	Cu.ft.	=	0.272	Cu.m.
Clay	0.272 x 2/4	0.136	Cu.m.	@	70.62	9.62
Cowdung	0.272 x 1/4	0.068	Cu.m.	@	106.00	7.22
Bhoosa	0.272 x 1/4 x 80	5.447	Cu.m.	@	20.00	108.94
Water Charges					1.5%	1.89
						127.66
3. Scaffolding and sundries					5%	54.81
Total of 2, & 3						182.48
Contractor's profit & overhead					20%	36.50
						36.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total			218.97
	Total Composite rate per Sq. m.			153.45
				153.45
Sq.m. c)	1" (25 mm) thick			
	1. Labour			
	Plasterer	4.00	Hrs @ 110.00	440.00
	Labourer	8.00	Hrs @ 87.50	700.00
	Bahishti	0.75	Hrs @ 87.50	65.63
				1205.63
	Contractor's profit & overhead		20%	241.13
	Total Labour rate			144.68
				144.70
	2. Material			
	Mortar	107.6 x 1 x 1/12	8.967 Cu.ft.	
	Swell factor	30%	2.690 Cu.ft.	
			11.657 Cu.ft.	
	Wastage	10%	1.166 Cu.ft.	
			12.822 Cu.ft. = 0.363 Cu.m.	
	Clay	0.363 x 2/4	0.182 Cu.m. @ 70.62	12.82
	Cowdung	0.363 x 1/4	0.091 Cu.m. @ 106.00	9.62
	Bhoosa	0.363 x 1/4 x 80	7.263 Cu.m. @ 20.00	145.25
	Water Charges		1.5%	2.52
				170.22
	3. Scaffolding and sundries		5%	60.28
	Total of 2, & 3			230.50
	Contractor's profit & overhead		20%	46.10
	Total Composite rate per Sq. m.			172.34
				172.35
Sq.m. d)	1.25" (32 mm) thick			
	1. Labour			
	Plasterer	4.00	Hrs @ 110.00	440.00
	Labourer	9.00	Hrs @ 87.50	787.50
	Bahishti	1.00	Hrs @ 87.50	87.50
				1315.00
	Contractor's profit & overhead		20%	263.00
	Total Labour rate			157.80
				157.80
	2. Material			
	Mortar	107.6 x 1.25 x 1/12	11.208 Cu.ft.	
	Swell factor	30%	3.363 Cu.ft.	
			14.571 Cu.ft.	
	Wastage	10%	1.457 Cu.ft.	
			16.028 Cu.ft. = 0.454 Cu.m.	
	Clay	0.454 x 2/4	0.227 Cu.m. @ 70.62	16.03
	Cowdung	0.454 x 1/4	0.113 Cu.m. @ 106.00	12.03
	Bhoosa	0.454 x 1/4 x 80	9.078 Cu.m. @ 20.00	181.57
	Water Charges		1.5%	3.15
				212.77
	3. Scaffolding and sundries		5%	65.75
	Total of 2, & 3			278.52
	Contractor's profit & overhead		20%	55.70
	Total			334.23
	Total Composite rate per Sq. m.			191.22
				191.20

Item No. 15-33

Mud plaster on floor mixed with cowdung, bhoosa and clay 1:1:2 (one part cowdung, one part bhoosa weighing 80 kg./cu.m. and two parts clay) in basement, plinth and ground floor.

Detail of Cost for 10 Sq.m.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Sq.m. a)	1/2" (13 mm) thick			
	1. Labour			
	Plasterer	3.50	Hrs @ 110.00	385.00
	Labourer	5.25	Hrs @ 87.50	459.38
	Bahishti	1.00	Hrs @ 87.50	87.50
				<u>931.88</u>
	Contractor's profit & overhead		20%	186.38
	Total Labour rate			<u>111.83</u>
				111.85
	2. Material			
	Same as in item 15-32(a)			85.11
	3. Scaffolding and sundries		2.5%	23.30
	Total of 1,2, & 3			<u>1040.28</u>
	Contractor's profit & overhead		20%	208.06
	Total			<u>1248.34</u>
	Total Composite rate per Sq. m.			124.83
				124.85
Sq.m. b)	3/4" (19 mm) thick			
	1. Labour			
	Plasterer	3.50	Hrs @ 110.00	385.00
	Labourer	6.25	Hrs @ 87.50	546.88
	Bahishti	0.50	Hrs @ 87.50	43.75
				<u>975.63</u>
	Contractor's profit & overhead		20%	195.13
	Total Labour rate			<u>117.08</u>
				117.10
	2. Material			
	Same as in item 15-32(b)			127.66
	3. Scaffolding and sundries		2.5%	24.39
	Total of 2, & 3			<u>152.06</u>
	Contractor's profit & overhead		20%	30.41
	Total Composite rate per Sq. m.			<u>135.32</u>
				135.30
Sq.m. c)	1" (25 mm) thick			
	1. Labour			
	Plasterer	3.50	Hrs @ 110.00	385.00
	Labourer	7.25	Hrs @ 87.50	634.38
	Bahishti	0.75	Hrs @ 87.50	65.63
				<u>1085.00</u>
	Contractor's profit & overhead		20%	217.00
	Total Labour rate			<u>130.20</u>
				130.20
	2. Material			
	Same as in item 15-32(c)			170.22
	3. Scaffolding and sundries		2.5%	27.13
	Total of 1,2, & 3			<u>1282.34</u>
	Contractor's profit & overhead		20%	256.47
	Total Composite rate per Sq. m.			<u>153.88</u>
				153.90
Sq.m. d)	1.25" (32 mm) thick mud plaster			
	1. Labour			
	Plasterer	3.50	Hrs @ 110.00	385.00
	Labourer	8.25	Hrs @ 87.50	721.88
	Bahishti	1.00	Hrs @ 87.50	87.50
				<u>1194.38</u>
	Contractor's profit & overhead		20%	238.88
	Total Labour rate			<u>143.33</u>
				143.35
	2. Material			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Same as in item 15-32(d)			212.77
	3. Scaffolding and sundries	2.5%		29.86
	Total of 1,2, & 3			1437.01
	Contractor's profit & overhead	20%		287.40
	Total Composite rate per Sq. m.			172.44
				172.45
Sq.m e)	Extra over item 15-33 (a to d) for roof			
	1. Labour			
	Plasterer	2.00	Hrs @ 110.00	220.00
	Labourer	2.00	Hrs @ 87.50	175.00
				395.00
	Contractor's profit & overhead		20%	79.00
	Total Labour rate			47.40
				47.40
	Item No. 15-34			
	Extra for plaster work of any description on first floor.			
	Detail of Cost for 10 Sq.m.			
Sq.m. a)	Upto 1/2 inch (13 mm) thick			
	1. Extra labour			
	Plasterer	3.75	Hrs @ 110.00	412.50
	Labourer	3.75	Hrs @ 87.50	328.13
	Bahishti	4.00	Hrs @ 87.50	350.00
				1090.63
	Contractor's profit & overhead		20%	218.13
	Total Labour rate			130.88
				130.90
	2. Scaffolding and sundries		15%	163.59
	Total of 1 & 2			1254.22
	Contractor's profit & overhead		20%	250.84
	Total			1505.06
	Total Composite rate per Sq. m.			150.51
				150.50
Sq.m. b)	Above 1/2 inch (13 mm) and upto 1 inch (25 mm) thick			
	1. Extra labour			
	Plasterer	4.00	Hrs @ 110.00	440.00
	Labourer	4.00	Hrs @ 87.50	350.00
	Bahishti	4.25	Hrs @ 87.50	371.88
				1161.88
	Contractor's profit & overhead		20%	232.38
	Total Labour rate			139.43
				139.45
	2. Scaffolding and sundries		15%	174.28
	Total of 1 & 2			1336.16
	Contractor's profit & overhead		20%	267.23
	Total Composite rate per Sq. m.			160.34
				160.35
Sq.m. c)	Above 1 inch (25 mm) thick			
	1. Extra labour			
	Plasterer	5.00	Hrs @ 110.00	550.00
	Labourer	5.00	Hrs @ 87.50	437.50
	Bahishti	6.00	Hrs @ 87.50	525.00
				1512.50
	Contractor's profit & overhead		20%	302.50
	Total Labour rate			181.50
				181.50
	2. Scaffolding and sundries		15%	226.88
	Total of 1 & 2			1739.38
	Contractor's profit & overhead		20%	347.88
	Total Composite rate per Sq. m.			208.73
				208.75

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 15-35

Extra for every additional floor above first floor for plaster work of any description.

Detail of Cost for 10 Sq.m.

Sq.m. a) Upto 1/2 inch (13 mm) thick

1. Extra labour

Plasterer	3.25	Hrs	@	110.00	357.50
Labourer	3.25	Hrs	@	87.50	284.38
Bahishti	3.50	Hrs	@	87.50	306.25
					<u>948.13</u>

Contractor's profit & overhead

20% 189.63

Total Labour rate 113.78

113.80

2. Scaffolding and sundries

15% 142.22

Total of 1 & 2 1090.34

Contractor's profit & overhead

20% 218.07

Total 1308.41

Total Composite rate per Sq. m. 130.84

130.85

Sq.m. b) Above 1/2 inch (13 mm) and upto 1 inch (25 mm) thick

1. Extra labour

Plasterer	3.50	Hrs	@	110.00	385.00
Labourer	3.50	Hrs	@	87.50	306.25
Bahishti	3.75	Hrs	@	87.50	328.13
					<u>1019.38</u>

Contractor's profit & overhead

20% 203.88

Total Labour rate 122.33

122.35

2. Scaffolding and sundries

15% 152.91

Total of 1 & 2 1172.28

Contractor's profit & overhead

20% 234.46

Total Composite rate per Sq. m. 140.67

140.65

Sq.m. c) Above 1 inch (25 mm) thick

1. Extra labour

Plasterer	3.75	Hrs	@	110.00	412.50
Labourer	3.75	Hrs	@	87.50	328.13
Bahishti	3.75	Hrs	@	87.50	328.13
					<u>1068.75</u>

Contractor's profit & overhead

20% 213.75

Total Labour rate 128.25

128.25

2. Scaffolding and sundries

15% 160.31

Total of 1 & 2 1229.06

Contractor's profit & overhead

20% 245.81

Total Composite rate per Sq. m. 147.49

147.50

Item No. 15-36

Pointing on brick work with cement sand mortar in plinth and ground floor including raking out joints and curing

Detail of Cost for 10 Sq.m.

Thickness of joints is taken as 3/8", Size of brick

including mortar $(9 \times 3/8 = 9.375, 2.688 + 3/8 = 3.063)$

Area $75/8 \times 49/16 \times 1/144$ 0.199 Sq.ft.

No. of Bricks $107.60 / 0.199$ 540 Nos.

Length of joints $2 \times (9.375 + 3.063) / 12 =$ 2.07

Total length 2.073×540 1118.73 Ft.

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. a) Flush pointing in cement sand mortar**i) 1 : 2**

1. Labour

Mason 6.00 Hrs @ 125.00 750.00

Labourer 10.00 Hrs @ 87.50 875.00

Bahishti 3.00 Hrs @ 87.50 262.50

1887.50

Contractor's profit & overhead 20% 377.50

Total Labour rate 226.50 **226.50**

2. Material

Mortar 1/2x1118.73x1/2x3/8x1/144 0.73 Cu.ft.

Wastage 25% 0.18 Cu.ft.

0.91 Cu.ft. = 0.026 Cu.m.

Mortar 0.026 Cu.m. @ 8442.75 217.69

Water charges 1.5% 3.27220.953. Scaffolding and sundries 5% 37.50Total of 1, 2 & 3 2145.95Contractor's profit & overhead 20% 429.19Total 2575.14Total Composite rate per Sq. m. 257.51 **257.50****ii) 1 : 3**

1. Labour

Same as Item (i) above 1887.50

Contractor's profit & overhead 20% 377.50Total Labour rate 226.50 **226.50**

2. Material

Mortar 0.026 Cu.m. @ 6099.30 157.26

Water charges 1.5% 2.36159.623. Scaffolding and sundries 5% 94.38Total of 1, 2 & 3 2141.50Contractor's profit & overhead 20% 428.30Total 2569.80Total Composite rate per Sq. m. 256.98 **257.00****Sq.m. b) Deep ruled pointing in cement sand mortar****i) 1 : 2**

1. Labour

Mason 7.00 Hrs @ 125.00 875.00

Labourer 14.00 Hrs @ 87.50 1225.00

Bahishti 4.00 Hrs @ 87.50 350.00

2450.00Contractor's profit & overhead 20% 490.00Total Labour rate 294.00 **294.00**

2. Material

Mortar 1/2x1118.73x3/8x1/144 1.46 Cu.ft.

Wastage 25% 0.36 Cu.ft.

1.82 Cu.ft. = 0.052 Cu.m.

Mortar 0.052 Cu.m. @ 8442.75 435.37

Water charges 1.5% 6.53441.903. Scaffolding and sundries 5% 43.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total of 1, 2 & 3		2935.65	
	Contractor's profit & overhead	20%	587.13	
	Total		3522.78	
	Total Composite rate per Sq. m.		352.28	352.30
ii)	1 : 3			
	1. Labour			
	Same as Item (i) above		2450.00	
	Contractor's profit & overhead	20%	490.00	
	Total Labour rate		294.00	294.00
	2. Material			
	Mortar	0.052 Cu.m. @	6099.30	314.53
	Water charges		1.5%	4.72
				319.24
	3. Scaffolding and sundries		5%	122.50
	Total of 1, 2 & 3			2891.74
	Contractor's profit & overhead	20%	578.35	
	Total		3470.09	
	Total Composite rate per Sq. m.		347.01	347.00
Sq.m. c)	Tuck or weather struck pointing in cement sand mortar			
i)	1 : 2			
	1. Labour			
	Mason	8.00 Hrs @	125.00	1000.00
	Labourer	6.00 Hrs @	87.50	525.00
	Bahishti	4.00 Hrs @	87.50	350.00
				1875.00
	Contractor's profit & overhead	20%	375.00	
	Total Labour rate		225.00	225.00
	2. Material	Same as item (b) above		441.90
	3. Scaffolding and sundries		5%	93.75
	Total of 1, 2 & 3			2410.65
	Contractor's profit & overhead	20%	482.13	
	Total		2892.78	
	Total Composite rate per Sq. m.		289.28	289.30
ii)	1 : 3			
	1. Labour			
	Same as Item (i) above		1875.00	
	Contractor's profit & overhead	20%	375.00	
	Total Labour rate		225.00	225.00
	2. Material	Same as item (b) above		319.24
	3. Scaffolding and sundries		5%	93.75
	Total of 1, 2 & 3			2287.99
	Contractor's profit & overhead	20%	457.60	
	Total		2745.59	
	Total Composite rate per Sq. m.		274.56	274.55
Sq.m. d)	Extra for first floor			
	Extra Labour for lift			
	Labourer	1.75 Hrs @	87.50	153.13
	Contractor's profit & overhead	20%	30.63	
	Total Labour rate		18.38	18.40
Sq.m. e)	Extra for every additional floor above first floor.			

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Extra Labour for lift					
Labourer	1.25	Hrs	@	87.50	109.38
Contractor's profit & overhead				20%	21.88
Total Labour rate					13.13

13.15

Item No. 15-37

Pointing on cement concrete block work with cement sand mortar in plinth and ground floor including raking out joints and curing

Detail of Cost for 10 Sq.m.

Sq.m. a) Flush pointing in cement sand mortar**i) 1 : 2****1. Labour**

Mason	4.00	Hrs	@	125.00	500.00
Labourer	7.00	Hrs	@	87.50	612.50
Bahishti	3.00	Hrs	@	87.50	262.50

1375.00

Contractor's profit & overhead				20%	275.00
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Total Labour rate					165.00
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165.00

2. Material	Cost 2/3 of Item 15-36 (a)1				147.30
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3. Scaffolding and sundries				5%	68.75
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Total of 1, 2 & 3					1591.05
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Contractor's profit & overhead				20%	318.21
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Total Composite rate per Sq. m.					190.93
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190.95

ii) 1 : 3**1. Labour** Same as Item (i) above

Contractor's profit & overhead				20%	275.00
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Total Labour rate					165.00
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165.00

2. Material	Cost 2/3 of Item 15-36 (a)2				106.41
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3. Scaffolding and sundries				5%	68.75
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Total of 2 & 3					175.16
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Contractor's profit & overhead				20%	35.03
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Total Composite rate per Sq. m.					186.02
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186.00

Sq.m. b) Deep ruled pointing in cement sand mortar**i) 1 : 2****1. Labour**

Mason	5.00	Hrs	@	125.00	625.00
Labourer	9.00	Hrs	@	87.50	787.50
Bahishti	3.00	Hrs	@	87.50	262.50

1675.00

Contractor's profit & overhead				20%	335.00
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Total Labour rate					201.00
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201.00

2. Material	Cost 3/4 of Item 15-36 (b)1				331.43
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3. Scaffolding and sundries				5%	83.75
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Total of 1, 2 & 3					2090.18
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Contractor's profit & overhead				22%	459.84
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Total					2550.02
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Total Composite rate per Sq. m.					255.00
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255.00

ii) 1 : 3**1. Labour**

Same as Item (i) above					1675.00
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Contractor's profit & overhead				20%	335.00
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Total Labour rate					201.00
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201.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Material Cost 3/4 of Item 15-36 (b)2			239.43
	3. Scaffolding and sundries	5%		10.05
	Total of 1, 2 & 3			1924.48
	Contractor's profit & overhead	20%		384.90
	Total			2309.38
	Total Composite rate per Sq. m.			230.94
				230.95
Sq.m.	c) Tuck or weather struck pointing in cement sand mortar			
	i) 1 : 2			
	1. Labour			
	Mason	6.00	Hrs @ 125.00	750.00
	Labourer	11.00	Hrs @ 87.50	962.50
	Bahishti	3.00	Hrs @ 87.50	262.50
				1975.00
	Contractor's profit & overhead	20%		395.00
	Total Labour rate			237.00
				237.00
	2. Material Same as item (b)1 above			331.43
	3. Scaffolding and sundries	5%		98.75
	Total of 1, 2 & 3			2405.18
	Contractor's profit & overhead	20%		481.04
	Total			2886.21
	Total Composite rate per Sq. m.			288.62
				288.60
	ii) 1 : 3			
	1. Labour			
	Same as Item (i) above			1975.00
	Contractor's profit & overhead	20%		395.00
	Total Labour rate			237.00
				237.00
	2. Material Same as item (b)2 above			239.43
	3. Scaffolding and sundries	5%		98.75
	Total of 1, 2 & 3			2313.18
	Contractor's profit & overhead	20%		462.64
	Total			2775.82
	Total Composite rate per Sq. m.			277.58
				277.60
Sq.m.	d) Extra for first floor			
	Extra Labour for lift			
	Labourer	1.50	Hrs @ 87.50	131.25
	Contractor's profit & overhead	20%		26.25
	Total Labour rate			15.75
				15.75
Sq.m.	e) Extra for every additional floor above first floor.			
	Extra Labour for lift			
	Labourer	1.25	Hrs @ 87.50	109.38
	Contractor's profit & overhead	20%		21.88
	Total Labour rate			13.13
				13.15
	Item No. 15-38			
	Pointing on stone work with cement sand mortar using Coarse Sand in plinth and ground floor including raking out joints and curing			
	Detail of Cost for 10 Sq.m.			
Sq.m.	a) Flush pointing in cement sand mortar			
	i) 1 : 2			
	1. Labour			
	Mason	5.00	Hrs @ 125.00	625.00
	Labourer	9.00	Hrs @ 87.50	787.50
	Bahishti	2.50	Hrs @ 87.50	218.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			1631.25	
	Contractor's profit & overhead	20%	326.25	
	Total Labour rate		195.75	195.75
	2. Material			
	Mortar twice of Item 15-36 (a)1	0.052	Cu.m	
	Mortar	0.052	Cu.m @ 8442.75	435.37
	Water charges		1.5%	6.53
				441.90
	3. Scaffolding and sundries		5%	16.31
	Total of 1, 2 & 3			2089.47
	Contractor's profit & overhead	20%	417.89	
	Total Composite rate per Sq. m.		250.74	250.75
ii) 1 : 3				
	1. Labour	Same as Item (i) above		1631.25
	Contractor's profit & overhead	20%	326.25	
	Total Labour rate		195.75	195.75
	2. Material			
	Mortar	0.052	Cu.m @ 6099.30	314.53
	Water charges		1.5%	4.72
				319.24
	3. Scaffolding and sundries		5%	16.31
	Total of 1, 2 & 3			1966.81
	Contractor's profit & overhead	20%	393.36	
	Total Composite rate per Sq. m.		236.02	236.00
Sq.m. b) Deep ruled pointing in cement sand mortar				
i) 1 : 2				
	1. Labour			
	Mason	6.00	Hrs @ 125.00	750.00
	Labourer	11.00	Hrs @ 87.50	962.50
	Bahishti	2.50	Hrs @ 87.50	218.75
				1931.25
	Contractor's profit & overhead	20%	386.25	
	Total Labour rate		231.75	231.75
	2. Material			
	Mortar is increased by 15% of Item 15-38 (a)1	0.059	Cu.m @ 8442.75	500.68
	Water charges		1.5%	7.51
				508.19
	3. Scaffolding and sundries		5%	19.31
	Total of 1, 2 & 3			2458.75
	Contractor's profit & overhead	20%	491.75	
	Total Composite rate per Sq. m.		295.05	295.05
ii) 1 : 3				
	1. Labour	Same as Item (i) above		1931.25
	Contractor's profit & overhead	20%	386.25	
	Total Labour rate		231.75	231.75
	2. Material			
	Mortar	0.059	Cu.m @ 6099.30	361.71
	Water charges		1.5%	5.43
				367.13
	3. Scaffolding and sundries		5%	19.31
	Total of 1, 2 & 3			2317.69
	Contractor's profit & overhead	20%	463.54	
	Total Composite rate per Sq. m.		278.12	278.10

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Sq.m. c)	Tuck or weather struck pointing in cement sand mortar			
i)	1 : 2			
	1. Labour			
	Mason	7.00	Hrs @ 125.00	875.00
	Labourer	13.00	Hrs @ 87.50	1137.50
	Bahishti	2.50	Hrs @ 87.50	218.75
				<u>2231.25</u>
	Contractor's profit & overhead		20%	446.25
	Total Labour rate			267.75
				267.75
	2. Material			508.19
	3. Scaffolding and sundries		5%	111.56
	Total of 1, 2 & 3			<u>2851.00</u>
	Contractor's profit & overhead		20%	570.20
	Total Composite rate per Sq. m.			<u>342.12</u>
				342.10
ii)	1 : 3			
	1. Labour			2231.25
	Contractor's profit & overhead		20%	446.25
	Total Labour rate			<u>267.75</u>
				267.75
	2. Material			367.13
	3. Scaffolding and sundries		5%	111.56
	Total of 1, 2 & 3			<u>2709.94</u>
	Contractor's profit & overhead		20%	541.99
	Total Composite rate per Sq. m.			<u>325.19</u>
				325.20
Sq.m. d)	Raised or cut pointing in cement sand mortar			
i)	1 : 2			
	1. Labour			
	Mason	8.00	Hrs @ 125.00	1000.00
	Labourer	15.00	Hrs @ 87.50	1312.50
	Bahishti	2.50	Hrs @ 87.50	218.75
				<u>2531.25</u>
	Contractor's profit & overhead		20%	506.25
	Total Labour rate			303.75
				303.75
	2. Material			565.99
	Mortar is increased by 30% of Item 15-38 (a)1	0.067	Cu.m @ 8442.75	565.99
	Water charges		1.5%	8.49
				<u>574.47</u>
	3. Scaffolding and sundries		5%	25.31
	Total of 1, 2 & 3			<u>3131.04</u>
	Contractor's profit & overhead		20%	626.21
	Total Composite rate per Sq. m.			<u>375.72</u>
				375.70
ii)	1 : 3			
	1. Labour			2531.25
	Contractor's profit & overhead		20%	506.25
	Total Labour rate			<u>303.75</u>
				303.75
	2. Material			408.88
	Mortar	0.067	Cu.m @ 6099.30	408.88
	Water charges		1.5%	6.13
				<u>2946.27</u>
	3. Scaffolding and sundries		5%	25.31
	Total of 1, 2 & 3			<u>2971.58</u>
	Contractor's profit & overhead		20%	594.32

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Composite rate per Sq. m.		356.59	356.60
Sq.m. e)	Extra for mixing pigment of required colour			
	1. Labour			
	Labourer	1.00	Hrs @ 87.50	87.50
	Contractor's profit & overhead		20%	17.50
	Total Labour rate			1.75
	2. Material			
	Pigment	0.50	Kg. @ 82.50	41.25
	Total of 1& 2			128.75
	Contractor's profit & overhead		20%	25.75
	Total Composite rate per Sq. m.			15.45
Sq.m. f)	Extra for first floor			
	1. Labour			
	Labourer	5.00	Hrs @ 87.50	437.50
	Contractor's profit & overhead		20%	87.50
	Total Labour rate			52.50
Sq.m. g)	Extra for every additional floor above first floor.			
	1. Labour			
	Labourer	4.00	Hrs @ 87.50	350.00
	Contractor's profit & overhead		20%	70.00
	Total Labour rate			42.00
	Item No. 15-39-1			
Sq.m.	Extra for ceiling plaster of any description in any floor for every 5 ft (1.5m) height or part thereof beyond 15 ft (4.5m) height			
	1. Labour			
	a) For assembling, removal and clearance			
	Carpenter	160.00	Hrs @ 125.00	20000.00
	Helper	80.00	Hrs @ 75.00	6000.00
	b) For carrying material and curing			
	Labourer	80.00	Hrs @ 87.50	7000.00
	Bahishti	32.00	Hrs @ 87.50	2800.00
				35800.00
	Contractor's profit & overhead		20%	7160.00
	Total Labour rate per Sq. m.			68.75
	2. Material			
	Wood - Partal	424.42	Cu.ft. @ 1200.00	509306.25
	Sawing charges	424.42	Cu.ft. @ 87.50	37136.91
	Coir string	16.78	Kg. @ 50.00	839.00
	Nail of all sizes		0.2%	1094.56
				548376.73 (A)
	Assuming 30 uses of scaffolding & timber, cost per use would be	A /30		18279.22
	Add for each use, repair charges and coir strings etc.		5%	913.96
				19193.19
	Contractor's profit & overhead		20%	3838.64
	Total			23031.82
	Rate per Sq. m.	7524.27/125		184.25
	Deduct cost of scaffolding for 4.5 m. height.		4%	7.37
				191.62 (B)
	Rate for 1.5 m.	B x 1.5/7.5		38.32
	Rate for ceiling		50%	19.16
	Total Composite rate per Sq. m.			87.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 15-40-1

Sq.m. Extra for wall plaster or pointing of any description in any floor for every 5 ft (1.5m) height or part thereof beyond 15 ft (4.5m) height

The detail of cost of material for superficial area of hall as taken in Item 9-16 is worked out as:

2 x 48' x 40' 3840.00 Sq. ft.

1. Labour

a) For assembling, removal and clearance:

Carpenter	240.00	Hrs @	125.00	30000.00
Helper	80.00	Hrs @	75.00	6000.00

b) For compensating progress of work, carrying material and curing

Labourer	240.00	Hrs @	87.50	21000.00
Bahishti	64.00	Hrs @	87.50	5600.00
Mason	96.00	Hrs @	125.00	12000.00

74600.00

Contractor's profit & overhead 20% 14920.00

Total Labour rate 50.17

50.15

2. Material

Wood - Partal	330.20	Cu.ft. @	1200.00	396240.00
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Sawing charges	330.20	Cu.ft. @	87.50	28892.50
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Coir string	15.00	Kg. @	50.00	750.00
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Nail of all sizes	9.00	Kg. @	90.00	810.00
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426692.50

Assumed this timber can be used for 30 times, thus cost of timber in one operation

426693	/	30	14223.08
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Add for each operation for replacement of strings & repairs etc.

5%	711.15
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Total of 1, 2 & 3

89534.24

Contractor's profit & overhead

20%	17906.85
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Total Composite rate

301.06

The normal height of ground floor is considered as to be 15 ft. (4.5 m), thus the remaining height comes:

12.0 - 4.5 = 7.5 m

The cost of scaffolding & sundries for first 4.5 m is assumed as Rs.8.00

Extra cost for the remaining 7.50 m height = 70.36 - 8.00	293.06
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Extra cost for 1.50 m. beyond 4.50 m. = 62.36 x 1.5/7.5	58.61
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58.60

Item No. 15-41-1

Sq.m. Petty repairs, after removing the loose matter, to fire places, ceiling, soffits, walls, columns, beams and verandah including preparing surface and curing.

1. Labour

Mason	7.15	Hrs @	125.00	893.75
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Labourer	4.95	Hrs @	87.50	433.13
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Bahishti	0.83	Hrs @	87.50	72.19
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1399.06

Contractor's profit & overhead

20%	279.81
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Total Labour rate

167.89

167.90

2. Material

Mortar	0.15	Cu.m. @	4839.30	745.25
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Water Charges		1.5%		11.18
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756.43

3. Scaffolding and Sundries

5%	69.95
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Total of 2 & 3

826.38

Contractor's profit & overhead

20%	165.28
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Total Composite rate per Sq. m.

267.05

267.05

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 15-42**Removing mud plaster & disposing of the rubbish.**

Detail of Cost of 10 Sq.m.

Sq.m. a) From walls

1. Labour

Labourer 2.00 Hrs @ 87.50 175.00

Contractor's profit & overhead 20% 35.00

Total Labour rate 21.00 **21.00**

2. Scaffolding and Sundries

5% 8.75

Total of 1 & 2 183.75

Contractor's profit & overhead 20% 36.75

Total Composite rate per Sq. m. 22.05 **22.05****Sq.m. b) From roof**

1. Labour

Labourer 1.50 Hrs @ 87.50 131.25

Contractor's profit & overhead 20% 26.25

Total Labour rate 15.75 **15.75**

2. Scaffolding and Sundries

5% 6.56

Total of 1 & 2 137.81

Contractor's profit & overhead 20% 27.56

Total Composite rate per Sq. m. 16.54 **16.55****Item No. 15-43-1****Sq.m. Removing cement or lime plaster of any thickness from ceiling and disposing of the rubbish in any floor**

Detail of Cost of 10 Sq.m.

1. Labour

Chiseller 2.50 Hrs @ 90.00 225.00

Labourer 2.50 Hrs @ 87.50 218.75

Total 443.75

Contractor's profit & overhead 20% 43.75

Total Labour rate 48.75 **48.75**

2. Scaffolding and Sundries

5% 22.19

Total of 1 & 2 465.94

Contractor's profit & overhead 20% 93.19

Total Composite rate per Sq. m. 55.91 **55.90****Item No. 15-44****Plastering in patches in cement sand mortar 1:4 including curing and scraping old damaged portions in regular shape and removal of rubbish from the site in ground floor**

Detail of Cost of 10 Sq.m.

Sq.m. a) 3/8 inch (9 mm) thick plastering

1. Labour

Same as in item 15 - 2 above 1206.25

Extra labour

Plasterer 1.00 Hrs @ 110.00 110.00

Labourer 4.00 Hrs @ 87.50 350.00

Total 1666.25

Contractor's profit & overhead 20% 241.25

Total Labour rate 190.75 **190.75**

2. Material

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Same as in item 15 - 2 above		491.19	
	3. Scaffolding and Sundries	5%	60.31	
	Total of 2 & 3		551.50	
	Contractor's profit & overhead	20%	110.30	
	Total		661.80	
	Total Composite rate per Sq. m.		256.93	256.95
Sq.m. b)	1/2 inch (13 mm) thick plastering			
	1. Labour			
	Same as in item 15 - 3 above		1271.88	
	Extra labour			
	Plasterer	1.00 Hrs @	110.00	110.00
	Labourer	4.50 Hrs @	87.50	393.75
	Total		1775.63	
	Contractor's profit & overhead	20%	254.38	
	Total Labour rate		203.00	203.00
	2. Material	Same as in item 15 - 3 above	687.66	
	3. Scaffolding and Sundries	5%	63.59	
	Total of 2 & 3		751.26	
	Contractor's profit & overhead	20%	150.25	
	Total		901.51	
	Total Composite rate per Sq. m.		293.15	293.15
Sq.m. c)	3/4 inch (19 mm) thick plastering			
	1. Labour			
	Same as in item 15 - 4 above		1315.63	
	Extra labour			
	Plasterer	1.00 Hrs @	110.00	110.00
	Labourer	5.50 Hrs @	87.50	481.25
	Total		1906.88	
	Contractor's profit & overhead	20%	263.13	
	Total Labour rate		217.00	217.00
	2. Material	Same as in item 15 - 4 above	1026.35	
	3. Scaffolding and Sundries	5%	65.78	
	Total of 2 & 3		1092.13	
	Contractor's profit & overhead	20%	218.43	
	Total Composite rate per Sq. m.		348.06	348.05
Sq.m. d)	1 inch (25 mm) thick plastering			
	1. Labour			
	Same as in item 15 - 5 above		2400.00	
	Extra labour			
	Plasterer	1.25 Hrs @	110.00	137.50
	Labourer	6.50 Hrs @	87.50	568.75
	Total		3106.25	
	Contractor's profit & overhead	20%	480.00	
	Total Labour rate		358.63	358.65
	2. Material	Same as in item 15 - 5 above	1515.40	
	3. Scaffolding and Sundries	5%	120.00	
	Total of 2 & 3		1635.40	
	Contractor's profit & overhead	20%	327.08	
	Total Composite rate per Sq. m.		554.87	554.85
Sq.m. e)	Extra for patch plaster and finishing of any description on external face item.			
	Extra labour			
	Plasterer	1.00 Hrs @	110.00	110.00
	Labourer	2.00 Hrs @	87.50	175.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total		285.00	
	Contractor's profit & overhead	20%	57.00	
	Total Labour rate		34.20	34.20
	2. Scaffolding and Sundries	5%	14.25	
	Total of 1 & 2		299.25	
	Contractor's profit & overhead	20%	59.85	
	Total Composite rate per Sq. m.		35.91	35.90
Sq.m. f)	Extra for patch plaster and finishing of any description in basement and first floor.			
	Extra labour			
	Labourer	2.00	Hrs @ 87.50	175.00
	Contractor's profit & overhead		20%	35.00
	Total Labour rate			21.00
				21.00
Sq.m. g)	Extra for patch plaster and finishing of any description in every additional floor above first floor.			
	Extra labour			
	Labourer	1.50	Hrs @ 87.50	131.25
	Contractor's profit & overhead		20%	26.25
	Total Labour rate			15.75
				15.75
Sq.m.	Item No. 15-45			
	Supply and fixing of National tiles facing strips/chequered tiles on the plastered surface on exterior faces of building including labour, scaffoldings and removal of debris etc.			
a)	Glazed strip tiles			
	Detail of Cost of 10 Sq.m.			
	Area	10.00	Sq.m.	
	Wastage 5%	0.50	Sq.m.	
		10.50	Sq.m.	
	1. Labour			
	Mason	12.00	Hrs @ 125.00	1500.00
	Labourer	12.00	Hrs @ 87.50	1050.00
	Bahishti	3.00	Hrs @ 87.50	262.50
				2812.50
	Contractor's profit & overhead		20%	562.50
	Total Labour rate			337.50
				337.50
	2. Material			
	Tiles, facing strips - glazed	10.50	Sq. m. @ 750.00	7875.00
	Cement OPC	25.00	Kg. @ 10.50	262.50
				8137.50
	Water Charges		1.5%	122.07
				8259.57
	3. Scaffolding and Sundries		10%	281.25
	Total of 2 & 3			8540.82
	Contractor's profit & overhead		20%	1708.16
	Total Composite rate per Sq. m.			1362.40
				1362.40
b)	Unglazed strip tiles			
	1. Labour			
	Same as in item (a) above			2812.50
	Contractor's profit & overhead		20%	562.50
	Total Labour rate			337.50
				337.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	Tiles, facing strips - unglazed	10.50	Sq. m. @ 650.00	6825.00
	Cement OPC	25.00	Kg. @ 10.50	262.50
				<u>7087.50</u>
	Water Charges		1.5%	106.32
				<u>7193.82</u>
3. Scaffolding and Sundries				
	Total of 2 & 3		10%	281.25
				<u>7475.07</u>
	Contractor's profit & overhead		20%	1495.01
	Total Composite rate per Sq. m.			<u>1234.51</u>
				1234.50

c) Rough glazed strip tiles

1. Labour

Same as in item (a) above

Contractor's profit & overhead

Total Labour rate

2812.50

20% 562.50

337.50**337.50**

2. Material

Tiles, facing strips - rough glazed.

Cement OPC

10.50 Sq. m. @ 700.00

25.00 Kg. @ 10.50

7350.00

262.50

7612.50

Water Charges

1.5% 114.20

7726.70

3. Scaffolding and Sundries

Total of 2 & 3

10% 281.25

8007.95

Contractor's profit & overhead

20% 1601.59

1298.45**1298.45****Item No. 15-46****Extra over respective payable items of ground floor**

a) For first floor

10%

b) For every additional floor above first floor

7.5%**Sq.m. Item No. 15-47-1****Providing and fixing partitions upto ceiling height consisting of G.I frame and required board: 75 mm overall thickness of partition with 12.5 mm thick Plain Gypsum Board**

Details of Cost for 6.00 x 3.65 = 21.9 Sq.M (Partition Panel)

1. Labour

Carpenter

Painter

Labourer

72.00 Hrs @ 125.00

8.76 Hrs @ 125.00

56.00 Hrs @ 87.50

9000.00

1095.00

4900.00

14995.00

Contractor's profit & overhead

20% 2999.00

821.64**821.65**

Total Labour rate

2. Material

12.5 mm thick Plain Gypsum Board on Both Sides

50mm floor and ceiling Channel = 2 x 6

43.80 Sq. m. @ 270.00

12.00 R.m @ 180.00

11826.00

2160.00

48mm Stud - 72x34x36x0.5 mm

 $(6/0.61)+1 = 11 \times 3.65 = 40.15$

40.15 R.m @ 60.00

2409.00

Unit	Description	Component Cost			Unit Rate
		(Rs)			(Rs)
	20mm Long Screws	374.00	Nos @	3.00	1122.00
	$[(3.65/0.3)+1] \times 11 \times 2 =$	289.67			
	$[(6.00/0.30)+1] \times 2 \times 2 =$	84.00			
		374			
	Dash hold fastener 12.5mm dia, 40mm long with 6mm dia Bolt - $[(6.00/0.61)+1] \times 2 = 22$	22.00	Each @	25.00	550.00
	Rawal Plugs $[(3.65/0.45)+1] \times 2 = 18$	18.00	Each @	4.31	77.58
	Plaster of Paris	19.25	kgs @	20.00	385.00
	Glue	4.80	kgs @	160.00	768.00
	Paper Tape (120 meter Roll)	1.00	Roll @	55.00	55.00
	Plastic Emulsion Primer $(36/100) \times 21.90 = 7.88$ Ltr	7.88	liter @	175.00	1379.00
	Galvanised Steel Washers, Nuts & Bolts - 6mm dia and 25mm long	45.00	Nos @	2.00	90.00
					20821.58
	3. Scaffolding			5%	1041.08
	Total of 2 & 3				21862.66
	Contractor's profit & overhead			20%	4372.53
	Total Composite rate per Sq. m.				2019.60
					2019.60

Sq.m.

Item No. 15-48-1

Providing and fixing of 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") UV Stabilized Fiber Glass Reinforced Plastic Sheet roofing upto required pitch i/c fixing J or L hooks, bolts & nuts 8 mm dia. as specified

Details of Cost for Area of Roof - $2 \times 18.09 \times 5.1 = 184.518$ Sq.M

1. Labour

Welder / Fixer	10.40	Hrs @	125.00	1300.00
Carpenter	124.00	Hrs @	125.00	15500.00
Labourer	124.00	Hrs @	87.50	10850.00
				<u>27650.00</u>
Contractor's profit & overhead			20%	5530.00
Total Labour rate				<u>179.82</u>

179.80

2. Material

UV Stabilized 2mm thick corrugated FRP Sheet i/c 15% for Addition of Overlap and Extra on sides

G.I Seam Bolts & Nuts 60 cm C-C, zig zag i.e. 30cm center-center straight, Breadth is 5.1 meter
No. of Bolts in One Lap - $5.1/0.3 = 17$ Nos
 $2 \times 26(\text{laps}) \times 17 \text{ Nos} = 884$ Nos

Bolts & Nuts	884.00	Nos @	12.00	10608.00
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G.I J or L hooks of 8mm dia

No. of purlins to be used 5 on either side - $2 \times 5 \times 27$
No. of Sheets x 23 nos. of Bolts in each sheet = 810 Nos.

G.I J or L hooks - 8mm dia	810.00	Nos @	20.00	16200.00
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Limpet Washers (Sum of Seam and J bolts = $884+810$)	1694.00	Nos @	1.00	1694.00
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Bitumen Washers	1694.00	Nos @	2.00	3388.00
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Sundries			2%	637.80
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350821.35

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	3. Scaffolding	5%	17541.07
	Total of 2 & 3		368362.42
	Contractor's profit & overhead	20%	73672.48
	Total Composite rate per Sq. m.		2575.44
			2575.45

Sq.m. Item No. 15-49**Roofing Sheets and Window Shades**

- a) **Providing and fixing of 2 mm thick Flat UV Stabilized Fiber Glass Reinforced Plastic Sheet roofing upto required pitch i/c fixing J or L hooks, bolts & nuts 8 mm dia. as specified**

Details of Cost for Area of Roof - 2 x 18.09 x 5.1 = 184.518 Sq.M

1. Labour

Welder / Fixer	10.40	Hrs	@	125.00	1300.00
Carpenter	124.00	Hrs	@	125.00	15500.00
Labourer	124.00	Hrs	@	87.50	10850.00
					<u>27650.00</u>
Contractor's profit & overhead				20%	5530.00
Total Labour rate					<u>179.82</u>

179.80**2. Material**

UV Stabilized 2mm thick Plain FRP Sheet i/c 15% for Addition of Overlap and Extra on sides	212.20	Sq. m.	@	1200.00	254,635
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G.I Seam Bolts & Nuts 60 cm C-C, zig zag i.e.
30cm center-center straight, Breadth is 5.1 meter
No. of Bolts in One Lap - $5.1/0.3 = 17$ Nos
2x26(laps) x 17 Nos= 884 Nos

Bolts & Nuts	884.00	Nos	@	12.00	10608.00
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G.I J or L hooks of 8mm dia

No. of purlins to be used 5 on either side - 2x5x27
No. of Sheets x 23 nos. of Bolts in each sheet = 810 Nos.

G.I J or L hooks - 8mm dia	810.00	Nos	@	20.00	16200.00
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Limpet Washers (Sum of Seam and J bolts = 884+810)	1694.00	Nos	@	1.00	1694.00
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Bitumen Washers	1694.00	Nos	@	2.00	3388.00
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Sundries				2%	637.80
					<u>287162.64</u>

3. Scaffolding				5%	14358.13
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Total of 2 & 3					<u>301520.77</u>
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Contractor's profit & overhead				20%	60304.15
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Total Composite rate per Sq. m.					<u>2140.74</u>
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2140.75

- Sq.m. b) Providing and fixing of Heat Resistant Clear Poly Carbonate roof and window Shades in any colour and size i/c fixing MS frame and Supports as specified.**

Details of Cost for Area of Roof - 10 Sq. M

1. Labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Welder / Fixer	8.00	Hrs @ 125.00	1000.00
	Carpenter	16.00	Hrs @ 125.00	2000.00
	Labourer	24.00	Hrs @ 87.50	2100.00
				<u>5100.00</u>
	Contractor's profit & overhead		20%	1020.00
	Total Labour rate			<u>612.00</u> 612.00
2. Material				
	Poly Carbonate corrugated sheet complete with supporting Frame	10.00	Sq. m. @ 2690.00	26,900
	Sundries		2%	<u>538.00</u>
				27438.00
3. Scaffolding				
			5%	1371.90
	Total of 2 & 3			<u>28809.90</u>
	Contractor's profit & overhead		20%	5761.98
	Total Composite rate per Sq. m.			<u>3825.00</u> 3825.00

Item No.15-50-1

P/L tiled false ceiling of size 595x595 mm metal grid of hot dipped galvanized steel sections.. GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm with 20% area perforations

Details of Cost for : 100.00 Sqm

1. Labour				
	Carpenter	112.00	Hrs @ 125.00	14000.00
	Labourer	112.00	Hrs @ 87.50	9800.00
				<u>23800.00</u>
	Contractor's profit & overhead		20%	4760.00
	Total Labour rate			<u>285.60</u> 285.60
2. Material				
	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm a	147.00	Sqm	4000.00
				588,000
	Main T ceiling sections 24x38x0.3 mm (3 metre long)	72.00	each	561.00
				40,392
	Perimeter wall angle 21x21x0.3 mm (3 metre long)	72.00	each	354.00
				25,488
	Intermediate cross T-Section 24x25x0.30mm (1.2 mtrs long)	72.00	each	216.00
				15,552
	Intermediate cross T-Section 24x25x0.30mm (0.6 mtrs long)	72.00	each	102.00
				7,344
	Hanger rod 4 mm thick	187.95	each	21.00
				3,947
	Adjustment clip	89.28	each	18.00
				1,607
	Soffit cleat		each	9.00
				-
	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	28.00	each	144.00
				4,032
	Sundries		2%	<u>13,727</u>
				752,735
3. Scaffolding				
			5%	37,637

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total of 2 & 3	790,372	
	Contractor's profit & overhead	20%	158,074
	Total Composite rate per Sq. m.	5,140	5140.15

Item No.15-51

Sq.m. **Providing and laying 3/4"(19mm) thick Granite polished slab including nosing on Kitchen and other tops of approved design over 3/8" thick base cement sand mortar 1:3 including setting the tiles with portland cement slurry over cement sand jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & mortar cost.**

a) Granite black (local)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Granite black (local)	10.15	Sq.m.	@	5918.00	60067.70
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				5.0%	3074.55
					64565.16

3. Sundries

Total of 2 & 3				1%	645.65
Contractor's profit & overhead				20%	13042.16
Total Composite rate					7825.30

7825.30**b) Granite black (China)**

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Granite black (China)	10.15	Sq.m.	@	550.00	5582.50
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				5.0%	350.25
					7355.66

3. Sundries

Total of 2 & 3				1%	73.56
Contractor's profit & overhead				20%	1485.84
Total Composite rate					1384.01

1384.00**c) Granite Red Rubi (Indian)**

Detail of Cost for 10 Sq.m.

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
1. Labour						
	Tile layer	16.00	Hrs @	130	2080	
	Labourer	28.00	Hrs @	88	2450	
	Bahishti	2.00	Hrs @	88	175	
	Mistri	2.00	Hrs @	110	220	
	Total				4925	
	Contractor's profit & overhead			20%	985	
	Total Labour rate				591	591.00
2. Material						
	Granite Red Rubi (Indian)	10.15	Sq.m. @	550.00	5582.50	
	Cement - white	3.50	Kg. @	15.00	52.50	
	Cement OPC	55.00	Kg. @	10.50	577.50	
	Cement mortar 1 :3	0.13	Cu.m. @	6099.30	792.91	
	Water charges			5.0%	350.25	
					7355.66	
	3. Sundries			1%	73.56	
	Total of 2 & 3				7429.22	
	Contractor's profit & overhead			20%	1485.84	
	Total Composite rate				1384.01	1384.00
d) Granite Red chilli (Mylasian)						
Detail of Cost for 10 Sq.m.						
1. Labour						
	Tile layer	16.00	Hrs @	130	2080	
	Labourer	28.00	Hrs @	88	2450	
	Bahishti	2.00	Hrs @	88	175	
	Mistri	2.00	Hrs @	110	220	
	Total				4925	
	Contractor's profit & overhead			20%	985	
	Total Labour rate				591	591.00
2. Material						
	Granite Red chilli (Mylasian)	10.15	Sq.m. @	525.00	5328.75	
	Cement - white	3.50	Kg. @	15.00	52.50	
	Cement OPC	55.00	Kg. @	10.50	577.50	
	Cement mortar 1 :3	0.13	Cu.m. @	6099.30	792.91	
	Water charges			5.0%	337.60	
					7089.26	
	3. Sundries			1%	70.89	
	Total of 2 & 3				7160.15	
	Contractor's profit & overhead			20%	1432.03	
	Total Composite rate				1351.72	1351.70
e) Granite Galaxy Black (Indian)						
Detail of Cost for 10 Sq.m.						
1. Labour						
	Tile layer	16.00	Hrs @	130	2080	
	Labourer	28.00	Hrs @	88	2450	
	Bahishti	2.00	Hrs @	88	175	
	Mistri	2.00	Hrs @	110	220	
	Total				4925	
	Contractor's profit & overhead			20%	985	
	Total Labour rate				591	591.00
2. Material						
	Granite Galaxy Black (Indian)	10.15	Sq.m. @	135.00	1370.25	

Unit	Description	Component Cost			Unit Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Cement - white	3.50	Kg. @	15.00	52.50
	Cement OPC	55.00	Kg. @	10.50	577.50
	Cement mortar 1 :3	0.13	Cu.m. @	6099.30	792.91
	Water charges			5.0%	139.65
					<u>2932.81</u>
	3. Sundries			1%	29.33
	Total of 2 & 3				2962.14
	Contractor's profit & overhead			20%	592.43
	Total Composite rate				<u>847.96</u>
					847.95
f)	Granite baltic brown (Mylasian)				
	Detail of Cost for 10 Sq.m.				
	1. Labour				
	Tile layer	16.00	Hrs @	130	2080
	Labourer	28.00	Hrs @	88	2450
	Bahishti	2.00	Hrs @	88	175
	Mistri	2.00	Hrs @	110	220
	Total				<u>4925</u>
	Contractor's profit & overhead			20%	985
	Total Labour rate				<u>591</u>
					591.00
	2. Material				
	Granite baltic brown (Mylasian)	10.15	Sq.m. @	145.00	1471.75
	Cement - white	3.50	Kg. @	15.00	52.50
	Cement OPC	55.00	Kg. @	10.50	577.50
	Cement mortar 1 :3	0.13	Cu.m. @	6099.30	792.91
	Water charges			5.0%	144.75
					<u>3039.41</u>
	3. Sundries			1%	30.39
	Total of 2 & 3				3069.80
	Contractor's profit & overhead			20%	613.96
	Total Composite rate				<u>860.88</u>
					860.90
g)	Granite camel brown (Mylasian)				
	Detail of Cost for 10 Sq.m.				
	1. Labour				
	Tile layer	16.00	Hrs @	130	2080
	Labourer	28.00	Hrs @	88	2450
	Bahishti	2.00	Hrs @	88	175
	Mistri	2.00	Hrs @	110	220
	Total				<u>4925</u>
	Contractor's profit & overhead			20%	985
	Total Labour rate				<u>591</u>
					591.00
	2. Material				
	Granite camel brown (Mylasian)	10.15	Sq.m. @	525.00	5328.75
	Cement - white	3.50	Kg. @	15.00	52.50
	Cement OPC	55.00	Kg. @	10.50	577.50
	Cement mortar 1 :3	0.13	Cu.m. @	6099.30	792.91
	Water charges			5.0%	337.60
					<u>7089.26</u>
	3. Sundries			1%	70.89
	Total of 2 & 3				7160.15
	Contractor's profit & overhead			20%	1432.03
	Total Composite rate				<u>1351.72</u>
					1351.70
h)	Granite raw-silk (Mylasian)				

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Granite raw-silk (Mylasian)	10.15	Sq.m.	@	135.00	1370.25
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				5.0%	139.65
					2932.81

3. Sundries

				1%	29.33
Total of 2 & 3					2962.14
Contractor's profit & overhead				20%	592.43
Total Composite rate					847.96

847.95**i) Granite blue per (Mylasian)**

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Granite blue per (Mylasian)	10.15	Sq.m.	@	145.00	1471.75
Cement - white	3.50	Kg.	@	15.00	52.50
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				5.0%	144.75
					3039.41

3. Sundries

				1%	30.39
Total of 2 & 3					3069.80
Contractor's profit & overhead				20%	613.96
Total Composite rate					860.88

860.90**j) Extra for Wall Cladding using S.S studs or other anchorage techniques****15%****Item No. 15-52**

Sq.m. Providing and applying 0.75" (15 mm) thick cement sand plaster with Putzmeister plastering machine on walls, columns and slabs finished smooth in basement, plinth and first floor.

Detail of cost for 10 Sq.m.

Mortar	107.6 x 3/4 x 1/12	6.73	Cu.ft.
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Wastage 10%	0.67	Cu.ft.	
		7.40	Cu.ft.	
		0.21	Cu.m.	
a)	1 : 2			
	1. Labour			
	Mason	3.30	Hrs @ 125.00	412.50
	Labourer	3.30	Hrs @ 87.50	288.75
				<u>701.25</u>
	Contractor's profit & overhead		20%	140.25
	Total Labour rate			<u>84.15</u>
				84.15
	2. Material			
	Mortar	0.21	Cu.m. @ 8442.75	1772.98
	Water Charges		1.5%	26.59
				<u>1799.57</u>
	3. Plant & Equipment			
	Putzmeister plastering machine	1.05	Hrs @ 150.00	157.50
	4. Scaffolding and Sundries		5%	<u>132.92</u>
	Total of 2, 3 & 4			2089.99
	Contractor's profit & overhead		20%	418.00
	Total			<u>2507.99</u>
	Total Composite rate per Sq. m.			334.95
				334.95
b)	1 : 3			
	1. Labour			
	Same as in item 15 - 2 above			1206.25
	Contractor's profit & overhead		20%	241.25
	Total Labour rate			<u>144.75</u>
				144.75
	2. Material			
	Mortar	0.21	Cu.m. @ 6099.30	1280.85
	Water Charges		1.5%	19.21
				<u>1300.07</u>
	3. Plant & Equipment			
	Putzmeister plastering machine	1.05	Hrs @ 150.00	157.50
	4. Scaffolding and Sundries		5%	<u>133.19</u>
	Total of 2, 3 & 4			1590.76
	Contractor's profit & overhead		20%	318.15
	Total			<u>1908.91</u>
	Total Composite rate per Sq. m.			335.64
				335.65
c)	1 : 4			
	1. Labour			
	Same as in item 15 - 2 above			1206.25
	Contractor's profit & overhead		20%	241.25
	Total Labour rate			<u>144.75</u>
				144.75
	2. Material			
	Mortar	0.21	Cu.m. @ 4839.30	1016.25
	Water Charges		1.5%	15.24
				<u>1031.50</u>
	3. Plant & Equipment			
	Putzmeister plastering machine	1.05	Hrs @ 150.00	157.50
	4. Scaffolding and Sundries		5%	<u>119.76</u>
	Total of 2, 3 & 4			1308.76
	Contractor's profit & overhead		20%	261.75
	Total			<u>1570.51</u>
	Total Composite rate per Sq. m.			301.80
				301.80

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
d) 1 : 5			
1. Labour			
Same as in item 15 - 2 above		1206.25	
Contractor's profit & overhead	20%	241.25	
Total Labour rate		<u>144.75</u>	144.75
2. Material			
Mortar	0.21 Cu.m. @	4104.30	861.90
Water Charges	1.5%		<u>12.93</u>
			874.83
3. Plant & Equipment			
Putzmeister plastering machine	1.05 Hrs @	150.00	157.50
4. Scaffolding and Sundries	5%		<u>111.93</u>
Total of 2, 3 & 4			1144.26
Contractor's profit & overhead	20%		<u>228.85</u>
Total			1373.11
Total Composite rate per Sq. m.			<u>282.06</u>
			282.05
e) 1 : 6			
1. Labour			
Same as in item 15 - 2 above		1206.25	
Contractor's profit & overhead	20%	241.25	
Total Labour rate		<u>144.75</u>	144.75
2. Material			
Mortar	0.21 Cu.m. @	3579.30	751.65
Water Charges	1.5%		<u>11.27</u>
			762.93
3. Plant & Equipment			
Putzmeister plastering machine	1.05 Hrs @	150.00	157.50
4. Scaffolding and Sundries	5%		<u>106.33</u>
Total of 2, 3 & 4			1026.76
Contractor's profit & overhead	20%		<u>205.35</u>
Total Composite rate per Sq. m.			<u>267.96</u>
			267.95

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 15-53-1**Sq.m.**

Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including:

a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.

b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. c) The fastening brackets of Aluminium/MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.

Analysis for 4x8 ft =32 sft

1. Labour

Mason	4.00	Hrs	@	125.00	500.00
Labourer	16.00	Hrs	@	87.50	1400.00
Technician	8.00	Hrs	@	87.50	700.00
Fitter	8.00	Hrs	@	87.50	700.00

Contractor's profit & overhead

20%

660.00

Total Labour rate

222.22

222.20

2. Material

Weather Sealant - Non Staining	0.22	Litre	@	1000.00	221.24
Weather Sealant - Normal	0.27	Litre	@	600.00	159.29
Anchor Fastner	4.00	Nos.	@	250.00	1000.00
SS Bolt with Washer of Sizes for Structural Glazing	4.00	Nos.	@	70.00	280.00
4 mm thick ACP including 5% wastage	3.12	Sq.m	@	2400.00	7484.40
Protective Tape	3.10	RM	@	50.00	154.87
Baker Rod Metre	1.68	RM	@	22.96	38.65
GI Flashing - 1.2 mm Thick	1.35	Kg	@	130.00	175.08
Aluminium Alloy Brackets	3.37	Kg	@	200.00	673.40

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	EPDM Gasket in Kg	0.24 Kg @ 300.00	70.71
	Total		10257.64
	3. Scaffolding and Sundries	5%	512.88
	Total of 2 & 3		
	Contractor's profit & overhead	20%	2154.11
	Total Composite rate per Sq. m.		4648.77
			4648.75

Item No. 15-54

Cu.m. a) Extra for Plaster of height above 12 ft but upto 24 ft on Ground Floor only

Extra for Plaster on walls or Ceiling with height above 12 ft but upto 24 ft

15%

Item No.15-54

Sq.m. Providing and Fixing 3/4"(19mm) thick Sand Stone (Gadab Stone) on interior and exterior wall and cladding including with cement sand mortar 1:3 complete in all respects.

a) Sand Stone (Gadab Stone)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Gadab Stone	10.15	Sq.m.	@	1500.00	15225.00
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	248.93
					16844.33

3. Sundries and Shuttering

Total of 2 & 3				5%	842.22
Contractor's profit & overhead				20%	3537.31
Total Composite rate					2122.39

2122.40

Item No.15-56

Sq.m. Providing and Fixing 3/4"(19mm) thick Sand Stone (Zhob Stone) on interior and exterior wall and cladding including with cement sand mortar 1:3 complete in all respects.

a) Sand Stone (Zhob Stone)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Mistri	2.00 Hrs @ 110		220	
Total			4925	
Contractor's profit & overhead		20%	985	
Total Labour rate			591	591.00
2. Material				
Youb Stone	10.15 Sq.m. @ 1000.00		10150.00	
Cement OPC	55.00 Kg. @ 10.50		577.50	
Cement mortar 1 :3	0.13 Cu.m. @ 6099.30		792.91	
Water charges		1.5%	172.80	
			11693.21	
3. Sundries and Shuttering		5%	584.66	
Total of 2 & 3			12277.87	
Contractor's profit & overhead		20%	2455.57	
Total Composite rate			1473.34	1473.35

Item No.15-56-1

Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.

Analysis for 4x8 ft =32 sft

1. Labour

Mason	64.00	Hrs @	125.00	8000.00
Labourer	128.00	Hrs @	87.50	11200.00
Technician	64.00	Hrs @	87.50	5600.00
Fitter	64.00	Hrs @	87.50	5600.00

Contractor's profit & overhead

20% 6080.00

Total Labour rate 2047.14

2047.15**2. Material**

Double glazed wall cladding	1.00	Sq.m @	19368.00	19368.00
				19368.00

3. Scaffolding and Sundries

5% 968.40

Total of 2 & 3

Contractor's profit & overhead 20% 4067.28

Total Composite rate per Sq. m. 28497.96

28497.95**Item No.15-57**

Sq.m. Providing and Fixing Face work with brick tiles (Gutka) on interior, exterior wall with cement sand mortar 1:3 includings ties and scaffolding complete in all respects.

a) 2"x 2" x 9"

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Gutka (2"x2"x9")	839.86	Nos.	@	18.00	15117.48
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	247.32

16735.21

3. Sundries and Scaffolding

10% 1673.52

Total of 2 & 3 18408.73

Contractor's profit & overhead 20% 3681.75

Total Composite rate 2209.05

2209.05**b) 3"x 3" x 9"**

Detail of Cost for 10 Sq.m.

1. Labour

Tile layer	16.00	Hrs	@	130	2080
Labourer	28.00	Hrs	@	88	2450
Bahishti	2.00	Hrs	@	88	175
Mistri	2.00	Hrs	@	110	220
Total					4925
Contractor's profit & overhead				20%	985
Total Labour rate					591

591.00

2. Material

Gutka (3"x3"x9")	534.21	Nos.	@	25.00	13355.25
Cement OPC	55.00	Kg.	@	10.50	577.50
Cement mortar 1 :3	0.13	Cu.m.	@	6099.30	792.91
Water charges				1.5%	220.89

14946.55

3. Sundries and Shuttering

10% 1494.65

Total of 2 & 3 16441.20

Contractor's profit & overhead 20% 3288.24

Total Composite rate 1972.94

1972.95**Item No. 15-58**

Providing and fixing Gypsum Board false ceiling of approved size and texture consisting of imported powder coated aluminum angle and tee framing (size 1" x 1") hunged by approved suspension system, including provision of extra framing for lights fittings, A/C diffusers and around columns, etc, complete in all respects as directed by the Engineer.

Detail of Cost for 10 Sq.m.

Sq.m. a) 1/4" (6.4 mm) thick laminated gypsum board

1. Labour

Carpenter	8.00	Hrs	@	125.00	1000.00
Contractor's profit & overhead				20%	200.00
Total Labour rate					120.00

120.00

2. Material

Laminated Gypsum Board with suspension System (1/4")	10.50	Sq.m.	@	484.20	5084.10
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
		5084.10	
	3. Sundries	5%	50.00
	Total of 1,2, & 3		6134.10
	Contractor's profit & overhead	20%	1226.82
	Total		7360.92
	Total Composite rate per Sq. m.		736.09
			736.10

Sq.m. b) 1/2" thick laminated gypsum board

1. Labour							
	Carpenter	8.00	Hrs @	125.00	1000.00		
	Contractor's profit & overhead			20%	200.00		
	Total Labour rate				120.00		120.00
2. Material							
	Laminated Gypsum Board with suspension System (1/2")	10.50	Sq.m. @	538.00	5649.00		
					5649.00		
	3. Sundries			5%	50.00		
	Total of 1,2, & 3				6699.00		
	Contractor's profit & overhead			20%	1339.80		
	Total				8038.80		
	Total Composite rate per Sq. m.				803.88		803.90

Item No. 15-59

Providing and fixing Gypsum Board false ceiling of approved size and shape changed by approved suspension system, including provision of extra framing for lights fittings, A/C diffusers and around columns, etc, complete in all respects as directed by the Engineer.

Sq.m. a. 1/2"-3/4"(13 mm) thick 2' x 2' gypsum board

Detail of Cost for 10 Sq.m.							
1. Labour							
	Carpenter	8.00	Hrs @	125.00	1000.00		
	Contractor's profit & overhead			20%	200.00		
	Total Labour rate				120.00		120.00
2. Material							
	Gypsum Board with suspension System (1/2-3/4")	10.50	Sq.m. @	538.00	5649.00		
					5649.00		
	3. Sundries			5%	50.00		
	Total of 1,2, & 3				6699.00		
	Contractor's profit & overhead			20%	1339.80		
	Total				8038.80		
	Total Composite rate per Sq. m.				803.88		803.90

Item No.15-60**Sq.m. Providing and fixing Corian any size on tops of approved design in any color, shade and pattern in ground floor.****a) Plain**

Detail of Cost for 10 Sq.m.							
1. Labour							
	Mason	16.00	Hrs @	125.00	2000		
	Mistri	2.00	Hrs @	110	220		
	Total				2220		
	Contractor's profit & overhead			20%	444		
	Total Labour rate				266		266.40
2. Material							
	Corian (Plain)	10.15	Sq.m. @	6994.00	70989		
					70989.10		
	3. Sundries			1%	709.89		

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total of 2 & 3		71698.99	
Contractor's profit & overhead	20%	14339.80	
Total Composite rate		<u>8603.88</u>	8603.90

a) Textured

Detail of Cost for 10 Sq.m.

1. Labour

Mason	16.00	Hrs	@	125.00	2000	
Mistri	2.00	Hrs	@	110	<u>220</u>	
Total					2220	
Contractor's profit & overhead				20%	<u>444</u>	
Total Labour rate					266	266.40

2. Material

Corian (Textured)	10.15	Sq.m.	@	10222.00	<u>103753</u>	
					103753.30	
3. Sundries				1%	<u>1037.53</u>	
Total of 2 & 3					104790.83	
Contractor's profit & overhead				20%	<u>20958.17</u>	
Total Composite rate					12574.90	12574.90

Item No.15-61

Sq.m. **Providing and fixing PVC wall Panelling 9" wide and 10 ft long including all accessories of approved design in any color, shade and pattern in ground floor.**

Detail of Cost for 10 Sq.m.

1. Labour

Carpenter special	16.00	Hrs	@	125.00	2000	
Mistri	2.00	Hrs	@	110	<u>220</u>	
Total					2220	
Contractor's profit & overhead				20%	<u>444</u>	
Total Labour rate					266	266.40

2. Material

PVC wall Panelling 9" Wide and 10 ft length including 5% waastage	7.35	Sq.m.	@	675.00	<u>4961</u>	
					4961.25	
3. Sundries				1%	<u>49.61</u>	
Total of 2 & 3					5010.86	
Contractor's profit & overhead				20%	<u>1002.17</u>	
Total Composite rate					601.30	601.30

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No.16-1

Providing and fixing plain wood work sawn, wrought planed in repair and replacement work including cost of nails and screws.

Detail of Cost for one cu.ft. 1.15 Cu.ft.

Cu.m. a) Deodar wood

1. Labour

Carpenter	5.00	Hrs	@	125.00	625.00
Skilled worker	2.00	Hrs	@	125.00	250.00
Total					875.00
Contractor's profit & overhead				20%	175.00
Total Labour rate					37075.50

37,076

2. Materials

Wood - deodar 1st class	1.15	Cu.ft.	@	5000.00	5750.00
Sawing charges	1.15	Cu.ft.	@	87.50	100.63
Nails & screws				5%	292.53
Iron mongery				8%	468.05
Glue				5%	292.53
					243770.97
Contractor's profit & overhead				20%	48754.19
Total Composite rate					329600.67

329,601**Cu.m. b) Shisham wood**

Shisham wood + 20% wastage 1.20 Cu.ft.

1. Labour

Carpenter	8.00	Hrs	@	125.00	1000.00
Skilled worker	4.00	Hrs	@	125.00	500.00
Total					1500.00
Contractor's profit & overhead				20%	300.00
Total Labour rate					63558.00

63,558

2. Materials

Wood - Shisham	1.20	Cu.ft.	@	2000.00	2400.00
Sawing charges	1.20	Cu.ft.	@	87.50	105.00
Nails & screws				2%	50.10
Iron mongery				5%	125.25
Glue				1%	25.05
					2705.40
Contractor's profit & overhead				20%	541.08
Total Composite rate					178191.21

178,191**Cu.m. c) Kail wood**

Kail wood + 15% wastage 1.15 Cu.ft.

1. Labour

Same as in item 16-1 (a)					37075.50
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37,076

2. Materials

Wood - Kail 1st class	1.15	Cu.ft.	@	3500.00	4025.00
Sawing charges	1.15	Cu.ft.	@	87.50	100.63
Nails & screws				2%	82.51
Iron mongery				3%	123.77
Glue				1%	41.26
					4373.16
Contractor's profit & overhead				20%	874.63
Total Composite rate					222375.14

222,375

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-2

Providing plain wood work for regulation carries or needles including sawing, planing, wroughting, also providing & fixing steel strip end rods.

Cu.m. a) Deodar wood

Deodar wood + 15% wastage	1.15	Cu.ft.			
1. Labour					
Carpenter	2.50	Hrs	@	125.00	312.50
Skilled worker	1.50	Hrs	@	125.00	187.50
Total					500.00
Contractor's profit & overhead				20%	100.00
Total Labour rate					18422.61
					18,423
2. Materials					
Wood - deodar 1st class	1.15	Cu.ft.	@	5000.00	5750.00
Sawing charges	1.15	Cu.ft.	@	87.50	100.63
Steel strip end rods				3%	175.52
					6026.14
Contractor's profit & overhead				20%	1205.23
Total Composite rate					273762.37
					273,762

Cu.m. b) Shisham wood

Shisham wood + 20% wastage	1.20	Cu.ft.			
1. Labour					
Carpenter	2.50	Hrs	@	125.00	312.50
Skilled worker	1.50	Hrs	@	125.00	187.50
Total					500.00
Contractor's profit & overhead				20%	100.00
Total Labour rate					21186.00
					21,186
2. Materials					
Wood - Shisham	1.20	Cu.ft.	@	2000.00	2400.00
Sawing charges	1.20	Cu.ft.	@	87.50	105.00
Steel strip end rods				3%	75.15
					2580.15
Contractor's profit & overhead				20%	516.03
Total Composite rate					130512.12
					130,512

Cu.m. c) Kail wood

Kail wood + 15% wastage	1.15	Cu.ft.			
1. Labour					
Same as in item 16-2 (a)					18422.60
					18,423
2. Materials					
Wood - Kail 1st class	1.15	Cu.ft.	@	3500.00	4025.00
Sawing charges	1.15	Cu.ft.	@	87.50	100.63
Steel strip end rods				3%	123.77
					4249.39
Contractor's profit & overhead				20%	849.88
Total Composite rate					198477.91
					198,478

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-3

Providing and fixing First class wood frames of required size for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis (Jafri) work.

Cu.m. a) Deodar wood frame

Detail of Cost for 1.53 Cu.ft.

Taking a panelled door 4' x 7' with frame 2.5" x 5" single leaf (with rebate for fly proof shutters)

Quantity of frame only	2 x 7.0 'x 2.5" x 5"x1/144	1.22	Cu.ft.
	4' x 2.5" x 5" x 1/144	0.35	Cu.ft.
Wastage	20%	0.31	Cu.ft.
		<u>1.88</u>	Cu.ft.

1. Labour

Carpenter	1.88	Hrs @	125.00	235.00
Labourer	1.50	Hrs @	87.50	131.25
Total				<u>366.25</u>
Contractor's profit & overhead			20%	73.25
Total Labour rate				<u>9947.91</u>

9,948

2. Materials

Wood - deodar 1st class	1.88	Cu.ft. @	5000.00	9400.00
Sawing charges	1.88	Cu.ft. @	87.50	164.50
Glue	0.05	Kg. @	160.00	8.00
				<u>9572.50</u>
Contractor's profit & overhead			20%	1914.50
Total Composite rate				<u>275049.85</u>

275,050**Cu.m. b) Shisham wood frame**

1. Labour

Carpenter	3.00	Hrs @	125.00	375.00
Labourer	2.00	Hrs @	87.50	175.00
Total				<u>550.00</u>
Contractor's profit & overhead			20%	110.00
Total Labour rate				<u>14938.85</u>

14,939

2. Materials

Wood - Shisham	1.88	Cu.ft. @	2000.00	3750.00
Sawing charges	1.88	Cu.ft. @	87.50	164.06
Glue	0.05	Kg. @	160.00	8.00
				<u>3922.06</u>
Contractor's profit & overhead			20%	784.41
Total Composite rate				<u>123556.91</u>

123,557**Item No. 16-4**

Providing and fixing First class wood built in frame of required size with 1/2" (13mm) thick beading as stopper of the same for doors, windows, ventilators, windows, shelves and partitions.

C.M. a) Deodar wood frame

Detail of cost for 3.23 Cu.ft.

Considering a panelled door- cum-windows with shelf on top 3'-5" x 7' or doors & 3'-3" x 5'-6" for window cum shelf of a kitchen

The following sizes of scantling and openings are taken into account:

Doors:

One jamb and head frame	2" x 4"
Other jambs & common frame of windows, shelf and door(main) for door and window.	2" x 4"
For door and shelf	2" x 12"

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Stopper beading (jamb & head)	2.5"x1.5"		
	Overall size including common frame of window & shelf	3'-5" x 7'		
	Clear opening	3' x 6'-10"		
	Windows:			
	One jamb common frame as mentioned under door (main)	2" x 4"		
	Other jamb frame	2" x 4"		
	Sill frame	2" x 4"		
	Head frame common to shelf main	2" x 12"		
	Stopper beading on jamb, head and sills	2.5" x 1.5"		
	Overall size	3'-5" x 3'-8"		
	Clear opening	3'-0" x 3'-3"		
	Shelf:			
	One jamb common frame as mentioned under door (main)	2" x 12"		
	Other jamb frame	2" x 12"		
	Head and sill frame	2" x 12"		
	Stopper beading on jamb, head and sills	2.5" x 1.5"		
	Overall size	3'-5" x 2'-0"		
	Clear opening	3'-0"x1'-7"		
	Quantity of wood:			
	One jamb frame 7.2 x 2" x 4"	0.398	Cu.ft	
	Head frame 3'-1" x 2" x 4"	0.171	Cu.ft	
	Common jamb frame 5'-0 x 2" x 4"	0.278	Cu.ft	
	2'-0 x 2" x 12"	0.333	Cu.ft	
	Stopper bead for 2 jambs 2x 6'-10"x 2.5"x 0.5"	0.119	Cu.ft	
	Stopper beads for head 3' x 2.5" x 0.5"	0.026	Cu.ft	
		<u>1.325</u>	Cu.ft	
	Window:			
	One jamb common to door			
	Other jamb frame 3'-6" x 2" x 4"	0.194	Cu.ft	
	Head frame to shelf sill frame = 3'-1"x 2"x4"	0.171	Cu.ft	
	Stopper bead for jambs = 2x 3'-4"x 2.5"x 0.5"	0.058	Cu.ft	
	Head & sills 2 x 3'-0 x 2.5" x 0.5"	0.052	Cu.ft	
		<u>0.475</u>	Cu.ft	
	Shelf:			
	One jamb frame common to door			
	Other jamb frame 2'-0" x 2" x 12"	0.333	Cu.ft	
	Head and sill frame	1.027	Cu.ft	
	Stopper beads for jambs =2x 1'-8"x 2.5"x 0.5"	0.029	Cu.ft	
	Head & sills 2 x 3'-0" x 2.5" x 0.5"	0.052	Cu.ft	
		<u>1.441</u>	Cu.ft	
	Total for doors, windows & shelf	3.242	Cu.ft	
	Add 30% wastage	0.972	Cu.ft	
		<u>4.214</u>	Cu.ft	
	1. Labour			
	Carpenter	5.76	Hrs @ 125.00	720.00
	Labourer	0.56	Hrs @ 87.50	49.00
	Total			<u>769.00</u>
	Contractor's profit & overhead		20%	153.80
	Total Labour rate			<u>10087.95</u>
				10,088
	2. Materials			
	Wood - deodar 1st class	4.21	Cu.ft. @ 5000.00	21069.98
	Sawing charges	4.21	Cu.ft. @ 87.50	368.72
	Glue	0.17	Kg. @ 160.00	27.20
	Nail of all sizes	0.11	Kg. @ 90.00	9.90
				<u>21475.80</u>
	Contractor's profit & overhead		20%	4295.16
	Total Composite rate			<u>291813.21</u>
				291,813

Cu.m. b) Kail wood frame

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
1. Labour				
Carpenter	5.76 Hrs @	125.00	720.00	
Labourer	0.56 Hrs @	87.50	49.00	
Total			769.00	
Contractor's profit & overhead		20%	153.80	
Total Labour rate			10087.95	10,088
2. Materials				
Wood - Kail 1st class	4.21 Cu.ft. @	3500.00	14748.98	
Sawing charges	4.21 Cu.ft. @	87.50	368.72	
Glue	0.17 Kg. @	160.00	27.20	
Nail of all sizes	0.11 Kg. @	90.00	9.90	
			15154.81	
Contractor's profit & overhead		20%	3030.96	
Total Composite rate			208892.75	208,893

Cu.m. c) Teak wood frame

1. Labour				
Carpenter	5.76 Hrs @	125.00	720.00	
Labourer	0.56 Hrs @	87.50	49.00	
Total			769.00	
Contractor's profit & overhead		20%	153.80	
Total Labour rate			10087.95	10,088
2. Materials				
Wood - Teak	4.21 Cu.ft. @	8000.00	33711.96	
Sawing charges	4.21 Cu.ft. @	87.50	368.72	
Glue	0.17 Kg. @	160.00	27.20	
Nail of all sizes	0.11 Kg. @	90.00	9.90	
			34117.79	
Contractor's profit & overhead		20%	6823.56	
Total Composite rate			457654.14	457,654

Item No. 16-5

Providing, fixing and hoisting First class wood wrought and framed in trusses and other roof scantlings including all necessary iron work for fixing and anchoring in position.

Detail of cost for 3.56 Cu.ft.

Considering a deodar wood couple close roof truss fish joints with slope 1 in 2 and loading 2 lbs./Sq.ft. spaced at 2'-9" centres and fixed to wall plate over 12" thick wall with effective span 16 ft.

Following sizes of scantling are accounted for:

Rafter 2" x 5" x 11'-0" long including leaves

Ridge pole 3.5" x 8" x 2'-9" long central distance

W. plaster 3" x 5" x 2'-9" long central space

Tie beam 2" x 4" x 16'-8" long

Quantity of Timber:

			2146000.00
Rafter	2" x 11'-0" x 2" x 5"	1.528 Cu.ft.	42920.00
Ridge pole	2'-9" x 3.5" x 8"	0.535 Cu.ft.	
W. plaster	2 x 2'-9" x 3" x 5"	0.573 Cu.ft.	
Tie beam	16'-8" x 2" x 4"	0.926 Cu.ft.	
		3.562 Cu.ft.	
Wastage	20%	0.712 Cu.ft.	
		4.27 Cu.ft.	

Iron Work:

U-strap 2" wide and 1/4" thick

For tie beam 2 x 1'-3" x 1.70 lbs/Lft. 4.25 Lbs.

For tie beam and rafter 2x 6.5'x 5"x1.70 lbs/Lft. 9.21 Lbs.

Gussets 6"x3" wide 2 x 0-6" x 2.55 lbs/Lft. 2.55 Lbs.

Anchor plater 1/4" th.2x 8"x 8"x 10.2 lbs/Sft. 9.07 Lbs.

Anchor bolts with nuts &

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

washers	2 x 2.82 lbs.	5.64	Lbs.		
Bolts 0.5" dia with nuts and washers	12 x 0.60 lbs	7.20	Lbs.		
		37.92	Lbs.		
Wastage	10%	3.79	Lbs.		
		41.71	Lbs.	=	18.89 Kg.

Cu.m. a) Deodar wood

1. Labour					
Carpenter		12.00	Hrs @	125.00	1500.00
Black smith		3.00	Hrs @	112.00	336.00
Helper		8.00	Hrs @	75.00	600.00
Labourer		16.00	Hrs @	87.50	1400.00
Total					3836.00
Contractor's profit & overhead				20%	767.20
Total Labour rate					45657.02
					45,657
2. Materials					
Wood - deodar 1st class		4.27	Cu.ft. @	5000.00	21369.17
Sawing charges		4.27	Cu.ft. @	87.50	373.96
Iron work		18.89	Kg. @	80.00	1511.44
Nail of all sizes		4.00	Kg. @	90.00	360.00
Glue		0.60	Kg. @	160.00	96.00
					23710.57
3. Hoisting and scaffolding charges				0.5%	137.73
Total of 2 & 3					23848.30
Contractor's profit & overhead				20%	4769.66
Total Composite rate					329505.42
					329,505

Cu.m. b) Kail wood

1. Labour					
Carpenter		20.00	Hrs @	125.00	2500.00
Black smith		3.00	Hrs @	112.00	336.00
Helper		8.00	Hrs @	75.00	600.00
Labourer		9.00	Hrs @	87.50	787.50
Total					4223.50
Contractor's profit & overhead				20%	844.70
Total Labour rate					50269.14
					50,269
2. Materials					
Wood - Kail 1st class		4.27	Cu.ft. @	3502.98	14971.14
Sawing charges		4.27	Cu.ft. @	87.50	373.96
Iron work		18.89	Kg. @	80.00	1511.44
Nail of all sizes		0.45	Kg. @	90.00	40.50
Glue		0.23	Kg. @	160.00	36.80
					16933.84
3. Hoisting and scaffolding charges				0.5%	105.79
Total of 2 & 3					17039.63
Contractor's profit & overhead				20%	3407.93
Total Composite rate					253078.99
					253,079

Item No. 16-6-1**Cu.m. Providing fixing and laying First class shisham wood of required section sawn and framed for dunnage with necessary iron work.**

Detail of cost for 10 Cu.ft.

Shisham wood	10.00	Cu.ft.
Wastage @ 25%	2.50	Cu.ft.
	12.50	Cu.ft.

1. Labour					
Carpenter		3.50	Hrs @	125.00	437.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Labourer	2.00 Hrs @	87.50	175.00	
Total			612.50	
Contractor's profit & overhead		20%	122.50	
Total Labour rate			2595.29	2,595
2. Materials				
Wood - Shisham	12.50 Cu.ft. @	2000.00	25000.00	
Sawing charges	12.50 Cu.ft. @	87.50	1093.75	
Nail of all sizes	0.57 Kg. @	90.00	51.30	
			26145.05	
Contractor's profit & overhead		20%	5229.01	
Total Composite rate			113377.09	113,377

Item No. 16-7

Providing and fixing First class deodar wood shutters fully panelled with same wood and fixed with approved brass hinges and tower bolts.

Sq.m. a) 2" (50 mm) thick fully panelled shutters.

Detail of cost for 35.31 Sq.ft.

Taking a fully panelled door 5'-6" x 7' with frame 2.5" x 5"

Double leaf: Area of shutter = 5'-2" x 6'-10" 35.31 Sq.ft.

Deodar wood

Styles 4 x 6.83 x 4/12 x 2/12 1.518 Cu.ft.

Bottom rails 2 x 2.58 x 2/12 x 7/12 0.502 Cu.ft.

Top rails 2 x 2.58 x 2/12 x 4/12 0.287 Cu.ft.

Intermittent

Rails 8 x 2.58 x 2/12 x 3/12 0.860 Cu.ft.

Panels 10 x 1.5 x 1.06 x 1/12 1.325 Cu.ft.

4.491 Cu.ft.

Wastage 30% 1.347 Cu.ft.

5.84 Cu.ft.

1. Labour

Carpenter 24.00 Hrs @ 125.00 3000.00

Labourer 18.00 Hrs @ 87.50 1575.00

Total 4575.00

Contractor's profit & overhead 20% 915.00

Total Labour rate 1672.97

1,673

2. Materials

Wood - deodar 1st class 5.84 Cu.ft. @ 5000.00 29192.22

Sawing charges 5.84 Cu.ft. @ 87.50 510.86

29703.09

Brass butt hinges 5" 6 No. @ 160.00 960.00

Brass tower bolt 12" 3 No. @ 150.00 450.00

Brass tower bolt 9" 1 No. @ 120.00 120.00

Brass screw 1.5" size 9 No. @ 9.60 86.40

Brass screw 1" size 20 No. @ 4.80 96.00

Glue 1.00 Kg. @ 160.00 160.00

1872.40

Total material 31575.49

Contractor's profit & overhead 20% 6315.10

Total Composite rate 13220.62

13,221

Sq.m. b) 1.75" (44 mm) thick fully panelled shutters.

Detail of cost for 31.89 Sq.ft.

Taking a fully panelled door 5' x 7' with frame 2.5" x 5"

Double leaf: Area of shutter = 4'-8" x 6'-10" 31.89 Sq.ft.

Deodar wood

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Styles	4 x 6.83 x 7/24 x 7/48	1.163	Cu.ft.	
Bottom rails	2 x 2.5 x 7/48 x 7/12	0.425	Cu.ft.	
Top rails	2 x 2.5 x 7/48 x 4/12	0.243	Cu.ft.	
Intermittant				
Rails	8 x 2.5 x 7/48 x 3/12	0.729	Cu.ft.	
Panels	10 x 1.5 x 1.16 x 7/96	1.269	Cu.ft.	
		<u>3.829</u>	Cu.ft.	
Wastage	20%	0.766	Cu.ft.	
		<u>4.59</u>	Cu.ft.	
1. Labour				
Same as in item 16-7(a)				1672.95
				1,673
2. Materials				
Wood - deodar 1st class		4.59	Cu.ft. @ 5004.25	22992.81
Sawing charges		11.86	Cu.ft. @ 87.50	1037.75
				<u>24030.56</u>
Hardware + other materials, same as in item 16-7(a)				1872.40
Total material				<u>25902.96</u>
Contractor's profit & overhead			20%	5180.59
Total Composite rate				<u>12160.97</u>
				12,161

Sq.m. c) 1.5" (38 mm) thick fully panelled shutters.

Detail of cost for 18.22 Sq.ft.

Taking a fully panelled door 3' x 7' with frame 2.5" x 4"

Single leaf: Area of shutter = 2'-8" x 6'-10" 18.22 Sq.ft.

Deodar wood

Styles 2 x 6.83 x 7/24 x 3/24 0.498 Cu.ft.

Bottom rails 1 x 2.67 x 2/24 x 7/12 0.130 Cu.ft.

Top rails 1 x 2.67 x 2/24 x 4/12 0.074 Cu.ft.

Intermittant

Rails 4 x 2.67 x 3/24 x 3/12 0.334 Cu.ft.

Panels 5 x 2.167 x 1.06 x 3/48 0.718 Cu.ft.

Wastage 20% 0.351 Cu.ft.

1. Labour

Same as in item 16-7(a)

1672.95

1,673

2. Materials

Wood - deodar 1st class 2.10 Cu.ft. @ 5004.25 10530.23

Sawing charges 2.10 Cu.ft. @ 87.50 184.12

Brass butt hinges 4" 3 No. @ 140.00 420.00

Brass tower bolt 12" 2 No. @ 150.00 300.00

Brass tower bolt 9" 2 No. @ 120.00 240.00

Brass screw 1.5" size 27 No. @ 9.60 262.08

Brass screw 1" size 24 No. @ 4.80 115.20

Glue 5.92 Kg. @ 160.00 947.20

Total material 12998.84

Contractor's profit & overhead 20% 2599.77

Total Composite rate 12233.98**12,234****Sq.m. d) 1.25" (32 mm) thick fully panelled shutters.**

Detail of cost for 14.80 Sq.ft.

Taking a fully panelled door 2'-6" x 7' with frame 2.5" x 4"

Single leaf: Area of shutter = 2'-2" x 6'-10" 14.81 Sq.ft.

Deodar wood

Styles 2 x 6.83 x 7/24 x 5/48 0.415 Cu.ft.

Bottom rails 1 x 2.167 x 5/48 x 7/12 0.132 Cu.ft.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Top rails	1 x 2.167 x 5/48 x 4/12	0.075	Cu.ft.	
Intermittant				
Rails	4 x 2.167 x 5/48 x 3/12	0.226	Cu.ft.	
Panels	5 x 1.67 x 1.06 x 3/48	0.553	Cu.ft.	
		1.401	Cu.ft.	
Wastage	20%	0.280	Cu.ft.	
		1.68	Cu.ft.	
1. Labour				
Same as in item 16-7(a)				1672.95
				1,673
2. Materials				
Wood - deodar 1st class		1.22	Cu.ft. @ 5000.00	6107.03
Sawing charges		1.22	Cu.ft. @ 87.50	106.87
				6213.90
Hardware + other materials, same as in item 16-7(c)				2284.48
Total material				8498.38
Contractor's profit & overhead				20%
				1699.68
Total Composite rate				9083.65
				9,084

Item No. 16-8

Providing and fixing 1.5" (38 mm) thick fully panelled First class deodar wood shutter fixed with ply/ hard board/ chip board/ Cement Fibre sheet and with approved nickle plated hinges and tower bolts.

Sq.m. a) Fixed with 5 ply (6 mm) teak wood ply

Detail of cost for 18.22 Sq.ft.

Taking a fully panelled door 3' x 7' with frame 2.5" x 4"

Single leaf: Area of shutter = 2'-8" x 6'-10"

Deodar wood

Styles 2 x 6.83 x 7/24 x 3/24 0.498 Cu.ft.

Bottom rails 2 x 2.67 x 2/24 x 7/12 0.260 Cu.ft.

Top rails 2 x 2.67 x 2/24 x 4/12 0.148 Cu.ft.

Intermittant

Rails 4 x 2.67 x 3/24 x 3/12 0.334 Cu.ft.

1.240 Cu.ft.

Wastage 20% 0.248 Cu.ft.

1.49 Cu.ft.

5 ply teak wood panels = 11.50 Sq.ft.

Wastage @ 30% 3.45 Sq.ft.

14.95 Sq.ft.

1. Labour

Carpenter 5.00 Hrs @ 125.00 625.00

Labourer 2.00 Hrs @ 87.50 175.00

Total 800.00

Contractor's profit & overhead 20% 160.00

Total Labour rate 566.83

567

2. Materials

Wood - deodar 1st class 1.49 Cu.ft. @ 5000.00 7438.13

Sawing charges 1.49 Cu.ft. @ 87.50 130.17

Ply - teak 5 ply 14.95 Sq.ft. @ 85.00 1270.86

8839.15

Iron butt hinge 4" 6.00 No. @ 75.00 450.00

Iron tower bolt 12" 3.70 No. @ 110.00 407.00

Iron tower bolt 9" 2.00 No. @ 90.00 180.00

Iron screw 1.5" 48.00 No. @ 10.00 480.00

Iron screw 1" 15.00 No. @ 8.00 120.00

Glue 0.17 Kg. @ 160.00 27.20

1664.20

Total material 10503.35

Contractor's profit & overhead 20% 2100.67

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Composite rate		8008.78	8,009
Sq.m. b) Fixed with 3 ply (3 mm) teak wood ply				
1. Labour				
	Same as in item 16-8(a)		566.85	567
2. Materials				
	Wood - deodar 1st class	3.02	Cu.ft. @ 5000.00	15110.00
	Sawing charges	2.00	Cu.ft. @ 87.50	175.00
	Ply - teak 3 ply	16.00	Sq.ft. @ 60.00	960.00
				16245.00
	Hardware + other materials (Same as in item 16-8(a))			1664.20
	Total material			17909.20
	Contractor's profit & overhead		20%	3581.84
	Total Composite rate			13256.08
				13,256
Sq.m. c) Fixed with 5/16" (8 mm) thick hard board.				
1. Labour				
	Carpenter	5.00	Hrs @ 125.00	625.00
	Labourer	2.00	Hrs @ 87.50	175.00
	Total			800.00
	Contractor's profit & overhead		20%	160.00
	Total Labour rate			566.83
				567
2. Materials				
	Wood - deodar 1st class	1.49	Cu.ft. @ 5000.00	7438.13
	Sawing charges	1.49	Cu.ft. @ 87.50	130.17
	Hard board 8 mm thick	4.14	Sq.ft. @ 40.00	165.60
				7733.89
	Hardware + other materials (Same as in item 16-8(a))			1664.20
	Total material			9398.09
	Contractor's profit & overhead		20%	1879.62
	Total Composite rate			7225.67
				7,226
Sq.m. d) Fixed with 1/4" (6 mm) thick hard board.				
1. Labour				
	Same as in item 16-8(c)		566.85	567
2. Materials				
	Wood - deodar 1st class	1.49	Cu.ft. @ 5000.00	7438.13
	Sawing charges	1.49	Cu.ft. @ 87.50	130.17
	Hard board 6 mm. thick	14.95	Sq.ft. @ 30.00	448.54
				8016.83
	Hardware + other materials (Same as in item 16-8(a))			1664.20
	Total material			9681.03
	Contractor's profit & overhead		20%	1936.21
	Total Composite rate			7426.16
				7,426
Sq.m. e) Fixed with 3/16" (5 mm) thick hard board.				
1. Labour				
	Same as in item 16-8(c)		566.85	567
2. Materials				
	Wood - deodar 1st class	1.49	Cu.ft. @ 5000.00	7438.13
	Sawing charges	1.49	Cu.ft. @ 87.50	130.17
	Hard board 5 mm thick	14.95	Sq.ft. @ 20.00	299.03
				7867.32
	Hardware + other materials (Same as in item 16-8(a))			1664.20
	Total material			9531.52

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	1906.30	
	Total Composite rate		7320.23	7,320
Sq.m. f) Fixed with 1/2" (13 mm) thick chip board (500 Kg./cu.m.)				
	1. Labour			
	Same as in item 16-8(c)		566.85	567
	2. Materials			
	Wood - deodar 1st class	2.00	Cu.ft. @ 5000.00	10000.00
	Sawing charges	2.00	Cu.ft. @ 87.50	175.00
	Chip board 3/4" thick	14.95	Sq.ft. @ 48.00	717.66
				10892.66
	Hardware + other materials (Same as in item 16-8(a))			1664.20
	Total material			12556.86
	Contractor's profit & overhead	20%	2511.37	
	Total Composite rate		9463.78	9,464
Sq.m. g) Fixed with 5 ply (6 mm) commercial ply				
	1. Labour			
	Same as in item 16-8(c)		566.85	567
	2. Materials			
	Wood - deodar 1st class	1.49	Cu.ft. @ 5000.00	7438.13
	Sawing charges	1.49	Cu.ft. @ 87.50	130.17
	Ply - commercial 5 ply	14.95	Sq.ft. @ 45.00	672.81
				8241.10
	Hardware + other materials (Same as in item 16-8(a))			1664.20
	Total material			9905.30
	Contractor's profit & overhead	20%	1981.06	
	Total Composite rate		7585.07	7,585
Sq.m. h) Fixed with 3 ply (3 mm) commercial ply				
	1. Labour			
	Same as in item 16-8(c)		566.85	567
	2. Materials			
	Wood - deodar 1st class	1.49	Cu.ft. @ 5000.00	7438.13
	Sawing charges	1.49	Cu.ft. @ 87.50	130.17
	Ply - commercial 3 ply	14.95	Sq.ft. @ 35.00	523.30
				8091.59
	Hardware + other materials (Same as in item 16-8(a))			1664.20
	Total material			9755.79
	Contractor's profit & overhead	20%	1951.16	
	Total Composite rate		7479.13	7,479
Sq.m. i) Fixed with 1/4" (6 mm) thick plain Cement Fibre sheet.				
	1. Labour			
	Same as in item 16-8(c)		566.85	567
	2. Materials			
	Wood - deodar 1st class	1.49	Cu.ft. @ 5000.00	7450.00
	Sawing charges	1.49	Cu.ft. @ 87.50	130.17
	Non Asbestos Cement Fibre sheet - plain	14.95	Sq.ft. @ 42.75	639.18
				8219.35
	Hardware + other materials (Same as in item 16-8(a))			1664.20
	Total material			9883.55
	Contractor's profit & overhead	20%	1976.71	
	Total Composite rate		7569.65	7,570

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-9

Providing and fixing First class deodar wood shutters fully glazed with glass of approved quality and approved brass hinges, tower bolts, deodar wood beading and putty packing to glasses as required.

a) 2" (50 mm) thick fully glazed shutters with 1/4" (6 mm) thick plain imported glass.

Sq.m. i) Glass to be provided

Detail of cost for 44.39 Sq.ft.

Considering a fully glazed door 6' x 8' at main entrance with 2.5" x 7" double leaf

Area of shutters = 5-8" x 7'-10" 44.39 Sq.ft.

Quantity of deodar wood sleepers

Styles 4 x 7'-10" x 6/12 x 2/12 2.611 Cu.ft.

Bottom rails 2 x 2'-9" x 2/12 x 10/12 0.764 Cu.ft.

Top rails 2 x 2'-9" x 2/12 x 8/12 0.611 Cu.ft.

Beading for glass 2 x 2(1'-11"+6'-5")x 11/2x 1/288 0.058 Cu.ft.

4.044 Cu.ft.

Wastage 20% 0.809 Cu.ft.

4.853 Cu.ft.

Glass 6 mm.thick 2 x 1'-11" x 6'-8" 25.56 Sq.ft.

Wastage 10% 2.56 Sq.ft.

28.11 Sq.ft. = 2.61 Sq.m.

1. Labour

Carpenter 24.00 Hrs @ 125.00 3000.00

Glazier 1.52 Hrs @ 125.00 190.57

Labourer 20.00 Hrs @ 87.50 1750.00

Total 4940.57

Contractor's profit & overhead 20% 988.11

Total Labour rate 1437.11 **1,437**

2. Materials

Wood - deodar 1st class 4.85 Cu.ft. @ 5000.00 24263.08

Sawing charges 4.85 Cu.ft. @ 87.50 424.60

24687.69

Hardware

Brass butt hinges 4" 8 No. @ 140.00 1120.00

Brass tower bolt 12" 2 No. @ 150.00 300.00

Brass tower bolt 9" 1 No. @ 120.00 120.00

Brass screw 1.5" size 66 No. @ 9.60 633.60

Brass screw 1" size 24 No. @ 4.80 115.20

2288.80

Other materials

Glue 0.110 Kg. @ 160.00 17.60

Nail of all sizes 0.045 Kg. @ 90.00 4.05

Glass 6 mm thick plain (imported) 2.61 Sq.m. @ 1950.00 5089.50

Oil putty 0.376 Kg. @ 90.00 33.88

5145.03

Total material 32121.52

Contractor's profit & overhead 20% 6424.30

Total Composite rate 10780.58 **10,781**

Sq.m. ii) Glass not included**1. Labour**

Same as item 16-9 (a) above 1197.59

Deduct for glazier 1.52 Hrs @ 125.00 190.57

Total 1007.02

Contractor's profit & overhead 20% 201.40

Total Labour rate 1208.42 **1,208**

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	Same as item 16-9 (a) above			32121.52
	Deduct for glass and putty			
	Glass 6 mm thick plain (imported)	2.61	Sq.m. @ 1950.00	5089.50
	Oil putty	0.376	Kg. @ 90.00	33.88
				<u>26998.14</u>
	Contractor's profit & overhead		20%	5399.63
	Total Composite rate			<u>9061.61</u>
				9,062

b) 1.75" (44 mm) thick fully glazed shutters with 1/4" (6mm) thick plain imported glass

Sq.m. i) Glass to be provided

Detail of cost for 42.43 Sq.ft.

Considering a fully glazed door 5'-9" x 8' at main entrance with 2.5" x 7" double leaf

Area of shutters =	5'-5" x 7'-10"	42.43	Sq.ft.	
Quantity of deodar wood sleepers				
Styles	4 x 7'-10" x 6/12 x 7/48	2.285	Cu.ft.	
Bottom rails	2 x 2'-7" x 7/48 x 10/12	0.628	Cu.ft.	
Top rails	2 x 2'-7" x 7/48 x 8/12	0.502	Cu.ft.	
Beading for glass	2 x 2(1'-9"+6'-5")x0.5x0.5x1/144	0.057	Cu.ft.	
		<u>3.471</u>	Cu.ft.	
Wastage	20%	0.694	Cu.ft.	
		<u>4.166</u>	Cu.ft.	
Glass 6 mm.thick	2x1'-9"x6'-5"	22.46	Sq.ft.	
Wastage	10%	2.25	Sq.ft.	
		<u>24.70</u>	Sq.ft.	
			=	2.296 Sq.m.

1. Labour

Same as in item 16-9(ai)

1437.10

1,437

2. Materials

Wood - deodar 1st class

4.17

Cu.ft. @ 5000.00

20828.42

Sawing charges

4.17

Cu.ft. @ 87.50

364.50

21192.91

Hardware Same as item 16-9 (a) above

2288.80

Other materials

Glue

0.110

Kg. @ 160.00

17.60

Nail of all sizes

0.045

Kg. @ 90.00

4.05

Glass 6 mm thick plain (imported)

2.30

Sq.m. @ 1950.00

4485.00

Oil putty

0.376

Kg. @ 90.00

33.88

4540.53

Total material

28022.25

Contractor's profit & overhead

20%

5604.45

Total Composite rate

9964.83

9,965

Sq.m. ii) Glass not included

1. labour

Same as item 16-9 (b) above

1197.59

Deduct for glazier

1.52

Hrs @ 125.00

190.57

Total

1007.02

Contractor's profit & overhead

20%

201.40

Total Labour rate

1208.42

1,208

2. Material

Same as item 16-9 (b) above

28022.25

Deduct for glass and putty

Glass 6 mm thick plain (imported)

2.30

Sq.m. @ 1950.00

4485.00

Oil putty

0.376

Kg. @ 90.00

33.88

23503.36

Contractor's profit & overhead

20%

4700.67

Total Composite rate

8360.97

8,361

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

c) 1.5" (38 mm) thick fully glazed shutters with 1/4" (5 mm) thick plain local glass

Sq.m. i) Glass to be provided

Detail of cost for 19.26 Sq.ft.

Considering a fully glazed door 5'-3" x 4'-3" with 2.5" x4" frame having one fixed shutter at centre and two openable shutters at sides with single leaf.

Area of shutters = 4'-11" x 3'-11" 19.26 Sq.ft.

Quantity of deodar wood sleepers

Hanging styles 2x3'-11"x3/12x1.5x1/12 0.245 Cu.ft.

Fix & meeting styles 4x3'-11"x23/8x1/144x1.5 0.469 Cu.ft.

Top & bottom rails 3x2x1'-6.5"x1.5"x3"x1/144 0.289 Cu.ft.

Sashes (Hor.only)3x3x1'-6.5"x1.5"x1.5"x1/144 0.217 Cu.ft.

Beading for glass 3x4x2(2'-0")x0.5x0.5x1/144 0.083 Cu.ft.

1.303 Cu.ft.

Wastage 20% 0.261 Cu.ft.

1.563 Cu.ft.

Glass 5 mm.thick 3x4x1'-2"x0'-10" = 11.67 Sq.ft.

Wastage 10% 1.17 Sq.ft.

12.84 Sq.ft. = 1.193 Sq.m.

1. Labour

Same as in item 16-9(ai) 1437.10 **1,437**

2. Materials

Wood - deodar 1st class 1.56 Cu.ft. @ 5000.00 7815.77

Sawing charges 1.56 Cu.ft. @ 87.50 136.78

7952.54

Hardware

Brass butt hinges 3" 4.00 No. @ 110.00 440.00

Brass tower bolt 6" 4.00 No. @ 100.00 400.00

Brass screw 1.25" size 36.00 No. @ 6.00 216.00

Brass screw 1" size 18 No. @ 4.80 86.40

1142.40

Other materials

Glue 0.056 Kg. @ 160.00 8.96

Nail of all sizes 0.036 Kg. @ 90.00 3.24

Glass 5 mm thick plain (local) 1.19 Sq.m. @ 1291.20 1536.53

Oil putty 0.376 Kg. @ 90.00 33.88

1582.61

Total material 10677.55

Contractor's profit & overhead 20% 2135.51

Total Composite rate 8596.41 **8,596**

Sq.m. ii) Glass not included

1. labour

Same as item 16-9 (c) above 1197.59

Deduct for glazier 1.52 Hrs @ 125.00 190.57

Total 1007.02

Contractor's profit & overhead 20% 201.40

Total Labour rate 1208.42 **1,208**

2. Material

Same as item 16-9 (c) above 10677.55

Deduct for glass and putty

Glass 5 mm thick plain (local) 1.19 Sq.m. @ 1291.20 1536.53

Oil putty 0.376 Kg. @ 90.00 33.88

9107.14

Contractor's profit & overhead 20% 1821.43

Total Composite rate 7314.77 **7,315**

d) 1.25" (32mm) thick fully glazed shutters with 1/4" (5mm) thick plain local glass

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. i) Glass to be provided

Detail of cost for 12.06 Sq.ft.

Considering a fully glazed window 5'-3" x 4'-3" with 2.5" x 4" frame having one fixed shutter at centre and two openable shutters at sides with single leaf.

Area of shutters =	3-3.5" x 3'-8"	12.06	Sq.ft.		
Quantity of deodar wood sleepers					
Hanging styles	4x3'-8"x3/12x1.25x1/12	0.382	Cu.ft.		
Top and bottom rails	4x1'-7"x1.25"x3"x1/144	0.165	Cu.ft.		
Sashes (Horz. only)	3x2x1'-7"x1.25"x1.5"x1/144	0.124	Cu.ft.		
Beading for glass	4x2x2(2'-3.5")x0.5x0.5x1/144	0.064	Cu.ft.		
		0.734	Cu.ft.		
Wastage	20%	0.147	Cu.ft.		
		0.881	Cu.ft.		
Glass 5 mm.thick	4 x 2'-1" x 1'- 3"	10.42	Sq.ft.		
Wastage	10%	1.04	Sq.ft.		
		11.46	Sq.ft.	=	1.065 Sq.m.

1. Labour

Same as in item 16-9(ai)

1437.10 **1,437****2. Materials**

Wood - deodar 1st class	0.881	Cu.ft.	@	5000.00	4404.95
Sawing charges	0.881	Cu.ft.	@	87.50	77.09
					4482.03
Hardware					1142.40
Other materials					
Glue	0.056	Kg.	@	160.00	8.96
Nail of all sizes	0.036	Kg.	@	90.00	3.24
Glass 5 mm thick plain (local)	1.06	Sq.m.	@	1291.20	1374.78
Oil putty	0.376	Kg.	@	90.00	33.88
					1420.86
Total material					7045.30
Contractor's profit & overhead				20%	1409.06
Total Composite rate					8977.36

8,977**Sq.m. ii) Glass not included****1. labour**

Same as item 16-9 (di) above

1197.59

Deduct for glazier

1.52 Hrs @ 125.00 190.57

Total

1007.02

Contractor's profit & overhead

20% 201.40

Total Labour rate

1208.42

1,208**2. Material**

Same as item 16-9 (di) above

7045.30

Deduct for glass and putty

Glass 5 mm thick plain (local) 1.06 Sq.m. @ 1291.20 1374.78

Oil putty 0.376 Kg. @ 90.00 33.88

5636.63

Contractor's profit & overhead

20% 1127.33

Total Composite rate

7241.05

7,241**e) 1" (25mm) thick fully glazed shutters with 1/4" (5mm) thick plain local glass****Sq.m. i) Glass to be provided**

Detail of cost for 1.95 Sq.ft.

Considering a fully glazed ventilator 2'-0"x1'-6" with 2.5" x 3" single leaf top hung.

Area of shutters = 1-8" x 1'- 2" 1.95 Sq.ft.

Quantity of timber

Horizontal frame 2x1'-8"x1/12x2.5x1/12 0.058 Cu.ft.

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Vertical frame	2x1'-1"x1/12x2.5x1/12	0.038	Cu.ft.		
Beading for glass	1x2(2'-2")x0.5x0.5x1/144	0.008	Cu.ft.		
		0.103	Cu.ft.		
Wastage	40%	0.041	Cu.ft.		
		0.144	Cu.ft.		
Glass 5 mm.thick	1'-4" x 0'- 10"	1.11	Sq.ft.		
Wastage	10%	0.11	Sq.ft.		
		1.22	Sq.ft. =	0.113	Sq.m.
1. Labour					
Same as in item 16-9(ai)				1437.10	1,437
2. Materials					
Wood - deodar 1st class		0.144	Cu.ft. @	5000.00	720.34
Sawing charges		0.144	Cu.ft. @	87.50	12.61
					732.95
Hardware					
Brass butt hinges 2"		2.00	No. @	100.00	200.00
Brass tower bolt 6"		1.00	No. @	100.00	100.00
Brass screw 1" size		12	No. @	4.80	57.60
					357.60
Other materials					
Glue		0.036	Kg. @	160.00	5.76
Nail of all sizes		0.023	Kg. @	90.00	2.07
Glass 5 mm thick plain (local)		0.11	Sq.m. @	1291.20	146.24
Oil putty		0.050	Kg. @	90.00	4.50
					158.57
Total material					1249.12
Contractor's profit & overhead				20%	249.82
Total Composite rate					9727.81
					9,728
Sq.m. ii) Glass not included					
1. labour					
Same as item 16-9 (e) above					1197.59
Deduct for glazier		1.52	Hrs @	125.00	190.00
Total					1007.59
Contractor's profit & overhead				20%	201.52
Total Labour rate					1209.11
					1,209
2. Material					
Same as item 16-9 (e) above					1249.12
Deduct for glass and putty					
Glass 5 mm thick plain (local)		0.11	Sq.m. @	1291.20	146.24
Oil putty		0.050	Kg. @	90.00	4.50
					1098.38
Contractor's profit & overhead				20%	219.68
Total Composite rate					8499.31
					8,499

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-10

Providing and fixing First class deodar wood shutters partly panelled and partly glazed with plain glass of approved quality, brass hinges, tower bolts, deodar wood beading and putty packing for glass as required.

- a) 2" (50mm) thick partly panelled & partly glazed shutters with 1/4" (6mm) thick plain imported glass.

Detail of cost for 35.30 sft.

Sq.m. i) Glass to be provided

Considering a door 5'-6" x 7'-0" with frame 2.5" x 5" double leaf with only two wooden panels 2' high approx. and the rest portion fully glazed with 1/4" (6mm) thick glass

Area of shutters	5'-2" x 6'-10"	35.31	Sq.ft.		
Quantity of timber:					
Styles	4x6'-10"x3.5"x2"x1/144	1.329	Cu.ft.		
Bottom rails	2x2'-7"x2"x8.75"x1/144	0.628	Cu.ft.		
Top rails	2x2'-7"x2"x3"x1/144	0.215	Cu.ft.		
Lock rails	2x2'-7"x2"x4.5"x1/144	0.323	Cu.ft.		
Panels	2x2'-3"x2-1.5"x1/12"	0.795	Cu.ft.		
Beading	2x2(2'-1"+3'-4")x1/2x1/144	0.177	Cu.ft.		
		3.466	Cu.ft.		
Wastage	35%	1.213	Cu.ft.		
		4.679	Cu.ft.		
Glass panes	2 x 2'-1" x 3'-4"	13.85	Sq.ft.		
Wastage	10%	1.39	Sq.ft.		
		15.24	Sq.ft.	=	1.42 Sq.m.

1. Labour

Carpenter	24.00	Hrs	@	125.00	3000.00
Glazier	3.00	Hrs	@	125.00	375.00
Labourer	18.00	Hrs	@	87.50	1575.00
Total					4950.00
Contractor's profit & overhead				20%	990.00
Total Labour rate					1810.29

1,810**2. Materials**

Wood - deodar 1st class	4.68	Cu.ft.	@	5000.00	23396.05
Sawing charges	4.68	Cu.ft.	@	87.50	409.43
					23805.48
Hardware	Same as in item 16-9(a)				2288.80
Other materials					
Glue	0.110	Kg.	@	160.00	17.60
Nail of all sizes	0.036	Kg.	@	90.00	3.27
Glass 6 mm thick plain (imported)	1.42	Sq.m.	@	1950.00	2769.00
Oil putty	0.245	Kg.	@	90.00	22.04
					2811.92
Total material					28906.20
Contractor's profit & overhead				20%	5781.24
Total Composite rate					12381.74

12,382**Sq.m. ii) Glass not included****1. Labour**

Same as item 16-10 (a) above					1501.01
Deduct for glazier	3.00	Hrs	@	125.00	375.00
Total					1126.01
Contractor's profit & overhead				20%	225.20
Total Labour rate					1351.22

1,351**2. Material**

Same as item 16-10 (a) above					28906.20
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Deduct for glass and putty			
	Glass 6 mm thick plain (imported)	1.42	Sq.m. @ 1950.00	2769.00
	Oil putty	0.245	Kg. @ 90.00	22.05
				<u>26115.15</u>
	Contractor's profit & overhead		20%	5223.03
	Total Composite rate			<u>10901.94</u>
				10,902

b) 1.75" (44mm) thick partly panelled and partly glazed shutters with 1/4" (6mm) thick plain imported glass

Sq.m. i) Glass to be provided

Considering a door 5'-0" x 7'-0" with frame 2.5" x 5" double leaf with only two wooden panels 2' high approx. and the rest portion fully glazed with 1/4" (6mm) thick glass

Area of shutters	4'-8" x 6'-10"	31.89	Sq.ft.		
Quantity of timber:					
Styles	2 x 6'-10" x 3.5" x 2" x 1.75"/144	1.163	Cu.ft.		
Bottom rails	2 x 2'-4" x 1.75" x 8.75" x 1/144	0.496	Cu.ft.		
Top rails	2 x 2'-4" x 1.75" x 3"/144	0.170	Cu.ft.		
Lock rails	2 x 2'-4" x 1.75" x 4.5"/144	0.255	Cu.ft.		
Panels	2 x 2 x 7/8" x 2' x 1/12	0.583	Cu.ft.		
Beading	2 x 2(1'-10"+3'-4")x1/2x1/144	0.036	Cu.ft.		
		<u>2.702</u>	Cu.ft.		
Wastage	20%	0.540	Cu.ft.		
		<u>3.242</u>	Cu.ft.		
Glass panes	2 x 1'-10" x 3'-4"	12.21	Sq.ft.		
Wastage	10%	1.22	Sq.ft.		
		<u>13.43</u>	Sq.ft.	=	1.25 Sq.m.

1. Labour

Same as in item 16-10(ai)					1437.10	1,437
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2. Materials

Wood - deodar 1st class		3.24	Cu.ft. @ 5000.00		16212.26
Sawing charges		3.24	Cu.ft. @ 87.50		283.71
					<u>16495.97</u>
Hardware	Same as in item 16-9(b)				2288.80

Other materials

Glue		0.110	Kg. @ 160.00		17.60
Nail of all sizes		0.036	Kg. @ 90.00		3.27
Glass 6 mm thick plain (imported)		1.02	Sq.m. @ 1950.00		1989.00
Oil putty		0.231	Kg. @ 90.00		20.82
					<u>2030.69</u>

Total material

					20815.47
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Contractor's profit & overhead

			20%		4163.09
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Total Composite rate

					<u>9865.22</u>	9,865
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Sq.m. ii) Glass not included

1. Labour	Same as item 16-10 (b) above				1508.58	
Deduct for glazier		3.00	Hrs @ 125.00		375.00	
Total					<u>1133.58</u>	
Contractor's profit & overhead			20%		226.72	
Total Labour rate					<u>1360.29</u>	1,360

2. Material

Same as item 16-10 (b) above					20815.47
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Deduct for glass and putty

Glass 6 mm thick plain (imported)		1.21	Sq.m. @ 1950.00		2359.50
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Oil putty		0.231	Kg. @ 90.00		20.82
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					<u>18435.15</u>
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	3687.03	
Total Composite rate		8824.62	8,825

c) 1.5" (38mm) thick partly panelled partly glazed shutters with 1/4" (5mm) thick plain local glass

Sq.m. i) Glass to be provided

Considering a door 3'-0" x 7'-0" with frame 2.5" x 4" single leaf with only one panel high and glazed in four parts with 1/4" (5mm) thick glass

Area of shutters	2'-8" x 6'-10"	18.22	Sq.ft.		
Quantity of timber:					
Styles	2 x 6'-10" x 3.5" x 1.5"/144	0.498	Cu.ft.		
Bottom rails	1 x 2'-8"x1.5"x8.75"x1/144	0.243	Cu.ft.		
Top rails	1 x 2'-8" x 1.5" x 3"/144	0.083	Cu.ft.		
Lock rails	1 x 2'-8"x1.5" x 4.5"/144	0.125	Cu.ft.		
Panels	1 x 2' -7" x 2'-1" x 3/4	0.336	Cu.ft.		
Beading	3x2(2'-2"+1'-1.25")x1/2x1/2x1/144	0.034	Cu.ft.		
		1.320	Cu.ft.		
Wastage	30%	0.396	Cu.ft.		
		1.715	Cu.ft.		
Glass panes	2'-1" x 3'-4"	6.93	Sq.ft.		
Wastage	10%	0.69	Sq.ft.		
		7.62	Sq.ft.	=	0.71 Sq.m.

1. Labour

Same as in item 16-10(ai)		1437.10	1,437
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2. Materials

Wood - deodar 1st class	1.72	Cu.ft. @	5000.00	8576.99
Sawing charges	1.72	Cu.ft. @	87.50	150.10
				8727.09
Hardware	Same as in item 16-9(c)			1142.40

Other materials

Glue	0.110	Kg. @	160.00	17.60
Nail of all sizes	0.036	Kg. @	90.00	3.27
Glass 5 mm thick plain (local)	0.42	Sq.m. @	1291.20	542.30
Oil putty	0.231	Kg. @	90.00	20.82
				584.00

Total material				10453.49
Contractor's profit & overhead	20%			2090.70
Total Composite rate				8843.72

8,844

Sq.m. ii) Glass not included

1. Labour

Same as item 16-10 (c) above				1508.58
Deduct for glazier	3.00	Hrs @	125.00	375.00
Total				1133.58
Contractor's profit & overhead	20%			226.72
Total Labour rate				1360.29

1,360

2. Material

Same as item 16-10 (b) above				10453.49
Deduct for glass and putty				
Glass 5 mm thick plain (local)	0.71	Sq.m. @	1291.20	914.28
Oil putty	0.231	Kg. @	90.00	20.82
				9518.38
Contractor's profit & overhead	20%			1903.68
Total Composite rate				8104.37

8,104

d) 1.25" (32mm) thick partly panelled partly glazed shutters with 1/4" (5mm) thick plain local glass

Sq.m. i) Glass to be provided

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Considering a door 3'-7-1/2" x 3'-3" with frame 2.5" x 4" double leaf with bottom portion panelled with wood and the rest four panels glazed using 1/4" (5 mm) thick glass

Area of shutters	3'-3-1/2" x 2'-11"	9.60	Sq.ft.
Quantity of timber:			
Styles 2 x 2'-11" x 3" x 1.25"/144		0.304	Cu.ft.
Rails 2 x 3 x 1'-5" x 3" x 1.25" x 1/144		0.221	Cu.ft.
Sashes 1 x 2 x 1'-4" x 1.5" x 1.25"/144		0.035	Cu.ft.
Panels 2 x 1' -4" x 10" x 3/4		0.138	Cu.ft.
Beading 2x2(1'-3"+ 9")x1/2x1/2x1/144		0.014	Cu.ft.
		<u>0.712</u>	Cu.ft.
Wastage	40%	0.285	Cu.ft.
		<u>0.997</u>	Cu.ft.
Glass panes	2 x 2 x 1'-3" x 9"	3.75	Sq.ft.
Wastage	10%	0.38	Sq.ft.
		<u>4.13</u>	Sq.ft. = 0.38 Sq.m.

1. Labour

Same as in item 16-10(ai) 1437.10 **1,437**

2. Materials

Wood - deodar 1st class	0.997	Cu.ft.	@	5000.00	4985.35
Sawing charges	0.997	Cu.ft.	@	87.50	87.24
					<u>5072.59</u>

Hardware

Brass butt hinges 3"	4.00	No.	@	110.00	440.00
Brass tower bolt 6"	2.00	No.	@	100.00	200.00
Brass screw 1.25" size	30.00	No.	@	6.00	180.00
Brass screw 1" size	15	No.	@	4.80	72.00
					<u>892.00</u>

Other materials

Glue	0.036	Kg.	@	160.00	5.82
Nail of all sizes	0.023	Kg.	@	90.00	2.05
Glass 5 mm thick plain (local)	0.14	Sq.m.	@	1291.20	180.77
Oil putty	0.181	Kg.	@	90.00	16.33
					<u>204.96</u>

Total material

					6169.55
Contractor's profit & overhead			20%		1233.91
Total Composite rate					<u>9738.66</u>

9,739**Sq.m. ii) Glass not included**

1. Labour Same as item 16-10 (d) above

Deduct for glazier	3.00	Hrs	@	125.00	375.00
Total					<u>1062.10</u>
Contractor's profit & overhead				20%	212.42
Total Labour rate					<u>1274.52</u>

1,275

2. Material

Same as item 16-10 (d) above					6169.55
Deduct for glass and putty					
Glass 5 mm thick plain (local)	0.38	Sq.m.	@	1291.20	490.66
Oil putty	0.181	Kg.	@	90.00	16.33
					<u>5662.57</u>
Contractor's profit & overhead				20%	1132.51
Total Composite rate					<u>8893.90</u>

8,894**e) 1" (25mm) thick partly panelled partly glazed shutters with 1/4" (5mm) thick plain local glass****Sq.m. i) Glass to be provided**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Considering a door 2'-0" x 4'-0" with frame 2.5" x 4" single leaf with bottom portion panelled with wood and the rest three panels glazed using 1/4" (5 mm) thick glass

Area of shutters	1'-8" x 3'-8"	6.11	Sq.ft.		
Quantity of timber:					
Styles	2 x 3'-8" x 3" x 1"/144	0.153	Cu.ft.		
Rails	3 x 1'-7" x 3" x 1" x 1/144	0.099	Cu.ft.		
Sashes	2 x 1'-6" x 1.5" x 1"/144	0.031	Cu.ft.		
Panels	1 x 1' -3" x 10.5" x 3/4	0.068	Cu.ft.		
Beading	3x2(1'-3"+ 9")x1/2x1/2x1/144	0.021	Cu.ft.		
		<u>0.372</u>	Cu.ft.		
Wastage	40%	0.149	Cu.ft.		
		<u>0.521</u>	Cu.ft.		
Glass panes	3 x 1'-3" x 9"	2.81	Sq.ft.		
Wastage	10%	0.28	Sq.ft.		
		<u>3.09</u>	Sq.ft.	=	0.29 Sq.m.

1. Labour

Same as in item 16-10(ai) 1437.10 **1,437**

2. Materials

Wood - deodar 1st class	0.521	Cu.ft.	@	5000.00	2604.11
Sawing charges	0.521	Cu.ft.	@	87.50	45.57
					<u>2649.68</u>

Hardware

Brass butt hinges 3"	2	No.	@	110.00	220.00
Brass tower bolt 6"	2	No.	@	100.00	200.00
Brass screw 1.25" size	15	No.	@	6.00	90.00
Brass screw 1" size	9	No.	@	4.80	43.20
					<u>553.20</u>

Other materials

Glue	0.045	Kg.	@	160.00	7.27
Nail of all sizes	0.023	Kg.	@	90.00	2.05
Glass 5 mm thick plain (local)	0.10	Sq.m.	@	1291.20	129.12
Oil putty	0.136	Kg.	@	90.00	12.25
					<u>150.69</u>

Total material

Contractor's profit & overhead				20%	3353.57
Total Composite rate					<u>670.71</u>
					<u>8520.70</u>

8,521

Sq.m. ii) Glass not included

1. Labour	Same as item 16-10 (e) above				1437.10
Deduct for glazier		3.00	Hrs	@	125.00
Total					<u>375.00</u>
Contractor's profit & overhead				20%	1062.10
Total Labour rate					<u>212.42</u>
					<u>1274.52</u>

1,275

2. Material	Same as item 16-10 (e) above				3353.57
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Deduct for glass and putty

Glass 5 mm thick plain (local)	0.29	Sq.m.	@	1291.20	374.45
Oil putty	0.136	Kg.	@	90.00	12.25
					<u>2966.87</u>

Contractor's profit & overhead				20%	593.37
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Total Composite rate					<u>7541.32</u>
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7,541

Item No. 16-11

Providing and fixing 1.5" (38mm) thick pressed veneered door shutters fully flushed with First class wood veneering on all faces and sides fixed over deodar wood caved core and frame work of not less than 4" (100mm) wide strips all round with approved brass hinges, tower bolts as required.

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Detail of cost for 18.11 Sq.ft.

Considering pressed veneered fully flushed door 7' x 3' with 2.5" x 4" frame single leaf.

Area of shutter	2'-8" x 6'-9.5"	18.11	Sq.ft.
Deodar wood			
Vertical pieces		0.486	Cu.ft.
Horizontal pieces		0.234	Cu.ft.
Middle strips at 7.67"			
Centres	6 x 2'-4" x 3" x 1.25/12'	0.36	Cu.ft.
		<u>1.084</u>	Cu.ft.
Wastage	15%	0.163	Cu.ft.
		<u>1.247</u>	Cu.ft.
Veneered board	2 x 2'-8" x 6'-9.5"	36.22	Sq.ft.
Wastage	20%	7.244	Sq.ft.
		<u>43.461</u>	Sq.ft.

a) Teak wood

Sq.m. i) 3 Ply

1. Labour					
Carpenter	6.00	Hrs	@	125.00	750.00
Glazier	3.00	Hrs	@	125.00	375.00
Total					<u>1125.00</u>
Contractor's profit & overhead				20%	225.00
Total Labour rate					<u>802.15</u>

802

2. Materials

Wood - deodar 1st class	1.247	Cu.ft.	@	5000.00	6233.36
Sawing charges	1.247	Cu.ft.	@	87.50	109.08
Glue	0.045	Kg.	@	160.00	7.27
Brass butt hinges 4"	3	No.	@	140.00	420.00
Brass screw 1.5" size	24	No.	@	9.60	230.40
					<u>7000.12</u>
Ply - teak 3 ply	43.46	Sq.ft.	@	60.00	2607.69
Total materials cost					<u>9607.80</u>
Contractor's profit & overhead				20%	1921.56
Total Composite rate					<u>7652.69</u>

7,653

Sq.m. ii) 5 Ply

1. Labour					
Total Labour rate	Same as in item 16-11(a)1				802.15
2. Materials					
Ply - teak 5 ply	43.46	Sq.ft.	@	85.00	3694.22
Other materials cost	Same as in item 16-11(a)1				7000.12
Total materials cost					<u>10694.34</u>
Contractor's profit & overhead				20%	2138.87
Total Composite rate					<u>8427.41</u>

8,427

b) Shisham wood

Sq.m. i) 3 Ply

1. Labour					
Total Labour rate	Same as in item 16-11(a)1				802.15
2. Materials					
Ply - shisham 3 ply	43.46	Sq.ft.	@	35.00	1521.15
Other materials cost	Same as in item 16-11(a)1				7000.12
Total materials cost					<u>8521.27</u>
Contractor's profit & overhead				20%	1704.25

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	6877.97	6,878
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Sq.m. ii) 5 Ply

1. Labour			
Total Labour rate	Same as in item 16-11(a)1	802.15	802
2. Materials			
Ply - shisham 5 ply	43.46 Sq.ft. @ 70.00	3042.30	
Other materials cost	Same as in item 16-11(a)1	7000.12	
Total materials cost		10042.42	
Contractor's profit & overhead	20%	2008.48	
Total Composite rate		7962.58	7,963

c) Commercial wood**Sq.m. i) 3 Ply**

1. Labour			
Total Labour rate	Same as in item 16-11(a)1	802.15	802
2. Materials			
Ply - commercial 3 ply	43.46 Sq.ft. @ 35.00	1521.15	
Other materials cost	Same as in item 16-11(a)1	7000.12	
Total materials cost		8521.27	
Contractor's profit & overhead	20%	1704.25	
Total Composite rate		6877.97	6,878

Sq.m. ii) 5 Ply

1. Labour			
Total Labour rate	Same as in item 16-11(a)1	802.15	802
2. Materials			
Ply - commercial 5 ply	43.46 Sq.ft. @ 45.00	1955.76	
Other materials cost	Same as in item 16-11(a)1	7000.12	
Total materials cost		8955.88	
Contractor's profit & overhead	20%	1791.18	
Total Composite rate		7187.86	7,188

Item No. 16-12

Providing and fixing 1.5" (38 mm) thick pressed veneered door shutters fully flushed with First class wood veneering on all faces and sides fixed over partial wood cavited core and frame work of not less than 4" (100mm) wide strips all round with approved iron hinges, tower bolts as required.

Detail of cost for 18.11 Sq.ft.

Considering pressed veneered fully flushed door 7' x 3' with 2.5" x 4" frame single leaf.

Area of shutter	2'-8" x 6'-9.5"	18.11	Sq.ft.
Partial wood	Same as in item 16-11(a)	1.084	Cu.ft.
Wastage	10%	0.108	Cu.ft.
		1.192	Cu.ft.
Veneered board	2 x 2'-8" x 6'-9.5"	36.22	Sq.ft.
Wastage	20%	7.244	Sq.ft.
		43.461	Sq.ft.

a) Teak wood**Sq.m. i) 3 Ply**

1. Labour			
Total Labour rate	Same as in item 16-11(a)1	802.15	802
2. Materials			
Wood - Partial	1.19 Cu.ft. @ 1200.00	1430.96	
Sawing charges	1.247 Cu.ft. @ 87.50	109.08	
Glue	0.045 Kg. @ 160.00	7.27	
Iron butt hinge 4"	3 No. @ 75.00	225.00	
Iron screw 1.5"	24 No. @ 10.00	240.00	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
				2012.32
	Ply - teak 3 ply	43.46	Sq.ft. @ 60.00	2607.69
	Total materials cost			4620.00
	Contractor's profit & overhead		20%	924.00
	Total Composite rate			4096.30
				4,096
Sq.m. ii) 5 Ply				
1. Labour				
	Total Labour rate	Same as in item 16-12(a)1		802.15
				802
2. Materials				
	Ply - teak 5 ply	43.46	Sq.ft. @ 85.00	3694.22
	Other materials cost	Same as in item 16-12(a)1		2012.32
	Total materials cost			5706.54
	Contractor's profit & overhead		20%	1141.31
	Total Composite rate			4871.02
				4,871
b) Shisham wood				
Sq.m. i) 3 Ply				
1. Labour				
	Total Labour rate	Same as in item 16-12(a)1		802.15
				802
2. Materials				
	Ply - shisham 3 ply	43.46	Sq.ft. @ 35.00	1521.15
	Other materials cost	Same as in item 16-12(a)1		2012.32
	Total materials cost			3533.47
	Contractor's profit & overhead		20%	706.69
	Total Composite rate			3321.58
				3,322
Sq.m. ii) 5 Ply				
1. Labour				
	Total Labour rate	Same as in item 16-12(a)1		802.15
				802
2. Materials				
	Ply - shisham 5 ply	43.46	Sq.ft. @ 70.00	3042.30
	Other materials cost	Same as in item 16-12(a)1		2012.32
	Total materials cost			5054.62
	Contractor's profit & overhead		20%	1010.92
	Total Composite rate			4406.19
				4,406

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

c) Commercial wood**Sq.m. i) 3 Ply**

1. Labour							
Total Labour rate	Same as in item 16-12(a)1				802.15		802
2. Materials							
Ply - commercial 3 ply		43.46	Sq.ft.	@ 35.00	1521.15		
Other materials cost	Same as in item 16-12(a)1				2012.32		
Total materials cost					3533.47		
Contractor's profit & overhead				20%	706.69		
Total Composite rate					3321.58		3,322

Sq.m. ii) 5 Ply

1. Labour							
Total Labour rate	Same as in item 16-11(a)1				802.15		802
2. Materials							
Ply - commercial 5 ply		43.46	Sq.ft.	@ 45.00	1955.76		
Other materials cost	Same as in item 16-11(a)1				2012.32		
Total materials cost					3968.08		
Contractor's profit & overhead				20%	793.62		
Total Composite rate					3631.47		3,631

Item No. 16-13

Sq.m. Providing and fixing sliding shutters clad with plain galvanized iron sheet 24 gauge (1.05mm) on front face over wood frame work 2"x3" (50mmx75mm) pulleys 4" (100mm) dia. With guides of T- iron 2.5"x2.5"x0.25" (65mmx65mmx6mm) at top and bottom T-iron brackets to walls and top pulleys 2"x2"x0.25" (50mmx50mmx6mm) covering channels for pulleys embedding in cement concrete 1:2:4, bottom guide with rag bolts 6" (150mm) long including locking arrangements with handles.

Detail of cost for 76.5 Sq.ft.

Considering a gate of 8'-6" x 9'-0"		76.50	Sq.ft.		
G.I. sheet plain 24 gauge + 5% wastage		80.33	Sq.ft.		
Weight = 80.33 x 1.11/2.2046		40.45	Kgs.		
Wood:					
Vertical pieces 4 x 9' x 2" x 3"		1.500	Cu.ft.		
Horizontal pieces 5 x 3'-9" x 2" x 3"		0.781	Cu.ft.		
Diagonal pieces 8 x 4'-3" x 2" x 3"		1.417	Cu.ft.		
		3.698	Cu.ft.		
Wastage 20%		0.740	Cu.ft.		
		4.438	Cu.ft.		
Weight of iron works					
T- iron 2.5"x2.5"x0.25"		0.71	Kgs.		
Channels 2x17'-6"x4.07		64.61	Kgs.		
T-iron bracket at 2ft 9x1'-4"x3.22		17.48	Kgs.		
Bracket for pulley (J-shape) 4x1'-4"x3.22		7.77	Kgs.		
Total		90.58	Kgs.		
Wastage 10%		9.06	Kgs.		
		99.63	Kgs.		
Channel for pulley 8 x 0.67 x 10.2/2.2046		24.80	Kgs.		
Reg bolt 1/2" dia. 14 Nos. x 0.5 /2.2046		3.18	Kgs.		
M.S. flat 2" x 12' x 1.7/2.2046		18.51	Kgs.		
M.S. rod for handle 2 x 1'-3" x 2.67		3.03	Kgs.		
Rivets 3" long, 0.5" dia 48 x 6.2/ 2.2046		4.50	Kgs.		

a) Deodar wood frame

1. Labour					
Carpenter		16.00	Hrs	@ 125.00	2000.00
Black smith		6.00	Hrs	@ 112.00	672.00
Mason		4.00	Hrs	@ 125.00	500.00
Labourer		40.00	Hrs	@ 87.50	3500.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Total			6672.00	
Contractor's profit & overhead	20%		1334.40	
Total Labour rate			1126.13	1,126
Wood - deodar 1st class	4.438 Cu.ft. @	5000.00	22187.50	
Sawing charges	4.438 Cu.ft. @	87.50	388.28	
			22575.78	
G.I. sheet plain	40.45 Kg. @	130.00	5257.92	
T-Iron	99.63 Kg. @	75.00	7472.61	
Channel iron	24.80 Kg. @	77.00	1909.53	
Reg bolt	3.18 Kg. @	82.00	260.36	
M.S. flat	18.51 Kg @	75.00	1388.01	
M.S. rod	3.03 Kg @	55.00	166.53	
Iron screw 2"	36.00 No. @	10.00	360.00	
Iron screw 3/4"	33.00 No. @	7.00	231.00	
Rivets	4.50 Kg. @	90.00	404.97	
Iron sliding bolt 12" x 5/8"	1.00 No. @	150.00	150.00	
Cement conc.1:2:4 (Rate as in item 5-8(c))	0.55 Cu.m. @	260.65	143.36	
Excavation	0.55 Cu.m. @	60.35	33.19	
			17777.48	
Total materials cost			40353.26	
3. Equipment (Hire charges)				
Drill machine	1.50 Hrs @	60.00	90.00	
Total 2 & 3			40443.26	
Contractor's profit & overhead	20%		8088.65	
Total Composite rate			7952.32	7,952

b) Kail wood frame

1. Labour

Total Labour rate	Same as in item 16-13(a)		1126.13	1,126
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Wood - Kail 1st class	4.438 Cu.ft. @	3500.00	15531.25
Sawing charges	4.438 Cu.ft. @	87.50	388.28
			15919.53

Other materials same as in item 16-13(a)			17777.48
Total materials cost			33697.01

3. Equipment (Hire charges)

Drill machine	1.50 Hrs @	60.00	90.00
Total 2 & 3			33787.01

Contractor's profit & overhead	20%		6757.40	
Total Composite rate			6828.85	6,829

Item No. 16-14-1

Sq.m. Providing and fixing 1.25" (32mm) thick First class deodar wood sliding shutters fully glazed with 1/4" (6mm) thick glass panes including fixing guide rails, brass roller, same wood beading with putty packing, cutting and making good damage to walls and floors.

Detail of cost for 51.56 Sq.ft.

Considering a door opening 6' x 8' with double sliding shutters.

Area of shutters	6'-3" x 8'-3"	51.56	Sq.ft.
Deodar			
Vertical	2 x 2 x 8'-3" x 8" x 1.25"	2.292	Cu.ft.
Horizontal	2 x 2 x 3'-1.5" x 8" x 1.25"	0.867	Cu.ft.
Fillet (beading)	2x2 x(1'-11"+6'-9")2x 0.5"x 0.75"	0.181	Cu.ft.
		3.339	Cu.ft.
Wastage	20%	0.668	Cu.ft.
		4.007	Cu.ft.

Guide rails M.S. built up channel = 1.75" x 3" x 0.13"

Top & bottom	2 x 11'-9"	23.50	R.ft
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Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Side	2 x 8' -3"	16.50	R.ft		
		40.00	R.ft		
	Weight of guide rails 3.1 lbs./Rft.x 40	124.00	Lbs.		
	Weight of lug 20 x 0.47	9.40	Lbs.		
		133.40	Lbs.		
Wastage	5%	6.67	Lbs.		
		140.07	Lbs. =	63.54	Kg.
Glass panes	2x6'-9"x1'-11"	25.88	Sq.ft.		
Wastage	10%	2.59	Sq.ft.		
		28.46	Sq.ft. =	2.65	Sq.m.
Linseed oil putty	1/40 lb/R.ft x2x2(6.75+1.917)x2	1.73	Lbs.		
M.S. Sheet 1/8" thick 2 x6"x4.5"		0.38			
1. Labour					
Carpenter		24.00	Hrs @	125.00	3000.00
Black smith		6.00	Hrs @	112.00	672.00
Mason		4.00	Hrs @	125.00	500.00
Glazier		4.00	Hrs @	125.00	500.00
Labourer		8.00	Hrs @	87.50	700.00
Total					5372.00
Contractor's profit & overhead				20%	1074.40
Total Labour rate					1345.23
1,345					
2. Material					
Wood - deodar 1st class		4.007	Cu.ft. @	5000.00	20033.38
Sawing charges		4.007	Cu.ft. @	87.50	350.58
					20383.96
Guide rail & lugs		63.54	Kg. @	77.00	4892.22
M.S. sheet		1.00	Kg. @	75.00	75.00
Brass roller 1.5" dia		4.60	No. @	90.00	414.00
Glass 6 mm thick plain (imported)		2.65	Sq.m. @	1950.00	5158.26
Glue		0.059	Kg. @	160.00	9.45
Oil putty		0.785	Kg. @	90.00	70.63
					10619.56
Nails and screws				0.5%	53.10
Repairs to walls/floor material				1.5%	159.29
Total material cost					31215.91
3. Miscellaneous:					
Welding charges and sundries				1%	365.88
Contractor's profit & overhead				20%	6316.36
Total Composite rate					9253.77
9,254					

Item No. 16-15-1

Sq.m. Providing and fixing 1.25" (32mm) thick First class deodar wood sliding shutters partly panelled and partly glazed with 1/4" (6mm) thick glass panes including fixing guide rails, brass roller, same wood beading with putty packing, cutting and making good damage to walls and floors.

Detail of cost for 51.56 Sq.ft.

Considering a door opening 6' x 8' with double sliding shutters.

Area of shutters	6'-3" x 8'-3"	51.56	Sq.ft.
Quantity of timber:	2x2x8'-3"x8"x1.25"	2.292	Cu.ft.
	2x2'-5.5"x6"x1.25"	0.256	Cu.ft.
	2x2'-5.5"x8"x1.25"	0.341	Cu.ft.
	2x2'-5.5"x10"x1.25"	0.427	Cu.ft.
	2x1'-5.5"x4"x1.25"	0.101	Cu.ft.
	2x4'-0"x4"x1.25"	0.278	Cu.ft.
	2x2'-3"x4"x1.25"	0.156	Cu.ft.
Fillet (beading)	2x2(4'-0"+1'-5.5")2x0.5x0.5 =	0.076	Cu.ft.
Panels	2x2x2'-3"x1'-5.5"x3/4"	0.819	Cu.ft.

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
		4.746	Cu.ft.		
Wastage	20%	0.949	Cu.ft.		
		5.695	Cu.ft.		
Guide rails & lugs		140.07	Lbs. =	63.54	Kg.
Glass panes	2 x 2x 1'-0" x 4	16.00	Sq.ft.		
Wastage	10%	1.60	Sq.ft.		
		17.60	Sq.ft. =	1.64	Sq.m.
Linseed oil putty	1/40 x 2 x 2(1+4) x 2	1.00	Lbs.		
1. Labour					
Carpenter		24.00	Hrs @	125.00	3000.00
Black smith		12.00	Hrs @	112.00	1344.00
Mason		4.00	Hrs @	125.00	500.00
Glazier		2.00	Hrs @	125.00	250.00
Labourer		8.00	Hrs @	87.50	700.00
Total					5794.00
Contractor's profit & overhead				20%	1158.80
Total Labour rate					1450.90
					1,451
2. Material					
Wood - deodar 1st class		5.695	Cu.ft. @	5000.00	28473.53
Sawing charges		5.695	Cu.ft. @	87.50	498.29
					28971.81
Guide rail & lugs		63.54	Kg. @	77.00	4892.22
M.S. sheet		1.00	Kg. @	75.00	75.00
Brass roller 1.5" dia		4.00	No. @	90.00	360.00
Glass 6 mm thick plain (imported)		1.64	Sq.m. @	1950.00	3189.59
Glue		0.059	Kg. @	160.00	9.45
Oil putty		0.454	Kg. @	90.00	40.82
					8567.09
Nails and screws				0.5%	42.84
Repairs to walls/floor material				1.5%	128.51
Total material cost					37710.24
3. Miscellaneous					
Welding charges and sundries				1%	435.04
Contractor's profit & overhead				20%	7629.06
Total Composite rate					11003.04
					11,003

Item No. 16-16

Providing and fixing 1.5" (38mm) thick pressed veneered sliding shutters fully flushed with wood veneering on all faces and sides fixed over deodar wood cavities core and frame work of not less than 4" (100mm) wide strip all around including fixing guide rails, brass rollers, cutting and making good damages to walls and floor as required.

Detail of cost for 51.56 Sq.ft.

Considering a door opening 6' x 8' with double leaf veneered sliding shutters.

Area of shutters	6'-3" x 8'-3"	51.56	Sq.ft.
Quantity of Deodar wood			
Vertical pieces	2x2x8'-3"x6"x1.25"	1.719	Cu.ft.
Top & bottom pieces	2x2x3'-0"x6"x1.25"	0.625	Cu.ft.
Middle strips @ 6" c/c	2x14x3'-0"x4"x1.25"	2.917	Cu.ft.
		5.260	Cu.ft.
Wastage	40%	2.104	Cu.ft.
		7.365	Cu.ft.
Glue (paste)		1.50	Lbs.

Sq.m. a) Teak wood 3 ply

Materials

Faces and back	2 x 51.56	103.12	Sq.ft.
Sides	2 x 2 x 8'-3" x 1.5"	4.13	Sq.ft.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Top and bottom	2 x 2 x 3'-1.5" x 1.5"	1.56	Sq.ft.	
		108.81	Sq.ft.	
Wastage	10%	10.88	Sq.ft.	
		119.69	Sq.ft.	
1. Labour				
Total Labour rate	Same as in item 16-14			1345.25
				1,345
2. Materials				
Ply - teak 3 ply		119.69	Sq.ft. @ 60.00	7181.13
Other materials				
Wood - deodar 1st class		7.36	Cu.ft. @ 5000.00	36822.92
Sawing charges		7.36	Cu.ft. @ 87.50	644.40
Glue		0.682	Kg. @ 160.00	109.09
Guide rail, brass roller & M.S.sheet	Same as in item 16-14			5381.22
				50138.76
3. Miscellaneous:	Same as in item 16-14			365.88
Total of 2 & 3				50504.64
Contractor's profit & overhead			20%	11177.17
Total Composite rate				14216.94
				14,217

Sq.m. b) Commercial wood 3 ply

1. Labour				
Total Labour rate	Same as in item 16-14			1345.25
				1,345
2. Materials				
Ply - commercial 3 ply		119.69	Sq.ft. @ 35.00	4188.99
Other materials	Same as in item 16-16(a)			50138.76
3. Miscellaneous:	Same as in item 16-16(a)			365.88
Total of 2 & 3				54693.63
Contractor's profit & overhead			20%	10938.73
Total Composite rate				15041.33
				15,041

Item No. 16-17

Providing and fixing 1.5" (38mm) thick pressed veneered sliding shutters partly glazed with glass panes 7.3kg/Sq.m. and partly veneered with wood veneering on all faces and sides fixed over deodar wood cavities core and frame work of not less than 4" (100mm) wide strip all around including fixing guide rails, brass rollers, deodar wood beading with putty packing to glasses, cutting and making good damages to walls and floors as required but excluding the cost of extra glazing and grills sandwiched between glasses as required.

Detail of cost for 51.56 Sq.ft.

Area of shutters	6'-3" x 8'-3"	51.56	Sq.ft.
Quantity of wood			
Vertical pieces	2x2x8'-3"x6"x1.25"	1.719	Cu.ft.
Top and bottom pieces	2x2x3'x6"x1.25"	0.625	Cu.ft.
Middle strips at 6" c/c	2x2x2x(2-1.5)x2'-0"x1"	2.083	Cu.ft.
Deduct glazed portion	2x2x2'-1.5"x2'	0.014	Cu.ft.
		4.441	Cu.ft.
Wastage	20%	0.888	Cu.ft.
		5.329	Cu.ft.
Veneered board	Same as in item 16-16(a)	108.81	Sq.ft.
Add for glazing edging	2 x 2 x 2x2'-1.50"x2'-0"x1"	1.50	Sq.ft.
		110.31	Sq.ft.
Deduct glazed portion	2 x 2 x 2'-1.5" x 2'	16.96	Sq.ft.
		93.35	Sq.ft.
Wastage	10%	9.33	Sq.ft.
		102.68	Sq.ft.
Glass panes	2 x 2'-2.50" x 2'-1"	9.19	Sq.ft.
Wastage	10%	0.92	Sq.ft.

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

10.11 Sq.ft. = 0.94 Sq.m.

Sq.m. a) Teak wood 3 ply

1. Labour					
Total Labour rate	Same as in item 16-14			1345.25	1,345
2. Material					
Wood - deodar 1st class		5.329	Cu.ft. @	5000.00	26646.50
Sawing charges		5.329	Cu.ft. @	87.50	466.31
					27112.82
Brass roller 1.5" dia, M.S.sheet, glue, nails Same as per item 16-15					8567.09
Oil putty		0.20	Kg. @	90.00	17.59
Glass 6 mm thick plain (imported)		0.94	Sq.m. @	1950.00	1832.74
					37530.24
Ply - teak 3 ply		102.68	Sq.ft. @	60.00	6161.00
					43691.24
3. Miscellaneous:					365.88
Total of 2 & 3					44057.12
Contractor's profit & overhead				20%	8811.42
Total Composite rate					12377.79

Sq.m. b) Commercial wood 3 ply

1. Labour					
Total Labour rate	Same as in item 16-14			1345.25	1,345
2. Material					
Ply - commercial 3 ply		102.68	Sq.ft. @	35.00	3593.92
Other materials	Same as in item 16-17(a)				37530.24
Total					41124.15
3. Miscellaneous:					365.88
Total of 2 & 3					41490.03
Contractor's profit & overhead				20%	8298.01
Total Composite rate					11734.96

Item No. 16-18**Sq.m. a) Providing and fixing 1-1/2" (38mm) thick First class deodar wood shutters having 3/4" (19mm) thick batten, ledges and bracing battened, ledged and braced, making rebated or tongued and grooved joints with approved T- iron hinges and tower bolts as required.**

Detail of cost for 18.13 Sq.ft.

Considering a single leaf door of 7' x 3'

Area of shutters 6.79 x 2.67 18.13 Sq.ft.

Deodar wood

Planking 1x6.79x2.67x1/24" 0.755

Ledges 3x2.67x4"x1" 0.223

Braces 1x4.63x4"x1" 0.129

1.106

Wastage 20% 0.221

1.328

1. Labour

Carpenter 8.00 Hrs @ 125.00 1000.00

Labourer 3.00 Hrs @ 87.50 262.50

Total 1262.50

Contractor's profit & overhead 20% 52.50

Total Labour rate 780.47

780

2. Materials

Wood - deodar 1st class 1.11 Cu.ft. @ 5000.00 5550.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Sawing charges	1.11	Cu.ft. @ 87.50	97.13
	Iron butt hinge 4"	3	No. @ 75.00	225.00
	Iron tower bolt 9"	1	No. @ 90.00	90.00
	Iron tower bolt 6"	1	Nos. @ 75.00	75.00
	Iron screw 1.5"	18	No. @ 10.00	180.00
	Iron screw 1"	38	No. @ 8.00	304.00
	Glue	0.06	Kg. @ 160.00	9.45
				<u>6530.58</u>
	Contractor's profit & overhead		20%	1306.12
	Total Composite rate			<u>5431.66</u>
				5,432

Item No. 16-18

Sq.m. b) Providing and fixing 1-1/2" (38mm) thick Teak wood shutters having 3/4" (19mm) thick batten, ledges and bracing battened, ledged and braced, making rebated or tongued and grooved joints with approved T- iron hinges and tower bolts as required.

Detail of cost for 18.13 Sq.ft.

Considering a single leaf door of 7' x 3'

Area of shutters	6.79 x 2.67	18.13	Sq.ft.
Teak wood			
Planking	1.5x6.79x2.67x1.5/24"	0.755	
Ledges	3x2.67x4"x1"	0.223	
Braces	1x4.63x4"x1"	0.129	
		<u>1.106</u>	
Wastage	10%	0.111	
		<u>1.217</u>	

1. Labour

Carpenter	8.00	Hrs @ 125.00	1000.00
Labourer	3.00	Hrs @ 87.50	262.50
Total			<u>1262.50</u>
Contractor's profit & overhead		20%	52.50
Total Labour rate			<u>780.47</u>

780**2. Materials**

Wood - Teak	1.11	Cu.ft. @ 8000.00	8880.00
Sawing charges	1.11	Cu.ft. @ 87.50	97.13
Iron butt hinge 4"	3	No. @ 75.00	225.00
Iron tower bolt 9"	1	No. @ 90.00	90.00
Iron tower bolt 6"	1	Nos. @ 75.00	75.00
Iron screw 1.5"	18	No. @ 10.00	180.00
Iron screw 1"	38	No. @ 8.00	304.00
Glue	0.06	Kg. @ 160.00	9.45
			<u>9860.58</u>
Contractor's profit & overhead		20%	1972.12
Total Composite rate			<u>7803.35</u>

7,803**Item No. 16-19-1**

Sq.m. Providing and fixing 1.5" (38mm) thick First class deodar wood shutters fully fitted with iron bars 5/8" (16mm) dia at 4" (100mm) c/c including cost of iron bars, approved iron hinges, tower bolts as required.

Detail of cost for 24.92 Sq.ft.

Considering a single leaf door of 7' x 4'

Area of shutters	6.79x3.67	24.92	Sq.ft.
Deodar wood			
Rails	2x3.71x4"x1.5"	0.309	Cu.ft.
	2x3.71x9"x1.5"	0.696	Cu.ft.
Styles	4x7.79x4"x1.5"	1.298	Cu.ft.
		<u>2.303</u>	Cu.ft.
Wastage	20%	0.461	Cu.ft.
		<u>2.764</u>	Cu.ft.

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
5/8" dia bars	6 x 6.5 x 1.025 lbs./Rft	39.98	Lbs.		
Wastage	5%	2.00	Lbs.		
		<u>41.97</u>	Lbs. =	19.04	Kg.
1. Labour					
Carpenter		8.00	Hrs @	125.00	1000.00
Black smith		2.00	Hrs @	112.00	224.00
Labourer		4.00	Hrs @	87.50	350.00
Total					<u>1574.00</u>
Contractor's profit & overhead			20%		314.80
Total Labour rate					<u>815.57</u>
					816
2. Materials					
Wood - deodar 1st class		2.76	Cu.ft. @	5000.00	13818.75
Sawing charges		2.76	Cu.ft. @	87.50	241.83
Steel-Mild		19.04	Kg. @	82.00	1561.21
Iron butt hinge 4"		6	No. @	75.00	450.00
Iron tower bolt 9"		2	No. @	90.00	180.00
Iron tower bolt 6"		1	Nos. @	75.00	75.00
Iron screw 1.5"		48	No. @	10.00	480.00
Iron screw 1"		48	No. @	8.00	384.00
Glue		0.06	Kg. @	160.00	9.45
					<u>17200.24</u>
Contractor's profit & overhead			20%		3440.05
Total Composite rate					<u>9727.92</u>
					9,728

Item No. 16-20-1

Sq.m. Providing and fixing 1.5" (38mm) thick First class deodar wood shutters fully wire gauzed with galvanized iron wire gauze 24 gauge (1.06mm) and 12 mesh to 1" (25mm) with approved S.S butt hinges and tower bolts as required.

Detail of cost for 24.92 Sq.ft.

Considering a single leaf door of 7' x 4'

Area of shutters 6.79 x 3.67 24.92 Sq.ft.

Deodar wood

Rails 1x3.67x4"x1.5" 0.15 Cu.ft.

2x3.67x9"x1.5" 0.69 Cu.ft.

Styles 4x6.79x4"x1.5" 1.13 Cu.ft.

Beading 30.75x0.5"x0.5" 0.05 Cu.ft.

2.026 Cu.ft.

Wastage 20% 0.405 Cu.ft.

2.431 Cu.ft.

Wire gauze 4x2.67x1.33 14.20 Sq.ft.

Wastage 10% 1.42 Sq.ft.

15.62 Sq.ft.

1. Labour

Carpenter 8.00 Hrs @ 125.00 1000.00

Labourer 4.00 Hrs @ 87.50 350.00

Total 1350.00

Contractor's profit & overhead 20% 270.00

Total Labour rate 699.51

700

2. Materials

Wood - deodar 1st class 2.43 Cu.ft. @ 5000.00 12156.56

Sawing charges 2.43 Cu.ft. @ 87.50 212.74

G.I. wire gauze 15.62 Sq.ft. @ 130.00 2031.23

S.S spring hinges 6" - Single action 2 No. @ 300.00 600.00

S.S butt hinge 4" 6 No. @ 120.00 720.00

S.S tower bolt 9" 2 No. @ 100.00 200.00

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
	S.S tower bolt 6"	1	Nos. @	80.00	80.00	
	S.S screw 1.5"	48	No. @	15.00	720.00	
	S.S screw 1"	42	No. @	12.00	504.00	
	Glue	0.03	Kg. @	160.00	4.80	
					17229.33	
	Contractor's profit & overhead		20%		3445.87	
	Total Composite rate				9626.93	9,627

Item No. 16-21-1

Sq.m. Providing and fixing 1.25" (32mm) thick First class deodar wood shutters partly wire gauzed with galvanized iron wire gauze 24 gauge (1.06mm) and 12 mesh to an inch (25mm) and partly panelled with deodar wood, approved S.S butt hinges and tower bolts as required

Detail of cost for 24.92 Sq.ft. Considering a single leaf door of 7' x 4'

Area of shutters	6.79 x 3.67	24.92	Sq.ft.	
Rails	1 x 3.67 x 4" x 1.25"	0.127	Cu.ft.	
	2 x 3.67 x 9" x 1.25"	0.573	Cu.ft.	
Styles	4 x 6.79 x 4" x 1.25"	0.943	Cu.ft.	
Panels	2 x 2.67 x 1.33 x 0.052	0.369	Cu.ft.	
Beading	0.33 x 1" x 1"	0.002	Cu.ft.	
		2.016	Cu.ft.	
Wastage	20%	0.403	Cu.ft.	
		2.419	Cu.ft.	
Wire gauze	2 x 2.67 x 1.33	7.10	Sq.ft.	
Wastage	10%	0.71	Sq.ft.	
		7.81	Sq.ft.	

1. Labour

Carpenter	12.00	Hrs @	125.00	1500.00	
Labourer	4.00	Hrs @	87.50	350.00	
Total				1850.00	
Contractor's profit & overhead			20%	370.00	
Total Labour rate				958.58	959

2. Materials

Wood - deodar 1st class	2.43	Cu.ft. @	5000.00	12156.56	
Sawing charges	2.43	Cu.ft. @	87.50	212.74	
G.I. wire gauge	7.81	Sq.ft. @	130.00	1015.61	
S.S spring hinges 6" - Single action	2	No. @	300.00	600.00	
S.S butt hinge 4"	6	No. @	120.00	720.00	
S.S tower bolt 9"	2	No. @	100.00	200.00	
S.S tower bolt 6"	1	Nos. @	80.00	80.00	
S.S screw 1.5"	48	No. @	15.00	720.00	
S.S screw 1"	42	No. @	12.00	504.00	
Glue	0.11	Kg. @	160.00	18.18	
				16227.10	
Contractor's profit & overhead			20%	3245.42	
Total Composite rate				9366.70	9,367

Item No. 16-22-1

Sq.m. Providing and fixing 1.25" (32mm) thick First class deodar wood shutters fully fixed with expanded metal of 3/4"x2.5" (19mmx64mm) mesh 12 gauge (2.12mm) with approved S.S butt hinges and tower bolts as required

Detail of cost for 24.92 Sq.ft. Considering a single leaf door of 7' x 4'

Area of shutters	6.79 x 3.67	24.92	Sq.ft.	
1. Labour				
Carpenter	8.00	Hrs @	125.00	1000.00
Labourer	4.00	Hrs @	87.50	350.00
Total				1350.00
Contractor's profit & overhead			20%	270.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		699.51	700
	2. Materials			
	Wood - deodar 1st class Same as in item 16 - 20	2.42	Cu.ft. @ 5000.00	12093.18
	Sawing charges	2.42	Cu.ft. @ 87.50	211.63
	Expanded metal Same as in item 16 - 20	15.62	Sq.ft. @ 58.55	914.55
	S.S butt hinge 4"	6	No. @ 120.00	720.00
	S.S tower bolt 9"	2	No. @ 100.00	200.00
	S.S tower bolt 6"	1	Nos. @ 80.00	80.00
	S.S screw 1.5"	48	No. @ 15.00	720.00
	S.S screw 1"	42	No. @ 12.00	504.00
	Glue	0.06	Kg. @ 160.00	9.45
				15452.82
	Contractor's profit & overhead		20%	3090.56
	Total Composite rate			8706.42

Item No. 16-23-1

Sq.m. Providing and fixing 1.25" (32mm) thick First class deodar wood stair case fixed glazing with glass panes 24 oz.(7.3 kg/sq.m.) deodar wood beading and putty packing as required.

Detail of cost for 143.5 Sq.ft.

Considering a stair case glazing 3' - 6" wide and 41' high with two vertical and four horizontal scantling 3" wide and 1.25" thick, vertical & horizontal sashes at 14.5" centres in three parts.

Area of stair case	41.0x3.50	143.50	Sq.ft.
Deodar wood			
Vertical pieces	2x41.0x3"x1.25"	2.135	Cu.ft.
Horizontal pieces	4x3.33x3"x1.25"	0.347	Cu.ft.
Vertical sashes	3x13'-6"x1.50"x1.25"	0.527	Cu.ft.
Horizontal sashes	3x9x3'-1.50"x1.50"x1.25"	1.097	Cu.ft.
Glass panes beading	3x10x2(1'-6"+1'-2.5")x1/2x1/2	0.282	Cu.ft.
		4.388	Cu.ft.
Wastage	20%	0.878	Cu.ft.
		5.266	Cu.ft.
Oil putty packing	1/40x30x2x2(1'-6"+1'-2.5")	8.13	Lbs.
Glass panes	30x2x1.50x1.21	108.90	Sq.ft.
Wastage	10%	10.89	Sq.ft.
		119.79	Sq.ft.

1. Labour

Carpenter	75.00	Hrs @	125.00	9375.00
Mason	10.00	Hrs @	125.00	1250.00
Glazier	26.00	Hrs @	125.00	3250.00
Labourer	18.50	Hrs @	87.50	1618.75
Total				15493.75
Contractor's profit & overhead			20%	3098.75
Total Labour rate				1394.11

2. Materials

Wood - deodar 1st class	5.27	Cu.ft. @	5000.00	26330.94
Sawing charges	5.27	Cu.ft. @	87.50	460.79
Rawal plug 3" long	170	No. @	8.93	1518.10
Iron screw 3"	173	No. @	10.00	1730.00
Nail of all sizes	0.34	Kg. @	90.00	30.68
Glass 5 mm thick plain (local)	119.79	Sq.ft. @	120.00	14374.80
Oil putty	3.70	Kg. @	90.00	332.59
Glue	1.14	Kg. @	160.00	181.82
				44959.72
Contractor's profit & overhead			20%	8991.94
Total Composite rate				5439.55

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-24

Providing and fixing 1.25" (32mm) thick First class deodar wood swing shutters fully panelled including iron helical spring hinges as required.

Sq.m. a) Panelled with deodar wood

Detail of cost for 10.5 Sq.ft.

Considering a double leaf door shutter

Area		10.50	Sq.ft.
Deodar wood Styles	2x3'-0"x3"x1.25"	0.156	Cu.ft.
	2x3'-3"x3"x1.25"	0.169	Cu.ft.
Rails	4x1.75x3"x1.25"	0.182	Cu.ft.
Panels	2x1'-4"x2'-7"x0.5"	0.286	Cu.ft.
Total		0.794	Cu.ft.
Wastage	20%	0.159	Cu.ft.
		0.953	Cu.ft.

1. Labour

Carpenter	8.75	Hrs @	125.00	1093.75
Labourer	2.00	Hrs @	87.50	175.00
Total				1268.75
Contractor's profit & overhead			20%	253.75
Total Labour rate				1560.20

1,560**2. Materials**

Wood - deodar 1st class	0.953	Cu.ft. @	5000.00	4764.57
Sawing charges	0.953	Cu.ft. @	87.50	83.38
Iron helical spring hinges 4"	4.00	No. @	125.00	500.00
Iron screw 1"	36	No. @	8.00	288.00
				5635.95
Contractor's profit & overhead			20%	1127.19
Total Composite rate				8490.81

8,491**Sq.m. b) Panelled with 5/16" (8 mm) hard board**

Detail of cost for 10.5 Sq.ft.

Considering a double leaf door shutter

Area		10.50	Sq.ft.
Deodar wood:			
Styles	2 x 3'-0" x 3" x 1.25"	0.156	Cu.ft.
	2 x 3'-3" x 3" x 1.25"	0.169	Cu.ft.
Rails	4 x 1.75 x 3" x 1.25"	0.182	Cu.ft.
Total		0.508	Cu.ft.
Wastage	30%	0.152	Cu.ft.
		0.660	Cu.ft.
Hard board	2 x 1.33 x 2.58	6.863	Sq.ft.
Wastage	20%	1.373	Sq.ft.
		8.24	Sq.ft.

1. Labour

Carpenter	4.00	Hrs @	125.00	500.00
Labourer	2.00	Hrs @	87.50	175.00
Total				675.00
Contractor's profit & overhead			20%	135.00
Total Labour rate				830.06

830**2. Materials**

Wood - deodar 1st class	0.660	Cu.ft. @	5000.00	3300.78
Sawing charges	0.660	Cu.ft. @	87.50	57.76
Hard board 8 mm thick	8.24	Sq.ft. @	40.00	329.41
Iron helical spring hinges 4"	4	No. @	125.00	500.00
Iron screw 1"	36	No. @	8.00	288.00
				4475.96
Contractor's profit & overhead			20%	895.19

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	6334.21	6,334
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Item No. 16-25-1

Sq.m. Providing and fixing 1.25" (32mm) thick First class deodar wood swing shutters fully glazed with glass panes 5mm thick, deodar wood beading with putty packing to glasses with iron helical spring hinges as required.

Detail of cost for 10.5 Sq.ft.

Considering a double leaf door shutter, Area = 10.50 Sq.ft.

Deodar wood:

Same as in item 16-24(b) 0.508 Cu.ft.

Beading 0.027 Cu.ft.

0.535 Cu.ft.

Wastage 30% 0.160 Cu.ft.

0.695 Cu.ft.

1. Labour

Carpenter 4.00 Hrs @ 125.00 500.00

Glazier 3.00 Hrs @ 125.00 375.00

Labourer 2.00 Hrs @ 87.50 175.00

Total 1050.00

Contractor's profit & overhead 20% 210.00

Total Labour rate 1291.20 **1,291**

2. Materials

Wood - deodar 1st class 0.695 Cu.ft. @ 5000.00 3476.28

Sawing charges 0.695 Cu.ft. @ 87.50 60.83

Iron helical spring hinges 4" 4.00 No. @ 125.00 500.00

Iron screw 1" 36 No. @ 8.00 288.00

Glass 5 mm thick local, Same as in item 16-24 (b) 8.24 Sq.ft. @ 120.00 988.24

Oil putty 0.18 Kg. @ 90.00 16.36

Nails and glue 1.5% 79.95

5409.67

Contractor's profit & overhead 20% 1081.93

Total Composite rate 7943.55 **7,944**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-26-1

Sq.m. Providing and fixing 1.25" (32mm) thick pressed veneered swing shutters fully flushed with teakwood veneering 1/8" (3mm) thick on all faces and sides fixed over deodar wood cavitied core framework of not less than 4" (100mm) wide strip allround with brass double action helical spring hinges as required.

Detail of cost for 10.5 Sq.ft.

Size of door	3' x 3'-6"	10.50	Sq.ft.
Deodar wood:			
Vertical pieces	4 x 3'-0" x 4" x 1"	0.333	Cu.ft.
Horizontal pieces	2 x 2 x 1'-8" x 4" x 1"	0.185	Cu.ft.
Middle strips	4 x 2 x 1'-8" x 4" x 1"	0.370	Cu.ft.
		<u>0.889</u>	Cu.ft.
Wastage	20%	0.178	Cu.ft.
		<u>1.067</u>	Cu.ft.
Teak wood ply 1/8" thick:			
Face & back	2 x 3' x 1'-9"	10.50	Sq.ft.
Sides	2 x 2 x 3' -1.5"	12.48	Sq.ft.
Top & bottom	2 x 2 x 1'-9"	7.00	Sq.ft.
		<u>29.98</u>	Sq.ft.
Wastage	10%	3.00	Sq.ft.
		<u>32.98</u>	Sq.ft.

1. Labour

Carpenter	4.00	Hrs @	125.00	500.00
Glazier	1.00	Hrs @	125.00	125.00
Labourer	1.00	Hrs @	87.50	87.50
Total				<u>712.50</u>
Contractor's profit & overhead			20%	142.50
Total Labour rate				<u>876.17</u>

876

2. Materials

Ply - teak 3 ply	32.98	Sq.ft. @	60.00	1978.68
Wood - deodar 1st class	1.067	Cu.ft. @	5000.00	5334.00
Sawing charges	1.067	Cu.ft. @	87.50	93.35
Brass helical spring 4" - double action	4	No. @	550.00	2200.00
Brass screw 1" size	36	No. @	4.80	172.80
Glue	0.68	Kg. @	160.00	109.09
				<u>9887.92</u>
Contractor's profit & overhead			20%	1977.58
Total Composite rate				<u>13035.48</u>

13,036

Item No. 16-27

Providing and fixing First class deodar wood trellis work (jafri) with battens forming aperatures 1.5"x1.5" (38mmx38 mm) but excluding cost of frame work as required.

Sq.m. a) 3/8" x 1.5" (9 mm x 38 mm) battens forming aperature

Detail of cost for 50 Sq.ft.

Considering a trellis 10' x 5'	50	Sq.ft.
Deodar wood:		
Hor.battens @ 3" c/c 19x10'x1.50"x3/8"	0.742	Cu.ft.
Ver.battens @ 3" c/c 39x5'x1.50"x3/8"	0.762	Cu.ft.
	<u>1.504</u>	Cu.ft.
Wastage	20%	0.301
		<u>1.805</u>

1. Labour

Carpenter	14.75	Hrs @	125.00	1843.75
Labourer	3.00	Hrs @	87.50	262.50
Total				<u>2106.25</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	421.25	
	Total Labour rate		543.92	544
2. Materials				
	Wood - deodar 1st class	1.805	Cu.ft. @ 5000.00	9025.00
	Sawing charges	1.805	Cu.ft. @ 87.50	157.94
	Iron screw 1.25	120	No. @ 8.00	960.00
	Nail of all sizes	0.45	Kg. @ 90.00	40.91
	Total material			10183.85
	Contractor's profit & overhead	20%	2036.77	
	Total Composite rate		3173.79	3,174

Sq.m. b) 1/2" x 1.5" (13 mm x 38 mm) battens forming aperture

Detail of cost for 50 Sq.ft.

Considering a trellis 10' x 5'

50 Sq.ft.

Deodar wood:

Hor. battens @ 3" c/c 19 x 10' x 1.50" x 1/2"

0.990 Cu.ft.

Ver. battens @ 3" c/c 39 x 5' x 1.50" x 1/2"

1.016 Cu.ft.

2.005 Cu.ft.

Wastage 20%

0.401 Cu.ft.

2.406 Cu.ft.

1. Labour

Carpenter 14.75 Hrs @ 125.00 1843.75

Labourer 3.00 Hrs @ 87.50 262.50

Total 2106.25

Contractor's profit & overhead 20% 421.25

Total Labour rate 543.92

544

2. Materials

Wood - deodar 1st class 2.406 Cu.ft. @ 5000.00 12030.00

Sawing charges 2.406 Cu.ft. @ 87.50 210.55

Iron screw 1.25 120 No. @ 8.00 960.00

Nail of all sizes 0.45 Kg. @ 90.00 40.91

Total material 13241.46

Contractor's profit & overhead 20% 2648.29

Total Composite rate 3963.39

3,963

Sq.m. c) Extra over item 16-27 (a or b) for providing doors or windows frame 2"x1.5" (50mmx32mm) in trellis (jafri) work of First class deodar wood including cost of wood work approved iron hinges and tower bolts (clear opening to be measured).

Detail of cost for 21 Sq.ft.

Considering a door of double shutter 7 x 3'

21.00 Sq.ft.

Deodar wood:

Frame 1 x 3'-4" x 2" x 1.25" 0.058 Cu.ft.

2 x 7'-4" x 2" x 1.25" 0.255 Cu.ft.

Shutter frame 4 x 7'-0" x 2" x 1.25" 0.486 Cu.ft.

4 x 1'-6" x 2" x 1.25" 0.104 Cu.ft.

0.903 Cu.ft.

Wastage 20%

0.181 Cu.ft.

1.083 Cu.ft.

1. Labour

Carpenter 5.75 Hrs @ 125.00 718.75

Contractor's profit & overhead 20% 143.75

Total Labour rate 441.93

442

2. Materials

Wood - deodar 1st class 1.083 Cu.ft. @ 5000.00 5415.63

Sawing charges 1.083 Cu.ft. @ 87.50 94.77

Iron hinges 4" size 6 No. @ 25.00 150.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Iron tower bolt 6"	2	No. @ 75.00	150.00
	Iron screw 1"	36	No. @ 8.00	288.00
	Nail of all sizes	0.14	Kg. @ 90.00	12.27
				<u>6110.67</u>
	Contractor's profit & overhead		20%	1222.13
	Total Composite rate			<u>4199.12</u>
				4,199

Item No. 16-28-1

Sq.m. Providing and fixing 1.25" (32mm) thick First class deodar wood partition fully panelled with the same wood as required

Detail of cost for 112 Sq.ft.

Considering a partition 16' x 7' 112.00 Sq.ft.

Deodar wood

Styles 3x4x6.67x3"x5/48" 2.084 Cu.ft.

Rails 3x4x5'-1.5"x3"x5/48" 1.600 Cu.ft.

Panels 3x3x6'x1'-3"x5/96" 4.219 Cu.ft.

Total 7.903 Cu.ft.

Wastage 20% 1.581 Cu.ft.

9.484 Cu.ft.

1. Labour

Carpenter 50.00 Hrs @ 125.00 6250.00

Labourer 44.00 Hrs @ 87.50 3850.00

Total 10100.00

Contractor's profit & overhead 20% 2020.00

Total Labour rate 1164.39

1,164

2. Materials

Wood - deodar 1st class 9.484 Cu.ft. @ 5000.00 47418.75

Sawing charges 9.484 Cu.ft. @ 87.50 829.83

Glue 0.45 Kg. @ 160.00 72.73

48321.31

Contractor's profit & overhead 20% 9664.26

Total Composite rate 6735.14

6,735

Item No. 16-29-1

Sq.m. Providing and fixing 1.25" (32mm) thick First class deodar wood partition fully glazed with glass panes 6 mm with deodar wood beading with putty packing to glasses as required.

Detail of cost for 112 Sq.ft.

Considering a partition 16' x 7' 112.00 Sq.ft.

Deodar wood

Styles 3 x 4 x 6.67 x 3" x 5/48" 2.084 Cu.ft.

Rails 3 x 2 x 5'-1.5" x 3" x 5/48" 0.800 Cu.ft.

Sash bars 3x8x1.13x3/32x5/48 1.202 Cu.ft.

Beading for glass 3x3x2(6'-0"+1'-6.5")0.5x0.5 0.236 Cu.ft.

4.322 Cu.ft.

Wastage 20% 0.864 Cu.ft.

5.187 Cu.ft.

Glass panes 3x3x6x1.5 81.0 Sq.ft.

Wastage 10% 8.10 Sq.ft.

89.10 Sq.ft.

Linseed oil putty 1/40x3x3x2(6'-0"+1'-6") 3.38 Lbs.

1. Labour

Carpenter 60.00 Hrs @ 125.00 7500.00

Glazier 24.00 Hrs @ 125.00 3000.00

Labourer 5.25 Hrs @ 87.50 459.38

Total 10959.38

Contractor's profit & overhead 20% 2191.88

Total Labour rate 1263.46

1,263

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Materials

Wood - deodar 1st class	5.187	Cu.ft.	@	5000.00	25935.00
Sawing charges	5.187	Cu.ft.	@	87.50	453.85
Glass 6 mm thick plain (imported)	89.10	Sq.ft.	@	181.23	16147.30
Oil putty	1.533	Kg.	@	90.00	137.98
Glue	0.45	Kg.	@	160.00	72.73
					<u>42746.87</u>
Contractor's profit & overhead				20%	8549.37
Total Composite rate					<u>6191.56</u>

6,192

Item No. 16-30-1

Sq.m. Providing and fixing wooden partition fully flushed with hard board 5/16" (8mm) thick on one face fixed on First class deodar wood frame 3"x1.25" (75mmx32mm) at spacing not exceeding 24" (600mm) horizontal and 18" (450mm) vertical including necessary wooden beading as required.

Detail of cost for 112 Sq.ft.

Considering a partition of 16' x 7'	112	Sq.ft.			
Deodar wood					
Vertical 9x7x3"x5/48"	1.641	Cu.ft.			
Horizontal 5x16x3"x5/48"	2.083	Cu.ft.			
Beading:					
Vertical 9x7x1/12x1/24	0.219	Cu.ft.			
Horizontal 5x16x1/12x1/12	0.278	Cu.ft.			
	<u>4.220</u>	Cu.ft.			
Wastage 20%	0.844	Cu.ft.			
	<u>5.065</u>	Cu.ft.			
5/16" thick hard board (masonite)	112.00	Sq.ft.			
Wastage 10%	11.20	Sq.ft.			
	<u>123.20</u>	Sq.ft.			

1. Labour

Carpenter	45.00	Hrs	@	125.00	5625.00
Labourer	5.25	Hrs	@	87.50	459.38
Total					<u>6084.38</u>
Contractor's profit & overhead				20%	1216.88
Total Labour rate					<u>701.44</u>

701

2. Materials

Wood - deodar 1st class	5.09	Cu.ft.	@	5000.00	25445.00
Sawing charges	5.20	Cu.ft.	@	87.50	455.00
Hard board 8 mm thick	123.20	Sq.ft.	@	40.00	4928.00
Glue	0.455	Kg.	@	160.00	72.73
Nail of all sizes	1.136	Kg.	@	90.00	102.27
					<u>31003.00</u>
Contractor's profit & overhead				20%	6200.60
Total Composite rate					<u>4275.64</u>

4,276

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-31-1

Sq.m. Providing and fixing wooden partition fully flushed with hard board 5/16" (8mm) thick on both faces fixed on partial wood frame 3"x1.25" (75 mm x 32 mm) at spacing not exceeding 24" (600 mm) horizontal and 18" (450 mm) vertical including necessary wooden beading as required.

Detail of cost for 112 Sq.ft.

Considering a partition of 16' x 7'		112	Sq.ft.
Partial wood		4.220	Cu.ft.
Wastage	20%	0.844	Cu.ft.
		<u>5.065</u>	Cu.ft.
Hard Board			
Faces	2 x 16' x 7'	224	Sq.ft.
Top & bottom	2 x 7 x 1.5	1.75	Sq.ft.
Other	2 x 16 x 1.5	4.00	Sq.ft.
		<u>229.75</u>	Sq.ft.
Wastage	10%	22.98	Sq.ft.
		<u>252.73</u>	Sq.ft.

1. Labour

Carpenter	45.00	Hrs	@	125.00	5625.00
Labourer	5.25	Hrs	@	87.50	459.38
Total					<u>6084.38</u>
Contractor's profit & overhead				20%	1216.88
Total Labour rate					<u>701.44</u>

701

2. Materials

Wood - Partial	5.06	Cu.ft.	@	1200.00	6077.50
Sawing charges	5.06	Cu.ft.	@	87.50	443.15
Hard board 8 mm thick	252.73	Sq.ft.	@	40.00	10109.20
Glue	0.682	Kg.	@	160.00	109.09
Nail of all sizes	1.136	Kg.	@	90.00	102.27
					<u>16841.21</u>
Contractor's profit & overhead				20%	3368.24
Total Composite rate					<u>2642.99</u>

2,643

Item No. 16-32-1

Sq.m. Providing and fixing 2" (50mm) thick First class deodar wood shutters framed (2"x2.5") braced and flushed with plain G.I. sheet 24 gauge (1.05mm) for garrage and godown including cost of male and female hinges, locking arrangement and other iron fittings, cutting walls and making good the same as required.

Detail of cost for 80 Sq.ft.

Considering a shutter 10' x 8' with frame 2" x 2.5" double	80.00	Sq.ft.	
Deodar			
Vertical	2 x 2 x 8' x 2" x 2.5"	1.111	Cu.ft.
Horizontal	2 x 5 x 4'-10" x 2" x 2.5"	1.678	Cu.ft.
Vertical	2 x 2 x 3'-10" x 2" x 2.5"	0.532	Cu.ft.
		<u>3.322</u>	Cu.ft.
Wastage	20%	0.664	Cu.ft.
		<u>3.986</u>	Cu.ft.
Plain G.I. sheet 24 gauge = 2x5'0"x8'-0"	80.00	Sq.ft.	
Wastage	10%	8.00	Sq.ft.
		<u>88.00</u>	Sq.ft.

Weight @ 1.14 lb/sq.ft. 100.32 lbs. = 45.60 Kg.

1. Labour

Carpenter	45.00	Hrs	@	125.00	5625.00
Black smith	12.00	Hrs	@	112.00	1344.00
Mason	2.00	Hrs	@	125.00	250.00
Labourer	12.00	Hrs	@	87.50	1050.00
Total					<u>8269.00</u>
Contractor's profit & overhead				20%	1653.80
Total Labour rate					<u>1334.62</u>

1,335

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	Wood - deodar 1st class	3.986	Cu.ft. @ 5000.00	19929.58
	Sawing charges	3.986	Cu.ft. @ 87.50	348.77
	G.I. sheet plain	45.60	Kg. @ 130.00	5928.00
				<u>26206.35</u>
	Iron handle 6"	2	No. @ 106.25	212.50
	Male or female hinges	4	No. @ 112.50	450.00
	Iron sliding bolt 15" x 3/4"	1	No. @ 175.00	175.00
	Iron screw 1"	96	No. @ 8.00	768.00
	Glue	0.227	Kg. @ 160.00	36.36
	Cement sand 1 : 3	0.08	Cu.m. @ 2538.0	203.04
				<u>1844.90</u>
	Total materials cost			28051.25
	Contractor's profit & overhead		20%	368.98
	Total Composite rate			<u>5157.14</u>
				5,157

Item No. 16-33-1

Sq.m. Providing and fixing 2" (50mm) thick First class deodar wood fully panelled shutters for garrage and/or godown including cost of male and female hinges, locking arrangement and other iron fittings, cutting walls and making good the same as required.

Detail of cost for 80 Sq.ft.

Considering a shutter 10' x 8' with frame 2"x2.5" double leaf	80.00	Sq.ft.
Deodar		
Top rail 2 x 5'-0" x 4" x 2"	0.556	Cu.ft.
Bottom rail 2 x 5'-0" x 6" x 2"	0.833	Cu.ft.
Intermediate rail 3 x 2 x 4'-0" x 4" x 2"	1.333	Cu.ft.
Hanging styles 2 x 2 x 7'-2" x 6" x 2"	2.389	Cu.ft.
Other 2 x 2 x 1'-6" x 4" x 2"	0.333	Cu.ft.
Bead flush panels 8 x 2 x 1'-6" x 1'-10" x 0.75"	2.745	Cu.ft.
	<u>8.190</u>	Cu.ft.
Wastage 40%	3.276	Cu.ft.
	<u>11.465</u>	Cu.ft.

1. Labour

Carpenter	60.00	Hrs @ 125.00	7500.00
Mason	4.00	Hrs @ 125.00	500.00
Labourer	24.00	Hrs @ 87.50	2100.00
Total			<u>10100.00</u>
Contractor's profit & overhead		20%	2020.00
Total Labour rate			<u>1630.14</u>

1,630

Wood - deodar 1st class	11.465	Cu.ft. @ 5000.00	57325.00
Sawing charges	11.465	Cu.ft. @ 87.50	1003.19
			<u>58328.19</u>
Hardware & mortar Same as in item 16-32			1844.90
Total materials cost			<u>60173.09</u>
Contractor's profit & overhead		20%	12034.62
Total Composite rate			<u>11342.08</u>

11,342

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-34-1

Sq.m. Providing and fixing First class deodar wood 3" thick gate as per design approved by the Engineer in charge with necessary male and female hinges, stopper, locking arrangements, cutting wall and making good the same as required.

Detail of cost for 72 Sq.ft.

Taking a gate 12' x 6'	72.00	Sq.ft.
Deodar wood		
Top and bottom horizontal = 4 x 5'-3" x 5" x 3"	2.188	Cu.ft.
Vertical 2 x 5'-6" x 5" x 3"	1.146	Cu.ft.
Vertical 2x6'-6"x5"x3"	1.354	Cu.ft.
Cross diagonals 4x7'-7.5"x4"x3"	2.543	Cu.ft.
Struts: 4x2'-9"x4"x3"	0.917	Cu.ft.
4x2'-7.5"x4"x3"	0.877	Cu.ft.
4x1'-1.5"x4"x3"	0.373	Cu.ft.
4x1'-2.25"x4"x3"	0.403	Cu.ft.
	<u>9.801</u>	Cu.ft.
Wastage 30%	2.940	Cu.ft.
	<u>12.741</u>	Cu.ft.

1. Labour

Carpenter	37.50	Hrs @	125.00	4687.50
Black smith	2.50	Hrs @	112.00	280.00
Mason	2.00	Hrs @	125.00	250.00
Labourer	12.00	Hrs @	87.50	1050.00
Total				<u>6267.50</u>
Contractor's profit & overhead			20%	1253.50
Total Labour rate				<u>1123.97</u>

1,124

2. Material

Wood - deodar 1st class	12.741	Cu.ft. @	5000.00	63705.00
Sawing charges	12.741	Cu.ft. @	87.50	1114.84
Male or female hinges	4	No. @	112.50	438.75
Iron sliding bolt 15" x 3/4"	2	No. @	175.00	350.00
Stopper brass	2	Nos. @	378.00	756.00
Flat iron	1	Kg. @	80.00	80.00
Iron screw 1"	96	No. @	8.00	768.00
Glue	0.227	Kg. @	160.00	36.36
Cement sand 1 : 3	0.08	Cu.m. @	2538.0	203.04
				<u>67451.99</u>
Contractor's profit & overhead			20%	13490.40
Total Composite rate				<u>13220.36</u>

13,220

Item No. 16-35-1

Sq.m. Providing and fixing 3/4" (19mm) thick First class deodar wood tongued and grooved plain boarding, or lining on walls, jambs, skirting, cornice, chair rails and archivolt fixed on deodar wood frame backing with rawl plugs on screws, but excluding cost of backing and polishing as required.

Detail of cost for 100 Sq.ft.

Considering a boarding for a room 10'x10'	100	Sq.ft.
Deodar wood:		
Boarding 1x10'x10'x3/48	6.25	Cu.ft.
Tongue and grooved @ 5%	0.313	Cu.ft.
	<u>6.563</u>	Cu.ft.
Wastage 20%	1.313	Cu.ft.
	<u>7.875</u>	Cu.ft.

1. Labour

Carpenter	82.00	Hrs @	125.00	10250.00
Labourer	12.00	Hrs @	87.50	1050.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total			11300.00	
Contractor's profit & overhead	20%		2260.00	
Total Labour rate			1459.06	1,459

2. Material

Wood - deodar 1st class	7.875	Cu.ft.	@ 5000.00	39375.00
Sawing charges	7.875	Cu.ft.	@ 87.50	689.06
Iron screw 1.5"	150	No.	@ 10.00	1500.00
Glue	0.455	Kg.	@ 160.00	72.73
				41636.79
Contractor's profit & overhead	20%			8327.36
Total Composite rate				6,835

Sq.m. **Item No. 16-36-1**

Providing and fixing 1/2" (13mm) thick First class deodar wood panelling in framework 3"x1.5" (75mmx38mm) of same wood on walls, jambs, skirting, cornice, chair rails and archivolt fixed on framed deodar wood backing with rawl plugs or screws but excluding the cost of backing and polishing as required.

Detail of cost for 100 Sq.ft.

Considering a panelling 10'x10'	100	Sq.ft.		
Deodar wood:frame				
Horizontal	2x10'x3"x1.5"	0.63	Cu.ft.	
	1x9'-6"x3"x1.5"	0.30	Cu.ft.	
Vertical	2x10'-6"x3"x1.5"	0.66	Cu.ft.	
	1x9'-9"x3"x1.5"	0.30	Cu.ft.	
Panels	2x2x4'-10"x4'-10"x0.5"	3.89	Cu.ft.	
		5.776	Cu.ft.	
Grooving	5%	0.289	Cu.ft.	
		6.065	Cu.ft.	
Wastage	20%	1.213	Cu.ft.	
		7.28	Cu.ft.	

1. Labour

Carpenter	64.00	Hrs	@ 125.00	8000.00
Labourer	24.00	Hrs	@ 87.50	2100.00
Total				10100.00
Contractor's profit & overhead	20%			2020.00
Total Labour rate				1,304

2. Material

Wood - deodar 1st class	7.28	Cu.ft.	@ 5000.00	36387.50
Sawing charges	7.28	Cu.ft.	@ 87.50	636.78
Brass screw 1" size	150	No.	@ 4.80	720.00
Glue	0.455	Kg.	@ 160.00	72.73
				37817.01
Contractor's profit & overhead	20%			7563.40
Total Composite rate				6,187

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-37-1

Cu.m. Providing and fixing 1" (25mm) deodar wood frame backing of approved shape and section in wall panelling or lining, skirting, cornice, chair rails and archivolt fixed with screws or rawl plugs as required.

Detail of cost for 3.06 Cu.ft.

Considering a bracing over wall 10' x 10' with battens 2" x 1" @ 12" c/c bothways.

Cubical content	2x11.0x10.0x2/12x1/12	3.056	Cu.ft.
Wastage	15%	0.458	Cu.ft.
		<u>3.514</u>	Cu.ft.

1. Labour

Carpenter	5.00	Hrs @	125.00	625.00
Mason	3.00	Hrs @	125.00	375.00
Labourer	2.00	Hrs @	87.50	175.00
Total				<u>1175.00</u>
Contractor's profit & overhead			20%	235.00
Total Labour rate				<u>16293.96</u>

16,294

2. Material

Wood - deodar 1st class	3.51	Cu.ft. @	5000.00	17550.00
Sawing charges	3.51	Cu.ft. @	87.50	307.13
Iron screw 2"	96	No. @	10.00	960.00
Rawal plug 2.5" long	100	No. @	6.62	662.00
Glue	0.045	Kg. @	160.00	7.27
				<u>19486.40</u>
Contractor's profit & overhead			20%	3897.28
Total Composite rate				<u>286515.73</u>

286,516**Item No. 16-38-1**

Sq.m. Providing and fixing 1" (2 mm) deodar wood planking in shelves, almirahs with deodar wood batten 1"x1.5" (25mmx38mm) fixed in walls with screws or rawl plugs as required.

Detail of cost for 24 Sq.ft.

Considering one inch thick planking of an almirah 4' wide and 1'-6" deep in four tiers

Area	4x4.0x1.5	24.00	Sq.ft.
Deodar wood:			
Planks	4x4'x1.5'x1/12	2.00	Cu.ft.
Battens	4x2x1.5x1/12x3/24	0.13	Cu.ft.
		<u>2.13</u>	Cu.ft.
Wastage	20%	0.43	Cu.ft.
		<u>2.55</u>	Cu.ft.

1. Labour

Carpenter	2.75	Hrs @	125.00	343.75
Labourer	1.00	Hrs @	87.50	87.50
Total	3.00			<u>431.25</u>
Contractor's profit & overhead			20%	86.25
Total Labour rate				<u>232.01</u>

232

2. Material

Wood - deodar 1st class	2.55	Cu.ft. @	5000.00	12750.00
Sawing charges	2.55	Cu.ft. @	87.50	223.13
Iron screw 1.5"	24	No. @	10.00	240.00
Iron screw 2"	24	No. @	10.00	240.00
Rawal plug 2.5" long	25	No. @	6.62	165.50
Glue	0.045	Kg. @	160.00	7.27
				<u>13625.90</u>
Contractor's profit & overhead			20%	2725.18
Total Composite rate				<u>7562.75</u>

7,563

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-39-1

Sq.m. Providing and fixing 1" (25mm) deodar wood planking in shelves on deodar wood brackets each having cross sectional area approx. 4 sq.inches (26 sq.cm.) and spaced at 4 ft. (1.2m) c/c fixed to walls with screws or rawl plugs as required.

Detail of cost for 32 Sq.ft.

Considering a planking 16' x 2' wide

Area	16' x 2'	32.00	Sq.ft.
Deodar wood:			
Planks	16' x 2' x 1/12	2.667	Cu.ft.
Brackets	6x2'-0"x2.5"x1.5"	0.313	Cu.ft.
	6x2'-1"x2.5"x1.5"	0.325	Cu.ft.
	6x1'x2.5"x1.5"	0.156	Cu.ft.
		<u>3.460</u>	Cu.ft.
Wastage	20%	0.692	Cu.ft.
		<u>4.153</u>	Cu.ft.

1. Labour

Carpenter	5.25	Hrs @	125.00	656.25
Labourer	1.15	Hrs @	87.50	100.63
Total				<u>756.88</u>
Contractor's profit & overhead			20%	151.38
Total Labour rate				<u>305.40</u>

305

2. Material

Wood - deodar 1st class	4.15	Cu.ft. @	5000.00	20750.00
Sawing charges	4.15	Cu.ft. @	87.50	363.13
Iron screw 1.25	30	No. @	8.00	240.00
Iron screw 2.5"	30	No. @	10.00	300.00
Rawal plug 2.5" long	30	No. @	6.62	198.60
Cement sand mortar 1 : 3			0.5%	109.26
				<u>21960.98</u>
Contractor's profit & overhead			20%	4392.20
Total Composite rate				<u>9166.66</u>

9,167

Item No. 16-40

Providing and fixing G.I. wire gauze of 22 gauze (1.15 mm) and 144 mesh per sq.inch.

Sq.m. a) With First class deodar wood beading upto one square inch (6.45 sq.cm.) 2"x1/2" section of approved design with iron screws over existing frame as required.

Detail of cost for 24 Sq.ft.

Considering a window 6' x 4'	24	Sq.ft.
G.I. wire gauge = 6' x 4'	24.0	Sq.ft.
Wastage	5%	1.2
		<u>25.2</u>
Deodar wood:		
Beading	30.3 x 0.16 x 0.04	0.194
Wastage	15%	0.029
		<u>0.223</u>

1. Labour

Carpenter	2.00	Hrs @	125.00	250.00
Black smith	0.50	Hrs @	112.00	56.00
Total				<u>306.00</u>
Contractor's profit & overhead			20%	61.20
Total Labour rate				<u>164.63</u>

165

2. Material

Wood - deodar 1st class	0.22	Cu.ft. @	5000.00	1100.00
Sawing charges	0.22	Cu.ft. @	87.50	19.25
G.I. wire gauge	25.2	Sq.ft. @	130.00	3276.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Iron screw 1.5"	96	No. @	10.00	960.00	
				5355.25	
Contractor's profit & overhead			20%	1071.05	
Total Composite rate				3045.75	3,046

Sq.m. b) Without beading

Detail of cost for 24 Sq.ft.

1. Labour

Carpenter	0.60	Hrs @	125.00	75.00	
Black smith	0.15	Hrs @	112.00	16.80	
Total				91.80	

Contractor's profit & overhead			20%	18.36	
Total Labour rate				49.39	49

2. Material

G.I. wire gauge	25.2	Sq.ft. @	130.00	3276.00	
Iron screw 1.5"	96	No. @	10.00	960.00	
				4236.00	

Contractor's profit & overhead			20%	847.20	
Total Composite rate				2328.36	2,328

Item No. 16-41**Sq.m. Providing and fixing plastic wire gauze of and 22 mesh per sq.inch.****a) With First class deodar wood beading 2" x 1/2" over existing frame**

Detail of cost for 24 Sq.ft.

Considering a window 6' x 4' 24 Sq.ft.

1. Labour

Labour rate	Same as in item 16-40(a)			164.65	165
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2. Material

Wood - deodar 1st class	0.22	Cu.ft. @	5000.00	1115.04	
Sawing charges	0.22	Cu.ft. @	87.50	19.51	
Plastic wire gauze	25.2	Sq.ft. @	26.40	665.28	
Iron screw 1.5"	96	No. @	10.00	960.00	
				2759.83	

Contractor's profit & overhead			20%	551.97	
Total Composite rate				1649.44	1,649

Sq.m. b) Without beading

Detail of cost for 24 Sq.ft.

1. Labour

Labour rate	Same as in item 16-40(b)			49.40	49
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2. Material

Plastic wire gauze	25.2	Sq.ft. @	26.40	665.28	
Iron screw 1.5"	96	No. @	10.00	960.00	
				1625.28	

Contractor's profit & overhead			20%	325.06	
Total Composite rate				923.80	924

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-42

Sq.m. Providing and fixing Aluminium wire gauze 30 gauge (0.85 mm) and 14 mesh per sq.inch.

a) With First class deodar wood beading 2" x 1/2" over existing frame

Detail of cost for 24 Sq.ft.

Considering a window 6' x 4' 24 Sq.ft.

1. Labour

Labour rate Same as in item 16-40(a) 164.65

165

2. Material

Wood - deodar 1st class 0.22 Cu.ft. @ 5000.00 1115.04

Sawing charges 0.22 Cu.ft. @ 87.50 19.51

Aluminium wire gauze 25.2 Sq.ft. @ 20.00 504.00

Iron screw 1.5" 96 No. @ 10.00 960.00

2598.55

Contractor's profit & overhead 20% 519.71

Total Composite rate 1562.67

1,563

Sq.m. b) Without beading

Detail of cost for 24 Sq.ft.

1. Labour

Labour rate Same as in item 16-40(b) 49.40

49

2. Material

Aluminium wire gauze 25.2 Sq.ft. @ 20.00 504.00

Iron screw 1.5" 96 No. @ 10.00 960.00

1464.00

Contractor's profit & overhead 20% 292.80

Total Composite rate 837.03

837

Item No. 16-43-1

Sq.m. Providing and fixing expanded metal 3/4"x2.5" (19mm x 64mm), 12 gauge (2.12mm) of approved quality with First class deodar wood beading upto one sq.inch (2"x1/2") as required and 22 mesh per sq.inch.

Detail of cost for 24 Sq.ft.

Considering a window 6' x 4' 24 Sq.ft.

1. Labour

Labour rate Same as in item 16-40(a) 187.10

187

2. Material

Wood - deodar 1st class 0.22 Cu.ft. @ 5000.00 1115.04

Sawing charges 0.22 Cu.ft. @ 87.50 19.51

Expanded metal 25.2 Sq.ft. @ 58.55 1475.46

Iron screw 1.5" 96 No. @ 10.00 960.00

3570.02

Contractor's profit & overhead 20% 714.00

Total Composite rate 2107.77

2,108

Item No. 16-44-1

R.M. Providing and fixing with sunken iron screws over existing base of iron or wood First class shisham wood moulding as hand rails, studs, lathe etc. of approved design 4 to 6 sq.inch (26 to 39 sq.cm.) in cross section as required.

Detail of cost for 48 R.ft.

Shisham moulding = 2" x 3" x 48 ft long 2.00 Cu.ft.

Wastage 20% 1.00 Cu.ft.

3.00 Cu.ft.

1. Labour

Carpenter special 20.00 Hrs @ 125.00 2500.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Labourer	16.00 Hrs @	87.50	1400.00	
Total			3900.00	
Contractor's profit & overhead		20%	780.00	
Total Labour rate			319.90	320
2. Material				
Wood - Shisham	3.00 Cu.ft. @	2000	6000.00	
Sawing charges	3.00 Cu.ft. @	87.50	262.50	
Iron screw 3"	144 No. @	10.00	1440.00	
Glue	0.455 Kg. @	160.00	72.73	
			7775.23	
Contractor's profit & overhead		20%	1555.05	
Total Composite rate			957.66	958

Item No. 16-45-1

R.M. Providing and fixing with sunken iron screws over existing base of iron or wood First class deodar wood moulding as hand rails, studs, lathe etc. of approved design 4 to 6 sq.inch (26 to 39 sq.cm.) in cross section as required.

Detail of cost for 48 R.ft.

Deodar moulding = 2" x 3" x 48 ft long	2.00	Cu.ft.	
Wastage	20%	0.80	Cu.ft.
		2.80	Cu.ft.

1. Labour

Carpenter special	21.25	Hrs @	125.00	2656.25
Labourer	14.00	Hrs @	87.50	1225.00
Total				3881.25
Contractor's profit & overhead		20%		776.25
Total Labour rate				318.36

318

2. Material

Wood - deodar 1st class	2.80	Cu.ft. @	5000.00	14000.00
Sawing charges	2.80	Cu.ft. @	87.50	245.00
Iron screw 3"	144	No. @	10.00	1440.00
Glue	0.455	Kg. @	160.00	72.73
				15757.73
Contractor's profit & overhead		20%		3151.55
Total Composite rate				1610.89

1,611

Item No. 16-46-1

R.M. Providing and fixing with sunken iron screws and rawl plugs First class shisham wood moulded picture rails upto 6sq.inch (39 sq.cm.) in cross section on walls as required.

Detail of cost for 100 R.ft.

Shisham wood	100 x 4" x 1.5"	4.17	Cu.ft.
Wastage	20%	2.08	Cu.ft.
		6.25	Cu.ft.

1. Labour

Carpenter special	20.00	Hrs @	125.00	2500.00
Labourer	4.75	Hrs @	87.50	415.63
Total				2915.63
Contractor's profit & overhead		20%		583.13
Total Labour rate				114.79

115

2. Material

Wood - Shisham	6.25	Cu.ft. @	2000	12500.00
Sawing charges	6.25	Cu.ft. @	87.50	546.88
Iron screw 1.25	408	No. @	8.00	3264.00
Rawal plug 2.5" long	400	No. @	6.62	2648.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	18958.88	
Total Composite rate		3791.78	
		861.24	861

Item No. 16-47-1

R.M. Providing and fixing with sunken iron screws and rawl plugs First class deodar wood moulded picture rails upto 6sq.inch (39 sq.cm.) in cross section on walls.

Detail of cost for 100 R.ft.

Deodar wood	100 x 4" x 1.5"	4.17	Cu.ft.		
Wastage	20%	2.08	Cu.ft.		
		<u>6.25</u>	Cu.ft.		
1. Labour					
Carpenter special		28.00	Hrs @	125.00	3500.00
Labourer		7.00	Hrs @	87.50	612.50
Total					<u>4112.50</u>
Contractor's profit & overhead				20%	822.50
Total Labour rate					<u>161.92</u>
					162

2. Material

Wood - deodar 1st class		6.25	Cu.ft. @	5000.00	31250.00
Sawing charges		6.25	Cu.ft. @	87.50	546.88
Iron screw 2"		408	No. @	10.00	4080.00
Rawal plug 2.5" long		400	No. @	6.62	2648.00
					<u>38524.88</u>
Contractor's profit & overhead				20%	7704.98
Total Composite rate					<u>1678.72</u>
					1,679

Item No. 16-48-1

Sq.m. Providing and fixing with iron screws 3/4" (19 mm) thick First class deodar wood eave or barge board.

Detail of cost for 50 Sq.ft.

Area	100' x 6"	50.00	Sq.ft.		
Deodar wood	100 x 6" x 3/4"	3.125	Cu.ft.		
Wastage	40%	0.781	Cu.ft.		
		<u>3.906</u>	Cu.ft.		
1. Labour					
Carpenter		7.00	Hrs @	125.00	875.00
Labourer		7.00	Hrs @	87.50	612.50
Total					<u>1487.50</u>
Contractor's profit & overhead				20%	297.50
Total Labour rate					<u>384.13</u>
					384

2. Material

Wood - deodar 1st class		3.91	Cu.ft. @	5000.00	19550.00
Sawing charges		3.91	Cu.ft. @	87.50	341.80
Iron screw 1.25		48	No. @	8.00	384.00
					<u>20275.80</u>
Contractor's profit & overhead				20%	4055.16
Total Composite rate					<u>5620.15</u>
					5,620

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-49

Providing and fixing First class wood railing of approved design and sections in stair cases, balcony or parapet with same wood balusters of approved design and sections fixed into stringers, steps or walls having hand rail with turning, bend posts, newal posts fixed with flat iron and screws including cutting holes in stringers walls steps and making good as required but excluding cost of stringers, steps and flat iron.

R.M. a) Shisham wood

Detail of cost for 22 Sq.ft.

Considering a railing 8' long and 2'-9" high having a area of 8' x 2' - 9"

		22	Sq.ft.		
Hand rail	8'-0"x2.5x3"x1/144	0.417	Cu.ft.		
Baluster (posts)	17x2.75x1.25"x1.75"x1/144	0.710	Cu.ft.		
		<u>1.127</u>	Cu.ft.		
Wastage	20%	0.225	Cu.ft.		
		<u>1.352</u>	Cu.ft.		

1. Labour

Carpenter special	15.00	Hrs	@	125.00	1875.00
Labourer	5.00	Hrs	@	87.50	437.50
Total					<u>2312.50</u>
Contractor's profit & overhead				20%	462.50
Total Labour rate					<u>1357.23</u>

1,357**2. Material**

Wood - Shisham	1.35	Cu.ft.	@	2000	2700.00
Sawing charges	1.35	Cu.ft.	@	87.50	118.32
Iron screw 3"	18	No.	@	10.00	180.00
Glue	0.227	Kg.	@	160.00	36.36
					<u>3034.68</u>
Contractor's profit & overhead				20%	606.94
Total Composite rate					<u>3138.31</u>

3,138**Sq.m. b) Deodar wood**

Detail of cost for 22 Sq.ft.

Considering a railing 8' long and 2'-9" high having a area of 8' x 2' - 9"

		22	Sq.ft.		
Deodar wood		1.127	Cu.ft.		
Wastage	20%	0.225	Cu.ft.		
		<u>1.352</u>	Cu.ft.		

1. Labour

Carpenter special	14.00	Hrs	@	125.00	1750.00
Labourer	3.50	Hrs	@	87.50	306.25
Total					<u>2056.25</u>
Contractor's profit & overhead				20%	411.25
Total Labour rate					<u>1206.83</u>

1,207**2. Material**

Wood - deodar 1st class	1.352	Cu.ft.	@	5000.00	6760.00
Sawing charges	1.352	Cu.ft.	@	87.50	118.30
Iron screw 3"	18	No.	@	10.00	180.00
Glue	0.227	Kg.	@	160.00	36.36
					<u>7094.66</u>
Contractor's profit & overhead				20%	1418.93
Total Composite rate					<u>5370.75</u>

5,371

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-50

Providing and fixing First class wood in stairs with or without stringers and landing joists including cost of moulded nosing and stringers, cutting grooves for fixing steps planks with screws, bolts etc. but excluding cost of balustrade.

Sq.m. a) Shisham wood

Considering a stair 3 ft. wide stair case

Shisham wood

Stringers	2x8.5x1.17x3/12	4.973	Cu.ft.
Landing	1x10'x1.17x3/12	2.925	Cu.ft.
Landing Planks	2x3'x3'x1.50"	2.250	Cu.ft.
Treads	20x3'-1"x1'-1"x1.50"	8.316	Cu.ft.
Risers	20x3'-1"x8"x1/12	3.422	Cu.ft.
Wedges	2x20x8"x1.5"x2"	0.556	Cu.ft.
	2x20x1'-2"x1.5"x2"	0.975	Cu.ft.
		<u>23.416</u>	Cu.ft.
Wastage	20%	4.683	Cu.ft.
		<u>28.100</u>	Cu.ft.

1. Labour

Carpenter	54.00	Hrs	@	125.00	6750.00
Labourer	32.00	Hrs	@	87.50	2800.00
Mason	6.00	Hrs	@	125.00	750.00
Total					<u>10300.00</u>
Contractor's profit & overhead				20%	2060.00
Total Labour rate					<u>1705.05</u>

1,705

2. Material

Wood - Shisham	28.10	Cu.ft.	@	2000.00	56199.07
Sawing charges	28.10	Cu.ft.	@	87.50	2458.71
Iron bolt 0.5" dia	4	No.	@	81.25	325.00
M.S. plate	3.00	Kg	@	85.00	255.00
Iron screw 2"	390	No.	@	10.00	3900.00
Iron screw 3"	150	No.	@	10.00	1500.00
Rawal plug 2.5" long	150	No.	@	6.62	993.00
Glue	1.82	Kg.	@	160.00	290.91
Cement sand mortar 1 : 3				5%	3296.08
					<u>69217.77</u>
Contractor's profit & overhead				20%	13843.55
Total Composite rate					<u>13163.25</u>

13,163**Sq.m. b) Deodar wood**

Deodar wood	23.416	Cu.ft.
Wastage	4.683	Cu.ft.
	<u>28.100</u>	Cu.ft.

1. Labour

Carpenter	48.00	Hrs	@	125.00	6000.00
Labourer	24.00	Hrs	@	87.50	2100.00
Mason	8.00	Hrs	@	125.00	1000.00
Total					<u>9100.00</u>
Contractor's profit & overhead				20%	1820.00
Total Labour rate					<u>1506.40</u>

1,506

2. Material

Wood - deodar 1st class	28.10	Cu.ft.	@	5000.00	140497.67
Sawing charges	28.10	Cu.ft.	@	87.50	2458.71
Iron bolt 0.5" dia	4	No.	@	81.25	325.00
M.S. plate	3	Kg	@	85.00	255.00
Iron screw 2"	390	No.	@	10.00	3900.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Iron screw 3"	150	No. @ 10.00	1500.00
	Rawal plug 2.5" long	150	No. @ 6.62	993.00
	Glue	1.82	Kg. @ 160.00	290.91
	Cement sand mortar 1 : 3		5%	7511.01
				157731.30
	Contractor's profit & overhead		20%	31546.26
	Total Composite rate			27617.00
				27,617

Item No. 16-51-1

Sq.m. Providing and fixing 1" (25mm) thick fine cork sheet with approved adhesive to shutters and frame for sound proofing and/or for airconditioning shutters including levelling, finishing.

Detail of cost for 21 Sq.ft.

Considering a door 3' x 7' with 2.5" thick frame and 1.4" thick shutter.

Area of door	3' x 7'	21.00	Sq.ft.
Cork sheet 1" thick inner surface	3' x 7'	21.00	Sq.ft.
Rebate and sides of shutter = 2 x 16.17 x 1.5"		4.043	Sq.ft.
		<u>25.043</u>	Sq.ft.
Wastage	10%	2.504	Sq.ft.
		<u>27.547</u>	Sq.ft.

1. Labour

Carpenter	6.00	Hrs @ 125.00	750.00
Contractor's profit & overhead		20%	150.00
Total Labour rate			<u>461.14</u>

461

2. Material

Cork sheet 25 mm thick	27.55	Sq.ft. @ 139.41	3840.61
Glue	1.14	Kg. @ 160.00	181.82
			<u>4022.43</u>
Contractor's profit & overhead		20%	804.49
Total Composite rate			<u>2934.36</u>

2,934

Item No. 16-52-1

Sq.m. Providing and fixing 3/4" (19mm) thick foam rubber sheet with approved adhesive and edge metalling screwed to shutters and frame for sound proofing and/or for airconditioning shutters including levelling, finishing, polishing metal portion.

Detail of cost for 24.5 Sq.ft.

Considering a double leaf door 3.5' x 7'	24.50	Sq.ft.
Foam rubber sheet 3/4" thick 3.5' x 7'	24.50	Sq.ft.
Wastage	5%	1.23
		<u>25.73</u>

Aluminium strip channel 5/8" x 1/8" (32 SWG) at meeting & hanging style = 3' x 6'-10"

At head	1 x 3'-2"	20.50	R.ft.
		3.17	R.ft.
		<u>23.67</u>	R.ft.
Wastage	5%	1.18	R.ft.
		<u>24.85</u>	R.ft.

Aluminium strip channel 7/8"x1/16" (32 SWG) at meeting at bottom rail = 2 x 1.58

Wastage	5%	3.16	R.ft.
		0.16	R.ft.
		<u>3.32</u>	R.ft.

Foam rubber 1/16" thick at hanging and meeting styles and at head

Area =	23.67 x 1.5 x 1/12	23.67	R.ft.
		2.96	Sq.ft.
Wastage	5%	1.18	Sq.ft.
		<u>4.14</u>	Sq.ft.

1. Labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Carpenter	16.00	Hrs @ 125.00	2000.00
	Labourer	4.80	Hrs @ 87.50	420.00
	Polisher	2.00	Hrs @ 110.00	220.00
	Total			2640.00
	Contractor's profit & overhead		20%	528.00
	Total Labour rate			1391.33
				1,391

2. Material

	Foam rubber sheet 3/4" thick	25.73	Sq.ft @ 75.00	1929.38
	Aluminium strip 5/8" x 1/8"	24.85	R.M. @ 25.91	643.85
	Aluminium strip 7/8" x 1/16"	3.32	R.M. @ 18.29	60.68
	Foam rubber 1/16" thick	4.14	Sq.ft @ 16.00	66.28
	Stiff rubber	3.50	R.ft. @ 27.50	96.25
	Foam rubber adhesive	1.14	Kg. @ 160.00	181.82
	Aluminium screw 1 1/2" size	100.00	No. @ 45.00	4500.00
	Polishing		5%	373.91
				7852.15
	Contractor's profit & overhead		20%	1570.43
	Total Composite rate			5529.58
				5,530

Item No. 16-53-1

Sq.m. Providing and fixing 1/2" (13mm) thick 'Namda' with approved adhesive and edge metalling screwed to shutters and frame for sound proofing and/or for airconditioning shutters including levelling, finishing, polishing metal portion.

Detail of cost for 24.5 Sq.ft.

	Considering a double leaf door 3.5' x 7'	24.50	Sq.ft.	
	1. Labour			
	Carpenter	14.00	Hrs @ 125.00	1750.00
	Labourer	4.80	Hrs @ 87.50	420.00
	Polisher	2.00	Hrs @ 110.00	220.00
	Total			2390.00
	Contractor's profit & overhead		20%	478.00
	Total Labour rate			1259.58
				1,260
	2. Material			
	Namda 1/2" thick	25.73	Sq.ft @ 17.19	442.30
	Aluminium strip 5/8" x 1/8"	24.85	R.ft. @ 25.91	643.85
	Aluminium strip 7/8" x 1/16"	3.32	R.ft. @ 18.29	60.68
	Namda 1/16" thick	4.14	Sq.ft @ 4.18	17.32
	Stiff rubber	3.50	R.ft. @ 27.50	96.25
	Foam rubber adhesive	1.14	Kg. @ 160.00	181.82
	Aluminium screw 1 1/2" size	100.00	No. @ 45.00	4500.00
	Polishing		5%	297.11
				6239.32
	Contractor's profit & overhead		20%	1247.86
	Total Composite rate			4547.83
				4,548

Item No. 16-54-1

R.M. Providing and fixing First class deodar wood projected beading upto one sq.inch.(6.5 sq.cm.) wide in section, designed, fixed around the panels of doors, windows of any description.

Detail of cost for 100 Sq.ft.

	Deodar wood	100 x 3/48 x 3/48	0.391	Cu.ft.	
	Wastage	20%	0.078	Cu.ft.	
			0.469	Cu.ft.	
	1. Labour				
	Carpenter	12.00	Hrs @ 125.00	1500.00	
	Labourer	4.00	Hrs @ 87.50	350.00	
	Total			1850.00	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	370.00	
	Total Labour rate		72.84	73
2. Material				
	Wood - deodar 1st class	0.47	Cu.ft. @ 5000.00	2343.75
	Sawing charges	0.47	Cu.ft. @ 87.50	41.02
	Nail of all sizes	0.23	Kg. @ 90.00	20.45
	Glue	0.34	Kg. @ 160.00	54.55
				2459.77
	Contractor's profit & overhead	20%	491.95	
	Total Composite rate		169.68	170

Item No. 16-55-1

Sq.m. Providing and fixing 1/2" (13mm) thick First class deodar wood simple moulded or plain pelmet fixed with iron frame 3/4"x3/4"x1/4" with screws including cost of painting three coats on iron work only with approved anti-corrosive paints.

Detail of cost for 6.5 Sq.ft.

Considering a pelmet 6' long 6" wide projected and covered on top

Area	2 x 6'-0" x 6"	6.00	Sq.ft.
	2 x 0'-6" x 6"	0.50	Sq.ft.
		6.50	Sq.ft.
Deodar wood	1x6'-0"x0.5x1/24	0.125	Cu.ft.
	2x0.5x0.5x1/24	0.021	Cu.ft.
	1x6'-0"x0.5x1/24	0.125	Cu.ft.
		0.271	Cu.ft.
Wastage	20%	0.054	Cu.ft.
		0.325	Cu.ft.
Angle iron 3/4"x3/4"x1/4"			
	= 2 x 1.17x1.12 lb. per foot.	1.19	kg.

1. Labour

Carpenter	4.00	Hrs @	125.00	500.00
Black smith	1.50	Hrs @	112.00	168.00
Labourer	1.00	Hrs @	87.50	87.50
Total				755.50
Contractor's profit & overhead	20%			151.10
Total Labour rate				1500.77

1,501

2. Material

Wood - deodar 1st class	0.33	Cu.ft. @	5000.00	1625.00
Sawing charges	0.33	Cu.ft. @	87.50	28.44
Angle iron	1.19	Kg. @	74.00	88.15
Iron screw 1"	12	No. @	8.00	96.00
Anti corrosive paint			1%	18.38
				1855.97
Contractor's profit & overhead	20%			371.19
Total Composite rate				5187.58

5,188

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-56-1

Providing and fixing 1/2" (13mm) thick First class deodar wood simple moulded or plain pelmet fixed with same wood brackets, screws, rawl plugs etc.

Detail of cost for 6.5 Sq.ft.

Considering a pelmet 6' long 6" wide projected and covered on top

Deodar wood		0.271	Cu.ft.		
Middle brackets	2x3"x1/2"x6"x1/1728	0.010	Cu.ft.		
Corners 2 Nos.		0.010	Cu.ft.		
		<u>0.292</u>	Cu.ft.		
Wastage	20%	0.058	Cu.ft.		
		<u>0.350</u>	Cu.ft.		
1. Labour					
Carpenter		4.00	Hrs @	125.00	500.00
Labourer		2.00	Hrs @	87.50	175.00
Total					<u>675.00</u>
Contractor's profit & overhead				20%	135.00
Total Labour rate					<u>1340.86</u>
					1,341
2. Material					
Wood - deodar 1st class		0.35	Cu.ft. @	5000.00	1750.00
Sawing charges		0.35	Cu.ft. @	87.50	30.63
Iron screw 3"		4	No. @	10.00	40.00
Rawal plug 2.5" long		4	No. @	6.62	26.48
					<u>1847.11</u>
Contractor's profit & overhead				20%	369.42
Total Composite rate					<u>5010.06</u>
					5,010

Item No. 16-57-1

Sq.m. Providing and fixing 1.25" (32mm) thick deodar wood First class wooden brackets for holding curtain rods moulded to details, fixed to wall or wood with screws, rawl plugs etc.

Detail of cost for 0.42 Sq.ft.

Considering a bracket having all the planks 12" long 2.5" wide and 1.25" thick.

Area	2x1.0x2.5"	0.42	Sq.ft.		
Deodar wood					
Base plan	1x12"x2.5"x1.25"x1/1728	0.022	Cu.ft.		
Stay	1x12"x2.5"x1.25"x1/1728	0.022	Cu.ft.		
		<u>0.043</u>	Cu.ft.		
Wastage	20%	0.009	Cu.ft.		
		<u>0.052</u>	Cu.ft.		
1. Labour					
Carpenter		0.65	Hrs @	125.00	81.25
Labourer		0.65	Hrs @	87.50	56.88
Total					<u>138.13</u>
Contractor's profit & overhead				20%	27.63
Total Labour rate					<u>4246.36</u>
					4,246
2. Material					
Wood - deodar 1st class		0.052	Cu.ft. @	5000.00	260.42
Sawing charges		0.052	Cu.ft. @	87.50	4.56
Iron screw 3"		4	No. @	10.00	40.00
Rawal plug 2.5" long		4	No. @	6.62	26.48
					<u>331.45</u>
Contractor's profit & overhead				20%	66.29
Total Composite rate					<u>14436.20</u>
					14,436

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-58

Providing and fixing 3/4" (19mm) thick First class wood peg boards with levelled edges pegs of approved design fixed at 10" (250mm) centre to centre with screws and rawl pegs.

Sq.m. a) Shisham wood with brass pegs

Detail of cost for 4.5 Sq.ft.

Considering 6 peg boards 3 ft. long comprising 4 pegs each

Area	6x3x1/4	4.50	Sq.ft.
Shisham wood	6x3x3"x3/4"x1/144	0.281	Cu.ft.
Wastage	20%	0.056	Cu.ft.
		<u>0.338</u>	Cu.ft.

1. Labour

Carpenter	3.00	Hrs @	125.00	375.00
Labourer	2.00	Hrs @	87.50	175.00
Total				<u>550.00</u>
Contractor's profit & overhead			20%	110.00
Total Labour rate				<u>1578.13</u>

1,578

2. Material

Wood - Shisham	0.338	Cu.ft. @	2000.00	675.00
Sawing charges	0.338	Cu.ft. @	87.50	29.53
Total wood items				<u>704.53</u>
Brass peg 6 x 4	24	No. @	85.00	2040.00
Iron screw 2"	30	No. @	10.00	300.00
Rawal plug 1" long	30	No. @	4.31	129.30
Total hardware items				<u>2469.30</u>
Total				3173.83
Contractor's profit & overhead			20%	634.77
Total Composite rate				<u>10684.91</u>

10,685**Sq.m. b) Shisham wood with iron pegs**

1. Labour

Total Labour rate	Same as in item 16-58(a)			1578.15
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1,578

2. Material

Total wood items	Same as in item 16-58(a)			704.53
Iron peg	24	No. @	37.50	900.00
Iron screw 2"	30	No. @	10.00	300.00
Rawal plug 1" long	30	No. @	4.31	129.30
Total hardware items				<u>1329.30</u>
Total				2033.83
Contractor's profit & overhead			20%	406.77
Total Composite rate				<u>7413.89</u>

7,414**Sq.m. c) Deodar wood with brass pegs**

Deodar wood		0.281	Cu.ft.
Wastage	40%	0.113	Cu.ft.
		<u>0.394</u>	Cu.ft.

1. Labour

Carpenter	2.00	Hrs @	125.00	250.00
Labourer	2.00	Hrs @	87.50	175.00
Total				<u>425.00</u>
Contractor's profit & overhead			20%	85.00
Total Labour rate				<u>1219.47</u>

1,219

2. Material

Wood - deodar 1st class	0.394	Cu.ft. @	5000.00	1968.75
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Sawing charges	0.394	Cu.ft. @ 87.50	34.45
	Total wood items			2003.20
	Total hardware items, same as in item 16-58(a)			2469.30
	Total			4472.50
	Contractor's profit & overhead		20%	894.50
	Total Composite rate			14052.57
				14,053

Sq.m. d) Deodar wood with iron pegs

1. Labour					
Total Labour rate	Same as in item 16-58(c)			1219.45	1,219
2. Material					
Total wood items	Same as in item 16-58(c)			2003.20	
Total hardware items, same as in item 16-58(b)				1329.30	
Total				3332.50	
Contractor's profit & overhead			20%	666.50	
Total Composite rate				10781.51	10,782

Item No. 16-59-1**R.M. Providing and fixing deodar wood First class wooden curtain rods 1" to 1.25" (25mm to 32mm) dia with end stay.**

Detail of cost for 28 R.ft.

Considering 8 curtain rods 1.25" dia with end stay 3.5' long each

Length	8 x 3.5'	28.00	R.ft.	
Deodar wood	1/4x8x3.14x3.5x5/48x5/48	0.238	Cu.ft.	
For end stay	8x2x5/24x3/12x3/24	0.104	Cu.ft.	
		0.343	Cu.ft.	
Wastage	20%	0.069	Cu.ft.	
		0.411	Cu.ft.	

1. Labour

Carpenter	3.00	Hrs @ 125.00	375.00
Labourer	1.50	Hrs @ 87.50	131.25
Total			506.25
Contractor's profit & overhead		20%	101.25
Total Labour rate			71.19
			71

2. Material

Wood - deodar 1st class	0.411	Cu.ft. @ 5000.00	2055.99
Sawing charges	0.411	Cu.ft. @ 87.50	35.98
			2091.97
Contractor's profit & overhead		20%	418.39
Total Composite rate			365.35
			365

Item No. 16-60**Providing and fixing 3/4" (19mm) dia. approved tubes with sockets as curtain rods.****R.M. a) Brass tube with brass socket**

Detail of cost for 28 R.ft.

Considering 8 curtain rods 3/4" dia. 3.5' long each

Length	8 x 3.5'	28.00	R.ft.	
Wastage	5%	1.40	R.ft.	
		29.40	R.ft.	

1. Labour

Carpenter	3.00	Hrs @ 125.00	375.00
Labourer	1.50	Hrs @ 87.50	131.25
Total			506.25
Contractor's profit & overhead		20%	101.25
Total Labour rate			71.19
			71

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Material

Brass tube 3/4" dia	29.40	R.ft	@	200.00	5880.00	
Brass socket 3/4" dia	16.00	No.	@	80.00	1280.00	
Brass screw 1/2" size	36.00	No.	@	3.60	129.60	
					<u>7289.60</u>	
Contractor's profit & overhead				20%	1457.92	
Total Composite rate					<u>1096.21</u>	1,096

R.M. b) Chromium plated tube with C.P. socket

Quantity same as in item 16-60 (a)

1. Labour

Total Labour rate	Same as in item 16-60 (a)				71.20	71
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2. Material

C.P. brass tube 3/4" dia.	29.40	R.ft	@	75.00	2205.00	
C.P. brass socket 3/4" dia.	16	No.	@	95.00	1520.00	
C.P. brass screw (1.5")	36	No.	@	55.00	1980.00	
					<u>5705.00</u>	
Contractor's profit & overhead				20%	1141.00	
Total Composite rate					<u>873.40</u>	873

Item No. 16-61

Providing and fixing curtain rails with double roller runners, clamps, including cost of C.P. brass screws and rawl plugs.

R.M. a) C.P. brass curtain rails

Detail of cost for 28 R.ft.

Considering 8 curtain rails 1.25" dia. 3.5' long each

Length	8 x 3.5'	28.00	R.ft.	
Wastage	5%	1.40	R.ft.	
		<u>29.40</u>	R.ft.	

1. Labour

Carpenter	8.00	Hrs	@	125.00	1000.00	
Labourer	4.00	Hrs	@	87.50	350.00	
Total					<u>1350.00</u>	
Contractor's profit & overhead				20%	270.00	
Total Labour rate					<u>189.83</u>	190

2. Material

C.P. brass curtain rail	29.40	R.ft.	@	155.00	4557.00	
					<u>4557.00</u>	
Brass rollers	90	No.	@	24.00	2160.00	
C.P. brass clamp	40	No.	@	200.00	8000.00	
C.P. brass screw (1.5")	36	No.	@	55.00	1980.00	
Rawal plug 1" long	30	No.	@	4.31	129.30	
Brass stopper	18	No.	@	250.00	4500.00	
Other hardware					<u>16769.30</u>	
Total					21326.30	
Contractor's profit & overhead				20%	3353.86	
Total Composite rate					<u>3081.82</u>	3,082

R.M. b) Aluminium curtain rails

1. Labour

Total Labour rate	Same as in item 16-61 (a)				189.85	190
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2. Material

Aluminium curtain rail	29.40	R.ft.	@	45.00	1323.00	
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Other hardwares	Same as in item 16-61(a)	16769.30
	Total		18092.30
	Contractor's profit & overhead	20%	3618.46
	Total Composite rate		2733.89
			2,734

Item No. 16-62

Providing and fixing approved rings for curtain.

a) Brass rings**Each i) 1.25" (32 mm) dia.**

1. Labour

Labourer

0.015 Hrs @ 87.50 1.31

Contractor's profit & overhead

20% 0.26

Total Labour rate

1.58

2

2. Material

Brass ring 1.25" dia

1 No. @ 12.00 12.00

Contractor's profit & overhead

20% 2.40

Total Composite rate

15.98

16**Each ii) 1" (25 mm) dia.**

1. Labour

Total Labour rate

Same as in item 16-62(a)

1.60

2

2. Material

Brass ring 1" dia

1 No. @ 9.60 9.60

Contractor's profit & overhead

20% 1.92

Total Composite rate

13.12

13**b) Chromium plated rings****Each i) 1.25" (32 mm) dia.**

1. Labour

Total Labour rate

Same as in item 16-62(a)

1.60

2

2. Material

C.P. ring 1.25" dia

1.00 No. @ 37.50 37.50

Contractor's profit & overhead

20% 7.50

Total Composite rate

46.60

47**Each ii) 1" (25 mm) dia.**

1. Labour

Total Labour rate

Same as in item 16-62(a)

1.60

2

2. Material

C.P. ring 1" dia

1 No. @ 25.00 25.00

Contractor's profit & overhead

20% 5.00

Total Composite rate

31.60

32**c) Plastic rings****Each i) 1.25" (32 mm) dia.**

1. Labour

Total Labour rate

Same as in item 16-62(a)

1.60

2

2. Material

Plastic ring 1.25" dia.

1 No. @ 7.78 7.78

Contractor's profit & overhead

20% 1.56

Total Composite rate

10.93

11

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Each ii) 1" (25 mm) dia.

1. Labour						
Total Labour rate	Same as in item 16-62(a)			1.60		2
2. Material						
Plastic ring 1" dia.	1 No. @	6.62		6.62		
Contractor's profit & overhead			20%	1.32		
Total Composite rate				9.54		10

Item No. 16-63

Providing and fixing approved quality heavy duty window stay (casement) with 1.25" (32mm) screw.

Each a) Brass 9" (225 mm) long window stay fixed with brass screw.

1. Labour						
Carpenter	0.40 Hrs @	125.00		50.00		
Labourer	0.25 Hrs @	87.50		21.88		
Total				71.88		
Contractor's profit & overhead			20%	14.38		
Total Labour rate				86.25		86
2. Material						
Window stay brass 9"	1 No. @	86.00		86.00		
Brass screw 1.25" size	5 No. @	6.00		30.00		
Total				116.00		
Contractor's profit & overhead			20%	23.20		
Total Composite rate				225.45		225

Each b) Iron 9" (225 mm) long window stay fixed with brass screw.

1. Labour						
Total Labour rate	Same as in item 16-63 (a)			86.25		86
2. Material						
Window stay iron 9"	1 No. @	22.00		22.00		
Iron screw 1.25"	5 No. @	8.00		40.00		
Total				62.00		
Contractor's profit & overhead			20%	12.40		
Total Composite rate				160.65		161

Item No. 16-64-1**Each Providing and fixing approved 10" (250mm) brass heavy duty quadrant stay with 1.25" (32mm) screw.**

1. Labour						
Total Labour rate	Same as in item 16-63 (a)			86.25		86
2. Material						
Brass quadrant stay	1 No. @	110.00		110.00		
Brass screw 1.25" size	5 No. @	6.00		30.00		
Total				140.00		
Contractor's profit & overhead			20%	28.00		
Total Composite rate				254.25		254

Item No. 16-65

Providing and fixing approved heavy brass adjustable door holder with 3" (75mm) brass screws or with specially supplied screws.

Each a) Foot operated bronze 8.5" (216 mm) size.

1. Labour

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Mason	1.00	Hrs	@ 125.00	125.00	
	Carpenter special	1.00	Hrs	@ 125.00	125.00	
	Labourer	0.50	Hrs	@ 87.50	43.75	
	Total				293.75	
	Contractor's profit & overhead			20%	58.75	
	Total Labour rate				352.50	353
	2. Material					
	Door holder shovel (5510)	1	No.	@ 500.00	500.00	
	Brass screw 3"	12	No.	@ 6.00	72.00	
	Rawal plug 3" long	15	No.	@ 8.93	133.95	
	Cement sand mortar 1 : 5	1.00	Cu.ft.	@ 116.24	116.24	
					822.19	
	Contractor's profit & overhead			20%	164.44	
	Total Composite rate				1339.12	1,339
	Each b) Bronze, spring action type 2"x1.5" (50mmx38mm) lock plate and 2.25"x7/8" (57mmx22mm) spring.					
	1. Labour					
	Total Labour rate			Same as in item 16-65(a)	352.50	353
	2. Material					
	Door holder shovel (5511)	1	No.	@ 550.00	550.00	
	Brass screw 3"	12	No.	@ 6.00	72.00	
	Rawal plug 3" long	15	No.	@ 8.93	133.95	
	Cement sand mortar 1 : 5	1.00	Cu.ft.	@ 116.24	116.24	
					872.19	
	Contractor's profit & overhead			20%	174.44	
	Total Composite rate				1399.12	1,399
	Each c) Bronze, door holder with rubber stop 7"x1.88" (175mmx41mm) plate and rubber stops 1.5" (38mm) dia.					
	1. Labour					
	Total Labour rate			Same as in item 16-65(a)	352.50	353
	2. Material					
	Door holder shovel (5505/5506)	1	No.	@ 500.00	500.00	
	Brass screw 3"	12	No.	@ 6.00	72.00	
	Rawal plug 3" long	15	No.	@ 8.93	133.95	
	Cement sand mortar 1 : 5	1.00	Cu.ft.	@ 116.24	116.24	
					822.19	
	Contractor's profit & overhead			20%	164.44	
	Total Composite rate				1339.12	1,339
	Item No. 16-66					
	Providing and fixing locks with brass or specially supplied screws including Door Closers and Floor Hinges of approved design including cutting wood to required shape and size with two operating keys.					
	Each a) Union lock (Local)					
	1. Labour					
	Carpenter special	2.00	Hrs	@ 125.00	250.00	
	Total				250.00	
	Contractor's profit & overhead			20%	50.00	
	Total Labour rate				300.00	300
	2. Material					
	Lock union	1	No.	@ 375.00	375.00	
	Screws			3%	11.25	
					386.25	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	77.25	
	Total Composite rate		<u>763.50</u>	764
Each b) Chinese lock				
	1. Labour			
	Total Labour rate	Same as in item 16-66(a)	300.00	300
	2. Material			
	Lock Chinese make	1 No. @	1200.00	1200.00
	Screws		3%	<u>36.00</u>
				1236.00
	Contractor's profit & overhead	20%	247.20	
	Total Composite rate		<u>1783.20</u>	1,783
Each c) Yale lock				
	1. Labour			
	Total Labour rate	Same as in item 16-66(a)	300.00	300
	2. Material			
	Lock yale	1 No. @	6500.00	6500.00
	Screws		3%	<u>195.00</u>
				6695.00
	Contractor's profit & overhead	20%	1339.00	
	Total Composite rate		<u>8334.00</u>	8,334
Each d) Hyundi lock				
	1. Labour			
	Total Labour rate	Same as in item 16-66(a)	300.00	300
	2. Material			
	Lock Hyundi	1 No. @	1500.00	1500.00
	Screws		3%	<u>45.00</u>
				1545.00
	Contractor's profit & overhead	20%	309.00	
	Total Composite rate		<u>2154.00</u>	2,154
Each e) Main door lock kwikset make				
	1. Labour			
	Total Labour rate	Same as in item 16-66(a)	300.00	300
	2. Material			
	Lock main door kwikset with handle	1 No. @	5500	5500.00
	Screws		3%	<u>165.00</u>
				5665.00
	Contractor's profit & overhead	20%	1133.00	
	Total Composite rate		<u>7098.00</u>	7,098
Each f) Hydraulic door closer, New star make				
	1. Labour			
	Total Labour rate	Same as in item 16-66(a)	300.00	300
	2. Material			
	Hydraulic door closer New star	1 No. @	1600.00	1600.00
	Screws		3%	<u>48.00</u>
				1648.00
	Contractor's profit & overhead	20%	329.60	
	Total Composite rate		<u>2277.60</u>	2,278

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Each g) Hydraulic door closer, HNH make

1. Labour					
Total Labour rate	Same as in item 16-66(a)		300.00		300
2. Material					
Hydraulic door closer HNH make	1 No. @	1450.00	1450.00		
Screws		3%	43.50		
			1493.50		
Contractor's profit & overhead		20%	298.70		
Total Composite rate			2092.20		2,092

Each h) Floor Hinges

1. Labour					
Carpenter special	4.00 Hrs @	125.00	500.00		500
2. Material					
Dorma Set of Floor Hinges	1 No. @	9500.00	9500.00		
Screws		3%	285.00		
			9785.00		
Contractor's profit & overhead		20%	1957.00		
Total Composite rate			12242.00		12,242

Item No. 16-67-1**Each Providing and fixing approved brass drawer and cup board lock with brass screws including two operating keys.**

1. Labour					
Carpenter special	1.00 Hrs @	125.00	125.00		
Total			125.00		
Contractor's profit & overhead		20%	25.00		
Total Labour rate			150.00		150
2. Material					
Lock drawer alpha make	1 No. @	110.00	110.00		
Screws		3%	3.30		
			113.30		
Contractor's profit & overhead		20%	22.66		
Total Composite rate			285.96		286

Item No. 16-68**Providing and fixing approved standard finger plate with screws.****Each a) Aluminium finger plate 6" x 2.25" (150 mm x 57 mm)**

1. Labour					
Carpenter	0.75 Hrs @	125.00	93.75		
Total			93.75		
Contractor's profit & overhead		20%	18.75		
Total Labour rate			112.50		113
2. Material					
Aluminium finger plate	1 No. @	155.00	155.00		
Aluminium screw 3/4" size	6 No. @	35.00	210.00		
			365.00		
Contractor's profit & overhead		20%	73.00		
Total Composite rate			550.50		551

Each b) Brass finger plate 6" x 2.25" (150 mm x 57 mm)

1. Labour

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Total Labour rate	Same as in item 16-68(a)	112.50	113
2. Material			
Brass finger plate	1 No. @	300.00	300.00
Brass screw 3/4" size	6 No. @	3.60	21.60
		<u>321.60</u>	
Contractor's profit & overhead	20%	64.32	
Total Composite rate		<u>498.42</u>	498

Item No. 16-69

Providing and fixing approved helical brass spring hinges 6" (150mm) size with brass screws.

Each a) Single action

1. Labour			
Carpenter	0.65 Hrs @	125.00	81.25
Total			<u>81.25</u>
Contractor's profit & overhead	20%		16.25
Total Labour rate			<u>97.50</u>
2. Material			
Brass helical spring 4" - single action	1 No. @	430.00	430.00
Brass screw 1.25" size	9 No. @	6.00	54.00
			<u>484.00</u>
Contractor's profit & overhead	20%		96.80
Total Composite rate			<u>678.30</u>

Each b) Double action

1. Labour			
Carpenter	0.80 Hrs @	125.00	100.00
Total			<u>100.00</u>
Contractor's profit & overhead	20%		20.00
Total Labour rate			<u>120.00</u>
2. Material			
Brass helical spring 6" - double action	1 No. @	625.00	625.00
Brass screw 1.25" size	9 No. @	6.00	54.00
			<u>679.00</u>
Contractor's profit & overhead	20%		135.80
Total Composite rate			<u>934.80</u>

Item No. 16-70

Providing and fixing approved helical iron spring hinges 6" (150mm) size with iron screws.

Each a) Single action

1. Labour			
Total Labour rate	Same as in item 16-69(a)	97.50	98
2. Material			
Iron spring hinges 6" - single action	1 No. @	195.00	195.00
Iron screw 1.25	9 No. @	8.00	72.00
			<u>267.00</u>
Contractor's profit & overhead	20%		53.40
Total Composite rate			<u>417.90</u>

Each b) Double action

1. Labour

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Total Labour rate	Same as in item 16-69(b)	120.00	120
2. Material			
Iron spring hinges 6" - double action	1 No. @	245.00	245.00
Iron screw 1.25	9 No. @	8.00	72.00
		<u>317.00</u>	
Contractor's profit & overhead	20%	63.40	
Total Composite rate		<u>500.40</u>	500

Item No. 16-71

Providing and fixing approved piano hinges of sheet 3/4" (19mm) wide with brass screws.

R.M. a) Brass piano hinges

Detail of cost for 5 R.ft.

1. Labour

Carpenter	2.00	Hrs @	125.00	250.00
Total				<u>250.00</u>
Contractor's profit & overhead		20%		50.00
Total Labour rate				<u>196.86</u>

2. Material

Brass piano hinge	5	R.ft. @	35.00	175.00
Brass screw 3/4" size	72	No. @	3.60	259.20
				<u>434.20</u>
Contractor's profit & overhead		20%		86.84
Total Composite rate				<u>538.77</u>

R.M. b) Iron piano hinges

Detail of cost for 5 R.ft.

1. Labour

Carpenter	2.00	Hrs @	125.00	250.00
Total				<u>250.00</u>
Contractor's profit & overhead		20%		50.00
Total Labour rate				<u>196.86</u>

2. Material

Iron piano hinge	5	R.ft. @	123.03	615.15
Iron screw 3/4"	72	No. @	7.00	504.00
				<u>1119.15</u>
Contractor's profit & overhead		20%		223.83
Total Composite rate				<u>1078.12</u>

Item No. 16-72

Providing and fixing approved parliament hinges with screws.

Each a) Brass parliament hinges 5" x 5" (125mm x 125mm) size, 12gauge

1. Labour

Carpenter	0.60	Hrs @	125.00	75.00
Total				<u>75.00</u>
Contractor's profit & overhead		20%		15.00
Total Labour rate				<u>90.00</u>

2. Material

Brass parliament hinges 5" x 5"	1	No. @	400.00	400.00
Brass screw 1.5" size	12	No. @	9.60	115.20
				<u>515.20</u>
Contractor's profit & overhead		20%		103.04
Total Composite rate				<u>708.24</u>

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Each b) Brass parliament hinges 4" x 4" (100mm x 100mm) size, 12gauge

1. Labour					
Carpenter	0.50	Hrs @	125.00	62.50	
Total				62.50	
Contractor's profit & overhead			20%	12.50	
Total Labour rate				75.00	75
2. Material					
Brass helical spring 6" - single action	1	No. @	350.00	350.00	
Brass screw 1.5" size	12	No. @	9.60	115.20	
				465.20	
Contractor's profit & overhead			20%	93.04	
Total Composite rate				633.24	633

Each c) Iron parliament hinges 5" x 5" (125mm x 125mm) size, 12gauge

1. Labour					
Total Labour rate		Same as in item 16-72(a)		90.00	90
2. Material					
Iron parliament hinges 5" x 5"	1	No. @	43.75	43.75	
Iron screw 1.5"	12	No. @	10.00	120.00	
				163.75	
Contractor's profit & overhead			20%	32.75	
Total Composite rate				286.50	287

Each d) Iron parliament hinges 4" x 4" (100 mm x 100 mm) size, 12gauge

1. Labour					
Total Labour rate		Same as in item 16-72(b)		75.00	75
2. Material					
Iron parliament hinges 4" x 4"	1	No. @	43.75	43.75	
Iron screw 1.5"	12	No. @	10.00	120.00	
				163.75	
Contractor's profit & overhead			20%	32.75	
Total Composite rate				271.50	272

Item No. 16-73

Providing and fixing approved heavy type G.I tee hinges with screws.

Each a) Tee hinges 18" (450 mm) size

1. Labour					
Carpenter	0.50	Hrs @	125.00	62.50	
Total				62.50	
Contractor's profit & overhead			20%	12.50	
Total Labour rate				75.00	75
2. Material					
G.I. tee hinges 18"	1	No. @	80.00	80.00	
Iron screw 1.5"	6	No. @	10.00	60.00	
				140.00	
Contractor's profit & overhead			20%	28.00	
Total Composite rate				243.00	243

Each b) Tee hinges 12" (300 mm) size

1. Labour					
Total Labour rate		Same as in item 16-72(a)		75.00	75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	G.I. tee hinges 12"	1	No. @	70.00
	Iron screw 1.5"	6	No. @	10.00
				<u>60.00</u>
				130.00
	Contractor's profit & overhead		20%	26.00
	Total Composite rate			<u>231.00</u>
				231
Each c) Tee hinges 10" (250 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-72(a)		75.00
				75
2. Material				
	G.I. tee hinges 10"	1	No. @	50.00
	Iron screw 1.5"	6	No. @	10.00
				<u>60.00</u>
				110.00
	Contractor's profit & overhead		20%	22.00
	Total Composite rate			<u>207.00</u>
				207
Item No. 16-74				
Providing and fixing approved sliding bolts or aldrop bolt of sizes with screws of same metal and G.I. bolts and nuts				
Each a) Brass sliding bolts				
i) 12" x 3/4" (300 mm x 19 mm) size				
1. Labour				
	Carpenter	0.75	Hrs @	125.00
	Total			<u>93.75</u>
				93.75
	Contractor's profit & overhead		20%	18.75
	Total Labour rate			<u>112.50</u>
				113
2. Material				
	Brass sliding bolt 12" x 3/4"	1	No. @	1000.00
	Brass screw 1.25" size	10	No. @	6.00
	Bolts and nuts	4	No. @	2.00
				<u>8.00</u>
				1068.00
	Contractor's profit & overhead		20%	213.60
	Total Composite rate			<u>1394.10</u>
				1,394
ii) 10" x 5/8" (250 mm x 16 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)		112.50
				113
2. Material				
	Brass sliding bolt 10" x 5/8"	1	No. @	800.00
	Brass screw 1.25" size	10	No. @	6.00
	Bolts and nuts	4	No. @	2.00
				<u>8.00</u>
				868.00
	Contractor's profit & overhead		20%	173.60
	Total Composite rate			<u>1154.10</u>
				1,154
iii) 9" x 5/8" (225 mm x 16 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)		112.50
				113
2. Material				
	Brass sliding bolt 9" x 5/8"	1	No. @	700.00
	Brass screw 1.25" size	10	No. @	6.00
	Bolts and nuts	4	No. @	2.00
				<u>8.00</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			768.00	
	Contractor's profit & overhead	20%	153.60	
	Total Composite rate		1034.10	1,034
iv) 6" x 1/2" (150 mm x 13 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)	112.50	113
2. Material				
	Brass sliding bolt 6" x 1/2"	1 No. @	450.00	450.00
	Brass screw 1.25" size	4 No. @	6.00	24.00
	Bolts and nuts	4 No. @	2.00	8.00
			482.00	
	Contractor's profit & overhead	20%	96.40	
	Total Composite rate		690.90	691
Each b) Chromium plated brass sliding bolts				
i) 12" x 3/4" (300 mm x 19 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)	112.50	113
2. Material				
	C.P. brass sliding bolt 12" x 3/4"	1 No. @	845.00	845.00
	Brass screw 1.25" size	10 No. @	6.00	60.00
	Bolts and nuts	4 No. @	2.00	8.00
			913.00	
	Contractor's profit & overhead	20%	182.60	
	Total Composite rate		1208.10	1,208
ii) 10" x 5/8" (250 mm x 16 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)	112.50	113
2. Material				
	C.P. brass sliding bolt 10" x 5/8"	1 No. @	550.00	550.00
	Brass screw 1.25" size	10 No. @	6.00	60.00
	Bolts and nuts	4 No. @	2.00	8.00
			618.00	
	Contractor's profit & overhead	20%	123.60	
	Total Composite rate		854.10	854
iii) 9" x 5/8" (225 mm x 16 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)	112.50	113
2. Material				
	C.P. brass sliding bolt 9" x 5/8"	1 No. @	215.00	215.00
	Brass screw 1.25" size	10 No. @	6.00	60.00
	Bolts and nuts	4 No. @	2.00	8.00
			283.00	
	Contractor's profit & overhead	20%	56.60	
	Total Composite rate		452.10	452
iv) 6" x 1/2" (150 mm x 13 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)	112.50	113
2. Material				
	C.P. brass sliding bolt 6" x 1/2"	1 No. @	195.00	195.00
	Brass screw 1.25" size	4 No. @	6.00	24.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Bolts and nuts	4	No. @ 2.00	8.00
				227.00
	Contractor's profit & overhead		20%	45.40
	Total Composite rate			384.90
				385
Each c) Iron sliding bolts				
i) 15" x 3/4" (375 mm x 19 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)		112.50
				113
2. Material				
	Iron sliding bolt 15" x 3/4"	1	No. @ 175.00	175.00
	Iron screw 1.25	13	No. @ 8.00	104.00
	Bolts and nuts	4	No. @ 2.00	8.00
				287.00
	Contractor's profit & overhead		20%	57.40
	Total Composite rate			456.90
				457
ii) 12" x 3/4" (300 mm x 19 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)		112.50
				113
2. Material				
	Iron sliding bolt 12" x 5/8"	1	No. @ 150.00	150.00
	Iron screw 1.25	10	No. @ 8.00	80.00
	Bolts and nuts	4	No. @ 2.00	8.00
				238.00
	Contractor's profit & overhead		20%	47.60
	Total Composite rate			398.10
				398
iii) 10" x 5/8" (250 mm x 16 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)		112.50
				113
2. Material				
	Iron sliding bolt 10" x 5/8"	1	No. @ 125.00	125.00
	Iron screw 1.25	10	No. @ 8.00	80.00
	Bolts and nuts	4	No. @ 2.00	8.00
				213.00
	Contractor's profit & overhead		20%	42.60
	Total Composite rate			368.10
				368
iv) 9" x 5/8" (225 mm x 16 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)		112.50
				113
2. Material				
	Iron sliding bolt 9" x 5/8"	1	No. @ 90.00	90.00
	Iron screw 1.25	10	No. @ 8.00	80.00
	Bolts and nuts	4	No. @ 2.00	8.00
				178.00
	Contractor's profit & overhead		20%	35.60
	Total Composite rate			326.10
				326
v) 6" x 1/2" (150 mm x 13 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-74(a)		112.50
				113

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Material					
Iron sliding bolt 6" x 1/2"	1	No. @	60.00	60.00	
Iron screw 1.25	4	No. @	8.00	32.00	
Bolts and nuts	4	No. @	2.00	8.00	
				<u>100.00</u>	
Contractor's profit & overhead			20%	20.00	
Total Composite rate				<u>232.50</u>	233

Item No. 16-75

Providing and fixing approved tower bolts with screws of same metal

Each a) Brass tower bolts**i) 6" (150 mm) size**

1. Labour					
Carpenter	0.50	Hrs @	125.00	62.50	
Total				<u>62.50</u>	
Contractor's profit & overhead			20%	12.50	
Total Labour rate				<u>75.00</u>	75

2. Material					
Brass tower bolt 6"	1	No. @	100.00	100.00	
Brass screw 3/4" size	6	No. @	3.60	21.60	
				<u>121.60</u>	
Contractor's profit & overhead			20%	24.32	
Total Composite rate				<u>220.92</u>	221

ii) 9" (225 mm) size

1. Labour					
Total Labour rate		Same as in item 16-75(a)		75.00	75

2. Material					
Brass tower bolt 9"	1	No. @	120.00	120.00	
Brass screw 3/4" size	8	No. @	3.60	28.80	
				<u>148.80</u>	
Contractor's profit & overhead			20%	29.76	
Total Composite rate				<u>253.56</u>	254

iii) 12" (300 mm) size

1. Labour					
Total Labour rate		Same as in item 16-75(a)		75.00	75

2. Material					
Brass tower bolt 12"	1	No. @	150.00	150.00	
Brass screw 3/4" size	12	No. @	3.60	43.20	
				<u>193.20</u>	
Contractor's profit & overhead			20%	38.64	
Total Composite rate				<u>306.84</u>	307

Each b) Chromium plated brass tower bolts**i) 6" (150 mm) size**

1. Labour					
Total Labour rate		Same as in item 16-75(a)		75.00	75

2. Material				
C.P. brass tower bolt 6"	1	No. @	400.00	400.00
Brass screw 3/4" size	6	No. @	3.60	21.60
				<u>421.60</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	84.32	
	Total Composite rate		580.92	581
ii) 9" (225 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-75(a)	75.00	75
2. Material				
	C.P. brass tower bolt 9"	1	No. @ 575.00	575.00
	Brass screw 3/4" size	8	No. @ 3.60	28.80
				603.80
	Contractor's profit & overhead	20%	120.76	
	Total Composite rate		799.56	800
iii) 12" (300 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-75(a)	75.00	75
2. Material				
	C.P. brass tower bolt 12"	1	No. @ 1100.00	1100.00
	Brass screw 3/4" size	12	No. @ 3.60	43.20
				1143.20
	Contractor's profit & overhead	20%	228.64	
	Total Composite rate		1446.84	1,447
Each c) Aluminium tower bolts				
i) 4" (100 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-75(a)	75.00	75
2. Material				
	Aluminium tower bolt 4"	1	No. @ 110.00	110.00
	Brass screw 3/4" size	6	No. @ 3.60	21.60
				131.60
	Contractor's profit & overhead	20%	26.32	
	Total Composite rate		232.92	233
ii) 6" (150 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-75(a)	75.00	75
2. Material				
	Aluminium tower bolt 6"	1	No. @ 150.00	150.00
	Brass screw 3/4" size	8	No. @ 3.60	28.80
				178.80
	Contractor's profit & overhead	20%	35.76	
	Total Composite rate		289.56	290
iii) 8" (200 mm) size				
1. Labour				
	Total Labour rate	Same as in item 16-75(a)	75.00	75
2. Material				
	Aluminium tower bolt 8"	1	No. @ 200.00	200.00
	Brass screw 3/4" size	12	No. @ 3.60	43.20
				243.20
	Contractor's profit & overhead	20%	48.64	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	366.84	367
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Item No. 16-76

Providing and fixing approved heavy duty safety hasp and staple with necessary screws of the same metal

Each a) Brass hasp and staple**i) 5" (125 mm) size**

1. Labour							
Carpenter	0.15	Hrs	@	125.00	18.75		
Total					18.75		
Contractor's profit & overhead				20%	3.75		
Total Labour rate					22.50		23

2. Material							
Brass hasp & staple 5"	1	No.	@	510.00	510.00		
Brass screw 3/4" size	7	No.	@	3.60	25.20		
					535.20		
Contractor's profit & overhead				20%	107.04		
Total Composite rate					664.74		665

ii) 4" (100 mm) size

1. Labour							
Total Labour rate				Same as in item 16-76(a)	22.50		23

2. Material							
Brass hasp & staple 4"	1	No.	@	500.00	500.00		
Brass screw 3/4" size	7	No.	@	3.60	25.20		
					525.20		
Contractor's profit & overhead				20%	105.04		
Total Composite rate					652.74		653

iii) 3" (75 mm) size

1. Labour							
Total Labour rate				Same as in item 16-76(a)	22.50		23

2. Material							
Brass hasp & staple 3"	1	No.	@	460.00	460.00		
Brass screw 3/4" size	6	No.	@	3.60	21.60		
					481.60		
Contractor's profit & overhead				20%	96.32		
Total Composite rate					600.42		600

iv) 2" (50 mm) size

1. Labour							
Total Labour rate				Same as in item 16-76(a)	22.50		23

2. Material							
Brass hasp & staple 2"	1	No.	@	450.00	450.00		
Brass screw 3/4" size	6	No.	@	3.60	21.60		
					471.60		
Contractor's profit & overhead				20%	94.32		
Total Composite rate					588.42		588

Each b) Iron hasp and staple**i) 5" (125 mm) size**

Unit	Description	Component Cost		Unit Rate	
				(Rs)	(Rs)
1. Labour					
Total Labour rate	Same as in item 16-76(a)			22.50	23
2. Material					
Iron hasp & staple 5"	1	No.	@	56.25	56.25
Iron screw 3/4"	7	No.	@	7.00	49.00
					105.25
Contractor's profit & overhead				20%	21.05
Total Composite rate					148.80
					149
ii) 4" (100 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-76(a)			22.50	23
2. Material					
Iron hasp & staple 4"	1	No.	@	37.50	37.50
Iron screw 3/4"	7	No.	@	7.00	49.00
					86.50
Contractor's profit & overhead				20%	17.30
Total Composite rate					126.30
					126
iii) 3" (75 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-76(a)			22.50	23
2. Material					
Iron hasp & staple 3"	1	No.	@	31.25	31.25
Iron screw 3/4"	6	No.	@	7.00	42.00
					73.25
Contractor's profit & overhead				20%	14.65
Total Composite rate					110.40
					110
iv) 2" (50 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-76(a)			22.50	23
2. Material					
Iron hasp & staple 2"	1	No.	@	22.50	22.50
Iron screw 3/4"	6	No.	@	7.00	42.00
					64.50
Contractor's profit & overhead				20%	12.90
Total Composite rate					99.90
					100
Each c) Chromium plated					
i) 5" (125 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-76(a)			22.50	23
2. Material					
C.P. hasp & staple 5"	1	No.	@	52.80	52.80
C.P. brass screw (1.5")	6	No.	@	55.00	330.00
					382.80
Contractor's profit & overhead				20%	76.56
Total Composite rate					481.86
					482
ii) 4" (100 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-76(a)			22.50	23
2. Material					

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
	C.P. hasp & staple 4"	1	No. @	49.50	49.50	
	C.P. brass screw (1.5")	6	No. @	55.00	330.00	
					<u>379.50</u>	
	Contractor's profit & overhead			20%	75.90	
	Total Composite rate				<u>477.90</u>	478
iii) 3" (75 mm) size						
1. Labour						
	Total Labour rate	Same as in item 16-76(a)			22.50	23
2. Material						
	C.P. hasp & staple 3"	1	No. @	44.00	44.00	
	C.P. brass screw (1.5")	6	No. @	55.00	330.00	
					<u>374.00</u>	
	Contractor's profit & overhead			20%	74.80	
	Total Composite rate				<u>471.30</u>	471
iv) 2" (50 mm) size						
1. Labour						
	Total Labour rate	Same as in item 16-76(a)			22.50	23
2. Material						
	C.P. hasp & staple 2"	1	No. @	27.50	27.50	
	C.P. brass screw (1.5")	6	No. @	55.00	330.00	
					<u>357.50</u>	
	Contractor's profit & overhead			20%	71.50	
	Total Composite rate				<u>451.50</u>	452
Item No. 16-77						
Providing and fixing approved heavy duty safety handle with necessary screws of the same metal						
Each a) Brass						
i) 7" (175 mm) size						
1. Labour						
	Carpenter	0.500	Hrs @	125.00	62.50	
	Total				<u>62.50</u>	
	Contractor's profit & overhead			20%	12.50	
	Total Labour rate				<u>75.00</u>	75
2. Material						
	Brass handle size 175 mm	1	No. @	500.00	500.00	
	Brass screw 1.25" size	6	No. @	6.00	36.00	
					<u>536.00</u>	
	Contractor's profit & overhead			20%	107.20	
	Total Composite rate				<u>718.20</u>	718
ii) 5" (125 mm) size						
1. Labour						
	Total Labour rate	Same as in item 16-77(a)			75.00	75
2. Material						
	Brass handle size 125 mm	1	No. @	300.00	300.00	
	Brass screw 1.25" size	5	No. @	6.00	30.00	
					<u>330.00</u>	
	Contractor's profit & overhead			20%	66.00	
	Total Composite rate				<u>471.00</u>	471
iii) 4" (100 mm) size						
1. Labour						

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
Total Labour rate	Same as in item 16-77(a)			75.00	75
2. Material					
Brass handle size 100 mm	1	No.	@	250.00	250.00
Brass screw 1.25" size	5	No.	@	6.00	30.00
					<u>280.00</u>
Contractor's profit & overhead				20%	56.00
Total Composite rate					<u>411.00</u> 411
Each b) Iron handle					
i) 5" (125 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-77(a)			75.00	75
2. Material					
Iron handle 5"	1	No.	@	87.50	87.50
Iron screw 1.25	6	No.	@	8.00	48.00
					<u>135.50</u>
Contractor's profit & overhead				20%	27.10
Total Composite rate					<u>237.60</u> 238
ii) 4" (100 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-77(a)			75.00	75
2. Material					
Iron handle 4"	1	No.	@	75.00	75.00
Iron screw 1.25	5	No.	@	8.00	40.00
					<u>115.00</u>
Contractor's profit & overhead				20%	23.00
Total Composite rate					<u>213.00</u> 213
Each c) Chromium plated					
i) 7" (175 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-77(a)			75.00	75
2. Material					
C.P. brass handle 7" size	1	No.	@	110.00	110.00
C.P. brass screw (1.5")	6	No.	@	55.00	330.00
					<u>440.00</u>
Contractor's profit & overhead				20%	88.00
Total Composite rate					<u>603.00</u> 603
ii) 5" (125 mm) size					
1. Labour					
Total Labour rate	Same as in item 16-77(a)			75.00	75
2. Material					
C.P. brass handle 5" size	1	No.	@	90.00	90.00
C.P. brass screw (1.5")	5	No.	@	55.00	275.00
					<u>365.00</u>
Contractor's profit & overhead				20%	73.00
Total Composite rate					<u>513.00</u> 513
iii) 4" (100 mm) size					

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
1. Labour			
Total Labour rate	Same as in item 16-77(a)	75.00	75
2. Material			
C.P. brass handle 4" size	1 No. @	70.00	70.00
C.P. brass screw (1.5")	5 No. @	55.00	275.00
		345.00	
Contractor's profit & overhead		20%	69.00
Total Composite rate		489.00	489

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-78

Providing and fixing approved curved or circular 5/8" (16mm) dia. rod handle upto 5" (125mm) size with brass screws

Each a) Brass handle

1. Labour						
Carpenter	1.00	Hrs	@	125.00	125.00	
Total					125.00	
Contractor's profit & overhead				20%	25.00	
Total Labour rate					150.00	150

2. Material

Brass circular rod handle 5" size	1	No.	@	110.00	110.00	
Brass screw 1.25" size	5	No.	@	6.00	30.00	
					140.00	
Contractor's profit & overhead				20%	28.00	
Total Composite rate					318.00	318

Each b) C.P. handle

1. Labour						
Total Labour rate		Same as in item 16-78(a)			150.00	150

2. Material

C.P. brass handle 5" size	1	No.	@	90.00	90.00	
Brass screw 1.25" size	5	No.	@	6.00	30.00	
					120.00	
Contractor's profit & overhead				20%	24.00	
Total Composite rate					294.00	294

Item No. 16-79-1

Each Providing and fixing approved 6" (150mm) size fancy brass heavy type door knob (handle) with plates and screws

1. Labour						
Carpenter	2.00	Hrs	@	125.00	250.00	
Total					250.00	
Contractor's profit & overhead				20%	50.00	
Total Labour rate					300.00	300

2. Material

Brass handle with plate	1	No.	@	750.00	750.00	
Brass screw 1.25" size	6	No.	@	6.00	36.00	
					786.00	
Contractor's profit & overhead				20%	157.20	
Total Composite rate					1243.20	1,243

Item No. 16-80

Providing and fixing approved section hook and eye

Each a) Brass**i) 6" (150 mm) size**

1. Labour						
Carpenter	0.50	Hrs	@	125.00	62.50	
Total					62.50	
Contractor's profit & overhead				20%	12.50	
Total Labour rate					75.00	75

2. Material

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
	Brass hook & eye 6"	1	No. @	600.00	600.00	
	Contractor's profit & overhead			20%	120.00	
	Total Composite rate				795.00	795
ii) 4" (100 mm) size						
1. Labour						
	Total Labour rate			Same as in item 16-80(a)	75.00	75
2. Material						
	Brass hook & eye 4"	1	No. @	350.00	350.00	
	Contractor's profit & overhead			20%	70.00	
	Total Composite rate				495.00	495
Each b) Galvanized iron						
i) 6" (150 mm) size						
1. Labour						
	Total Labour rate			Same as in item 16-80(a)	75.00	75
2. Material						
	G.I. hook & eye 6"	1	No. @	175.00	175.00	
	Contractor's profit & overhead			20%	35.00	
	Total Composite rate				285.00	285
ii) 4" (100 mm) size						
1. Labour						
	Total Labour rate			Same as in item 16-80(a)	75.00	75
2. Material						
	G.I. hook & eye 4"	1	No. @	150.00	150.00	
	Contractor's profit & overhead			20%	30.00	
	Total Composite rate				255.00	255
Item No. 16-81						
Providing and fixing floor socket of approved size and section in floors for fixing tower bolts including cutting and making good the floor.						
Each a) Brass socket						
1. Labour						
	Mason	0.25	Hrs @	125.00	31.25	
	Labourer	0.15	Hrs @	87.50	13.13	
	Total				44.38	
	Contractor's profit & overhead			20%	8.88	
	Total Labour rate				53.25	53
2. Material						
	Brass socket for floor	1	No. @	100.00	100.00	
	Cement sand mortar			15%	15.00	
					115.00	
	Contractor's profit & overhead			20%	20.00	
	Total Composite rate				188.25	188

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Each b) Iron socket

1. Labour					
Total Labour rate	Same as in item 16-81(a)		53.25	53	
2. Material					
Iron socket for floor	1	No. @	8.00	8.00	
Cement sand mortar			15%	1.20	
				9.20	
Contractor's profit & overhead			20%	1.60	
Total Composite rate			64.05	64	

Item No. 16-82

Sq.m. Providing and fixing wooden box type wardrobe 22" (550mm) deep including 3/4" (19mm) thick boxing and shelves hanger rods, hardboard 3/16" (5mm) thick back drawers, brass fitting, locking arrangement, handles, internal bolts, shoe rods including painting.

Detail of cost for 28 Sq.ft.

Deodar Wood:

Side	4x7.0x1'-10"x3/48	3.208	Cu.ft
Top & bottom	3x1'-10"x4.0x3/48	1.375	Cu.ft
Front	5x4x7x3/48	2.188	Cu.ft
Dividing steps	10x7.0x1'-10"x3/48	1.146	Cu.ft
Shelves	4x2.0x1'-10"x3/48	0.917	Cu.ft
Drawers	4x2x1'-10"x0.5x3/48	0.458	Cu.ft
Bottom	3x1'-10.5"x1'-10"x3/48	0.344	Cu.ft
	5x2x0.5x3/48	0.313	Cu.ft
Total		9.95	Cu.ft
Wastage	25%	2.487	Cu.ft
		12.433	Cu.ft

3/16" hard board masonite

Back	1x7x4.0	28.00	Sq.ft.
Wastage	10%	2.80	Sq.ft.
		30.80	Sq.ft.

Painting:

Sides	2x2x7x4	112.00	Sq.ft.
Top & bottom	2x2x1.83x4.0	29.28	Sq.ft.
Front	2x4x7	56.00	Sq.ft.
Dividing steps	2x7x1.834	25.68	Sq.ft.
Shelves	2x2x2x1.83	14.64	Sq.ft.
Drawers	2x2x1.83x0.5	3.66	Sq.ft.
	2x2x1.88x0.5	3.76	Sq.ft.
	2x2x2x0.5	144.00	Sq.ft.

Total 389.02 Sq.ft. = 36.15 Sq.m.

Sq.m. a) Deodar wood boxing, shelves, leaves and hardboard masonite 3/16" (5mm) thick back.

1. Labour

Carpenter	22	Hrs @	125.00	2750.00
Labourer	10	Hrs @	87.50	875.00
Total				3625.00
Contractor's profit & overhead			20%	725.00
Total Labour rate				1671.64
				1,672

2. Materials

Wood - deodar 1st class	12.43	Cu.ft. @	5000.00	62166.02
Sawing charges	12.43	Cu.ft. @	87.50	1087.91
Hard board 5 mm thick	30.8	Sq.ft. @	20.00	616.00
Glue	0.17	Kg. @	160.00	27.64
Brass butt hinges 5"	6	No. @	160.00	960.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Brass handle size 175 mm	2	No. @ 500.00	1000.00
	Wooden gutees	30	No. @ 4.00	120.00
	Tie rod	2	No. @ 37.50	75.00
	Sunk handle	2	No. @ 33.00	66.00
	Wooden rod for shoes	2	No. @ 13.00	26.00
	Hanger hook with pullout rod	2	No. @ 55.00	110.00
	Nail of all sizes	0.91	Kg. @ 90.00	81.82
	Total materials cost			<u>66336.38</u>
	Painting	36.154	Sq.m. @ 325.00	<u>11750.02</u>
				78086.39
	Contractor's profit & overhead		20%	<u>13267.28</u>
	Total Composite rate			<u>66785.04</u>
				66,785

Sq.m. b) Kail wood boxing and deodar wood shelves, leaves and hard board masonite 3/16" (5mm) thick back.

Considering size and specifications same as item 16-82(a)

Deodar wood

Side	2x7.0x1'-10"x3/48	3.21	Cu.ft
Front	1x4x7x3/48	2.19	Cu.ft
Shelves	2x2.0x1'-10"x3/48	0.92	Cu.ft
		<u>6.31</u>	Cu.ft
Wastage	15%	0.95	Cu.ft
		<u>7.26</u>	Cu.ft

Kail wood

Top & bottom	2x1'-10"x4.0x3/48	0.917	Cu.ft
Dividing steps	1x7.0x1'-10"x3/48	0.802	Cu.ft
Drawers	2x2x1'-10"x0.5x3/48	0.229	Cu.ft
Bottom	2x1'-10.5"x1'-10"x3/48	0.215	Cu.ft
	2x2x0.5x3/48	0.125	Cu.ft
Total		<u>2.29</u>	Cu.ft
Wastage	25%	0.572	Cu.ft
		<u>2.859</u>	Cu.ft

1. Labour

Carpenter	18	Hrs @ 125.00	2250.00
Labourer	8	Hrs @ 87.50	<u>700.00</u>
Total			2950.00
Contractor's profit & overhead		20%	<u>590.00</u>
Total Labour rate			<u>1360.37</u>

1,360

2. Materials

Wood - Kail 1st class	7.26	Cu.ft. @ 3500.00	25410.00
Wood - deodar 1st class	2.86	Cu.ft. @ 5000.00	14300.00
Sawing charges	10.12	Cu.ft. @ 87.50	885.50
Hard board 5 mm thick	30.8	Sq.ft. @ 20.00	616.00
Glue	0.17	Kg. @ 160.00	27.20
Brass butt hinges 5"	6	No. @ 160.00	960.00
Brass handle size 175 mm	2	No. @ 500.00	1000.00
Wooden gutees	30	No. @ 4.00	120.00
Tie rod	2	No. @ 37.50	75.00
Sunk handle	2	No. @ 33.00	66.00
Wooden rod for shoes	2	No. @ 13.00	26.00
Hanger hook with pullout rod	2	No. @ 55.00	110.00
Nail of all sizes	0.91	Kg. @ 90.00	81.82
Total materials cost			<u>43677.52</u>
Painting	36.154	sq.m @ 325.00	<u>11750.05</u>

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	55427.57	
		8735.50	
Total Composite rate		<u>47317.35</u>	47,317

Sq.m. c) Laminated board 3/4" (19mm) thick boxing, shelves and back with 3/4" thick deodar wood vaneer board

Detail of cost for 28 Sq.ft.

3/4" thick laminated board

Side	2x7.0x1'-10"	25.66	Sq.ft
Top & bottom	2x1'-10"x4.0	14.66	Sq.ft
Back	1x7x4.0	28.00	Sq.ft.
Dividing steps	1x7.0x1'-10"	12.83	Sq.ft
Shelves	2x2.0x1'-10"	7.33	Sq.ft
Total		<u>88.49</u>	Sq.ft
Wastage	10%	8.85	Sq.ft
		<u>97.34</u>	Sq.ft

Deodar Wood:

Drawers	2x2x1'-10"x0.5x3/48	0.23	Cu.ft
Bottom	2x1'-10.5"x1'-10"x3/48	0.21	Cu.ft
	2x2x0.5x3/48	0.13	Cu.ft
		<u>0.57</u>	Cu.ft
Wastage	20%	0.11	Cu.ft
		<u>0.68</u>	Cu.ft

Deodar wood vaneer board

Front	1x4x7	28.00	Sq.ft.
Wastage	10%	2.80	Sq.ft.
		<u>30.80</u>	Sq.ft.

1. Labour

Carpenter	12	Hrs	@	125.00	1500.00
Labourer	6	Hrs	@	87.50	525.00
Total					<u>2025.00</u>
Contractor's profit & overhead				20%	405.00
Total Labour rate					<u>933.81</u>

2. Materials

Laminated board 3/4" thick	97.34	Sq. ft.	@	50.00	4867.00
Deodar wood vaneer board 3/4" thick	30.80	Sq. ft.	@	60.00	1848.00
Wood - deodar 1st class	0.68	Cu.ft.	@	5000.00	3400.00
Sawing charges	0.68	Cu.ft.	@	87.50	59.50
Glue	0.17	Kg.	@	160.00	27.20
Brass butt hinges 5"	6	No.	@	160.00	960.00
Brass handle size 175 mm	2	No.	@	500.00	1000.00
Wooden gutees	30	No.	@	4.00	120.00
Tie rod	2	No.	@	37.50	75.00
Sunk handle	2	No.	@	33.00	66.00
Wooden rod for shoes	2	No.	@	13.00	26.00
Hanger hook with pullout rod	2	No.	@	55.00	110.00
Nail of all sizes	3.00	Kg.	@	90.00	270.00
					<u>12828.70</u>

Contractor's profit & overhead	20%	2565.74	
Total Composite rate		<u>6849.68</u>	6,850

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-83-1**Each Making and fixing cleats for doors and windows including hinges and screws.**

Detail of cost for 10 Nos.

1. Labour

Carpenter 2.00 Hrs @ 125.00 250.00

Labourer 1.00 Hrs @ 87.50 87.50

Total 337.50

Contractor's profit & overhead 20% 67.50

Total Labour rate 40.50

41

2. Material

Wood - deodar 1st class 0.21 Cu.ft. @ 5000.00 1050.00

Sawing charges 0.21 Cu.ft. @ 87.50 18.38

Iron butt hinge 2" 10 No. @ 75.00 750.00

Nail, screws & washers 0.50 Kg. @ 90.00 45.00

1863.38

Contractor's profit & overhead 20% 372.68

Total Composite rate 264.11

264**Item No. 16-84-1****Each Making and fixing cleats with brass hooks for roof ventilators**

1. Labour

Carpenter 0.25 Hrs @ 125.00 31.25

Labourer 0.25 Hrs @ 87.50 21.88

Total 53.13

Contractor's profit & overhead 20% 10.63

Total Labour rate 63.75

64

2. Material

Wood - deodar 1st class 0.01 Cu.ft. @ 5000.00 50.00

Sawing charges 0.01 Cu.ft. @ 87.50 0.88

Brass hook 1.00 No. @ 90.00 90.00

Nail, screws & washers 0.25 Kg. @ 90.00 22.50

163.38

Contractor's profit & overhead 20% 32.68

Total Composite rate 259.80

260**Item No. 16-85-1****Each Making and fixing 1" (25mm) thick partial wood notice board with frame.**

Detail of cost for 18 Sq.ft.

1. Labour

Carpenter 8.00 Hrs @ 125.00 1000.00

Labourer 4.00 Hrs @ 87.50 350.00

Total 1350.00

Contractor's profit & overhead 20% 270.00

Total Labour rate 968.40

968

2. Material

Wood - Partial 1.80 Cu.ft. @ 1200.00 2160.00

Sawing charges 1.80 Cu.ft. @ 87.50 157.50

Nail of all sizes 0.11 Kg. @ 90.00 10.23

2327.73

Contractor's profit & overhead 20% 465.55

Total Composite rate 2638.16

2,638

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-86

Providing and fixing glass panes in wooden or steel frames of doors, windows and ventilators etc. complete in all respect.

Detail of cost for 10 Sq.m.

Glass panes		10.00	Sq.m
Wastage	5%	0.50	Sq.m
		<u>10.50</u>	Sq.m

a) 5 mm. thick glass panes**Sq.m. i) Clear glass local**

1. Labour						
Glazier	0.50	Hrs @	125.00		62.50	
Helper	0.50	Hrs @	75.00		37.50	
Total					<u>100.00</u>	
Contractor's profit & overhead			20%		20.00	
Total Labour rate					<u>120.00</u>	120

2. Material						
Glass 5 mm thick plain (local)	10.50	Sq.m. @	1291.20		13557.60	
3. Sundries			10%		1355.76	
Total of 2 & 3					<u>14913.36</u>	
Contractor's profit & overhead			20%		2982.67	
Total Composite rate					<u>1909.60</u>	1,910

Sq.m. ii) Unclear glass local

1. Labour						
Total Labour rate	Same as in item 16-86(a)				120.00	120
2. Material						
Glass 5 mm thick unclear (local)	10.50	Sq.m. @	1129.80		11862.90	
3. Sundries			10%		1186.29	
Total of 2 & 3					<u>13049.19</u>	
Contractor's profit & overhead			20%		2609.84	
Total Composite rate					<u>1685.90</u>	1,686

Sq.m. iii) Tinted glass local

1. Labour						
Total Labour rate	Same as in item 16-86(a)				120.00	120
2. Material						
Glass 5 mm thick tinted (local)	10.50	Sq.m. @	1775.40		18641.70	
3. Sundries			10%		1864.17	
Total of 2 & 3					<u>20505.87</u>	
Contractor's profit & overhead			20%		4101.17	
Total Composite rate					<u>2580.70</u>	2,581

b) 6 mm. thick glass panes**Sq.m. i) Clear glass local**

1. Labour						
Total Labour rate	Same as in item 16-86(a)				120.00	120
2. Material						
Glass 6 mm thick plain (local)	10.50	Sq.m. @	1350.00		14175.00	
3. Sundries			10%		1417.50	
Total of 2 & 3					<u>15592.50</u>	
Contractor's profit & overhead			20%		3118.50	
Total Composite rate					<u>1991.10</u>	1,991

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. ii) Unclear glass local

1. Labour					
Total Labour rate	Same as in item 16-86(a)			120.00	120
2. Material					
Glass 6 mm thick unclear (local)	10.50	Sq.m. @	1450.00	15225.00	
3. Sundries			10%	1522.50	
Total of 2 & 3				16747.50	
Contractor's profit & overhead			20%	3349.50	
Total Composite rate				2129.70	2,130

Sq.m. iii) Tinted glass local

1. Labour					
Total Labour rate	Same as in item 16-86(a)			120.00	120
2. Material					
Glass 6 mm thick tinted (local)	10.50	Sq.m. @	1850.00	19425.00	
3. Sundries			10%	1942.50	
Total of 2 & 3				21367.50	
Contractor's profit & overhead			20%	4273.50	
Total Composite rate				2684.10	2,684

Sq.m. iv) Clear glass imported

1. Labour					
Total Labour rate	Same as in item 16-86(a)			120.00	120
2. Material					
Glass 6 mm thick plain (imported)	10.50	Sq.m. @	1950.00	20475.00	
3. Sundries			10%	2047.50	
Total of 2 & 3				22522.50	
Contractor's profit & overhead			20%	4504.50	
Total Composite rate				2822.70	2,823

Sq.m. v) Tinted glass imported

1. Labour					
Total Labour rate	Same as in item 16-86(a)			120.00	120
2. Material					
Glass 6 mm thick tinted (imported)	10.50	Sq.m. @	2100.00	22050.00	
3. Sundries			10%	2205.00	
Total of 2 & 3				24255.00	
Contractor's profit & overhead			20%	4851.00	
Total Composite rate				3030.60	3,031

c) 3 mm. thick glass panes**Sq.m. i) Clear glass local**

1. Labour					
Total Labour rate	Same as in item 16-86(a)			120.00	120
2. Material					
Glass 3 mm thick plain (local)	10.50	Sq.m. @	807.00	8473.50	
3. Sundries			10%	847.35	
Total of 2 & 3				9320.85	
Contractor's profit & overhead			20%	1864.17	
Total Composite rate				1238.50	1,239

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. ii) Unclear glass local

1. Labour			
Total Labour rate	Same as in item 16-86(a)	120.00	120
2. Material			
Glass 3 mm thick unclear (local)	10.50 Sq.m. @	645.60	6778.80
3. Sundries		10%	677.88
Total of 2 & 3			7456.68
Contractor's profit & overhead		20%	1491.34
Total Composite rate			1014.80

Item No. 16-87

% **Extra for respective payable item of ground floor**

a) For first floor	10%	10%
b) For each additional floor above first floor	7.5%	7.5%

Item No. 16-88-1

Sq.m. Providing and fixing 3/4" (19mm) thick First class Kail wood tongued and grooved plain boarding, or lining on walls, jambs, skirting, cornice, chair rails and archivolt fixed on Kail wood frame backing with rawl plugs on screws, but excluding cost of backing and polishing as required.

Detail of cost for 100 Sq.ft.

Considering a boarding for a room 10'x10' 100 Sq.ft.

Kail wood:

Boarding 1x10'x10'x0.75/12 6.25 Cu.ft.

Tongue and grooved @ 5% 0.313 Cu.ft.

6.563 Cu.ft.

Wastage 20% 1.313 Cu.ft.

7.875 Cu.ft.

1. Labour

Carpenter 25.00 Hrs @ 125.00 3125.00

Labourer 10.00 Hrs @ 87.50 875.00

Total 4000.00

Contractor's profit & overhead 20% 800.00

Total Labour rate 516.48 517

2. Material

Wood - Kail 2nd class 7.875 Cu.ft. @ 1000.00 7875.00

Sawing charges 7.875 Cu.ft. @ 87.50 689.06

Iron screw 1.5" 150 No. @ 10.00 1500.00

Glue 0.455 Kg. @ 160.00 72.73

10136.79

Contractor's profit & overhead 20% 2027.36

Total Composite rate 1825.34 1,825

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 16-89-1

R.M Providing and fixing of wooden moulded beading to door and window frames with iron screws, plugs; 2nd Class Teak Wood 50x12mm

Detail of Cost for 5 meter

(Details of cost for beading for a window of size 140x110 cm-500cm long)

Teak Wood 2nd Class in Planks

500 x 5 x 1.2 cm = 0.0030

Cum

Add 10% Wastage = 0.00330

Cum

1. Labour

Carpenter	4.25	Hrs	@	125.00	531.25	
Contractor's profit & overhead				20%	106.25	
Total Labour rate					127.50	128

2. Material

Teak Wood 2nd Class	0.003	Cu.M	@	87.50	0.29	
Carriage for Timber				10%	0.03	
Iron screw 1.5"	100.000	Nos	@	10.00	1000.00	
Painting with priming coat area = 500(5+1.2+1.2) = 0.37 sq.m Applying priming coat : With ready mixed pink or grey primer (hard & soft wood)	0.370	sq.m	@	325.00	120.25	
Water Charges				1%	11.21	
					1131.77	
Contractor's profit & overhead				20%	226.35	
Total Composite rate					399.13	399

Item No. 16-90-1

Sq.m Providing and fixing of cup-board shutters with 25mm thick veneering particle board (MEDIUM DENSITY) with decorative UV Sheet on one side

Details of Cost for 2.20 Sq.M (2.20x1.00 m = 2.20 Sq.M)

1. Labour

Carpenter	8.00	Hrs	@	125.00	1000.00	
Carpenter Helper	6.00	Hrs	@	87.50	525.00	
Contractor's profit & overhead				20%	305.00	
Total Labour rate					831.82	832

2. Material

25 mm thick Cup-board Shutter	2.20	Sq.M	@	538.00	1183.60	
Extra for Veneer Board on one Side and UV sheet on other Site	2.20	Sq.M	@	322.80	710.16	
Piano Hinges 1mm Thick & 35mm wide	4.50	R.M.	@	123.03	553.64	
Screws 1" Long	12.50	Nos	@	8.00	100.00	
Wooden Lipping 25mm wide x 12mm thick=	7.00	R.M.	@	110.00	770.00	
					3317.40	
Contractor's profit & overhead				20%	663.48	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	2641.31	2,641
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Item No. 16-91-1**Kg Providing and fixing of Aluminium U-beading of required size to pre-laminated / flush door shutters**

Details of Cost for 1.00 kg

1. Labour

Carpenter	4.56	Hrs	@	125.00	570.00	
Carpenter Helper	4.00	Hrs	@	87.50	350.00	
Contractor's profit & overhead				20%	184.00	
Total Labour rate					<u>501.82</u>	502

2. Material

Aluminium U-beading (adding 10 % Wastage)	1.10	kgs	@	450.00	495.00	
Anodized 15 Micron				40%	198.00	
Sundries i/c Screws, fixing , carriage etc.				8%	39.60	
					<u>732.60</u>	
Contractor's profit & overhead				20%	146.52	
Total Composite rate					<u>879.12</u>	879

Item No. 16-92-1**CM Making of Kitchen Cabinet 8'x3' make up from Veneer board (MEDIUM DENSITY) Laminated on both sides, and hanging on wall, i/c all hardwares**

Details of Cost for 8ft long x 3ft high x 2ft deep = 48cft

1. Labour

Carpenter (for Sawing & Cutting)	3.00	Hrs	@	125.00	375.00	
Carpenter (for Making & Fixing)	5.00	Hrs	@	125.00	625.00	
Carpenter helper	5.00	Hrs	@	87.50	437.50	
Contractor's profit & overhead				20%	287.50	
Total Labour rate					<u>1268.95</u>	1,269

2. Material

a) Veneer Board Double Laminated	92.40	sft	@	50.00	4620.00	
i. For Partitions inside cabinet, 1" thick = 16 sft						
ii. For Front Shutters, 1" thick = 24 sft						
iii. For All Sides, 1" thick = 44 sft						
					84 sft	
Adding Wastage of 10%					<u>8.4 sft</u>	
Total					92.4 sft = 8.58 sq.M	
Ply Board 1" Thick for back side of cabinet = 8'x3' i/c 5% wastage	26.40	S.ft	@	48.00	1267.20	
Gola 2"x1/2" on sides and top- Partal Wood	12.00	R.ft.	@	33.54	402.44	
Gola 1"x1/4" - Partal Wood	40.00	R.ft.	@	28.96	1158.54	
Gola 2"x1" for frame - Partal Wood	52.00	R.ft.	@	47.26	2457.32	
Magnetic Latches	8.00	Nos	@	55.00	440.00	
S.S handle 4"	4.00	No.	@	150.00	600.00	
Brass piano hinge	12.00	R.ft.	@	35.00	420.00	
Nail of all sizes	0.50	Kg.	@	90.00	45.00	
Iron screws	0.50	Kg.	@	130.00	65.00	
Glue	1.00	Kg.	@	160.00	160.00	
					<u>11635.49</u>	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Sundries	3%	38.07
	Contractor's profit & overhead	20%	2334.71
	Total Composite rate		11573.79
			11,574

Sq.m. Item No. 16-93-1

Providing and fixing 1/2" (13mm) thick First class Shisham wood panelling in framework 3"x1.5" (75mmx38mm) of same wood on walls, jambs, skirting, cornice, chair rails and archivolt fixed on framed Shisham wood backing with rawl plugs or screws but excluding the cost of polishing as required.

Detail of cost for 100 Sq.ft.

Considering a panelling 10'x10'

Shisham wood:frame	100	Sq.ft.		
Horizontal	2x10'x3"x1.5"	0.63	Cu.ft.	
	1x9'-6"x3"x1.5"	0.30	Cu.ft.	
Vertical	2x10'-6"x3"x1.5"	0.66	Cu.ft.	
	1x9'-9"x3"x1.5"	0.30	Cu.ft.	
Panels	2x2x4'-10"x4'-10"x0.5"	3.89	Cu.ft.	
		5.776	Cu.ft.	
Grooving	5%	0.289	Cu.ft.	
		6.065	Cu.ft.	
Wastage	20%	1.213	Cu.ft.	
		7.28	Cu.ft.	

1. Labour

Carpenter	64.00	Hrs	@	125.00	8000.00
Labourer	24.00	Hrs	@	87.50	2100.00
Total					10100.00
Contractor's profit & overhead				20%	2020.00
Total Labour rate					1304.11

1,304**2. Material**

Wood - Shisham	7.28	Cu.ft.	@	2000.00	14555.00
Sawing charges	7.28	Cu.ft.	@	87.50	636.78
Brass screw 1" size	150	No.	@	4.80	720.00
Glue	0.455	Kg.	@	160.00	72.73
					15984.51
Contractor's profit & overhead				20%	3196.90
Total Composite rate					3368.03

3,368**Sq.m. Item No. 16-94-1**

Providing and fixing 1/2" (13mm) thick First class Deodar wood panelling in framework 3"x1.5" (75mmx38mm) of same wood on walls, jambs, skirting, cornice, chair rails and archivolt fixed on framed Deodar wood backing with rawl plugs or screws but excluding the cost of polishing as required.

Detail of cost for 100 Sq.ft.

Considering a panelling 10'x10'

Deodar wood:frame	100	Sq.ft.		
Horizontal	2x10'x3"x1.5"	0.63	Cu.ft.	
	1x9'-6"x3"x1.5"	0.30	Cu.ft.	
Vertical	2x10'-6"x3"x1.5"	0.66	Cu.ft.	
	1x9'-9"x3"x1.5"	0.30	Cu.ft.	
Panels	2x2x4'-10"x4'-10"x0.5"	3.89	Cu.ft.	
		5.776	Cu.ft.	
Grooving	5%	0.289	Cu.ft.	
		6.065	Cu.ft.	
Wastage	20%	1.213	Cu.ft.	
		7.28	Cu.ft.	

1. Labour

Carpenter	64.00	Hrs	@	125.00	8000.00
Labourer	24.00	Hrs	@	87.50	2100.00
Total					10100.00
Contractor's profit & overhead				20%	2020.00
Total Labour rate					1304.11

1,304**2. Material**

Wood - deodar 1st class	7.28	Cu.ft.	@	5000.00	36387.50
Sawing charges	7.28	Cu.ft.	@	87.50	636.78

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Brass screw 1" size	150	No. @ 4.80	720.00
	Glue	0.455	Kg. @ 160.00	72.73
				<u>37817.01</u>
	Contractor's profit & overhead		20%	7563.40
	Total Composite rate			<u>6187.04</u>
				6,187

Item No. 16-95

Sq.m. **Providing and fixing wooden box type wardrobe 24" (600 mm) deep including 3/4" (19mm) thick boxing and shelves hanger rods, hardboard 3/16" (5mm) thick back drawers, brass fitting, locking arrangement, handles, internal bolts, shoe rods including painting.**

a) UV Medium Density Fibre High Gloss Board 3/4" (19mm) thick Shutters and shelves and back with 3/4" thick laminated veneer board

Detail of cost for 28 Sq.ft.

Laminated veneer board

Side	2x7.0x2	28.00	Sq.ft
Top & bottom	2x2x4.0	16.00	Sq.ft
Back	1x7x4.0	28.00	Sq.ft.
Dividing steps	1x7.0x2	14.00	Sq.ft
Shelves	2x2.0x2	8.00	Sq.ft
Total		<u>94.00</u>	Sq.ft
Wastage	10%	<u>9.40</u>	Sq.ft
		103.40	Sq.ft

Deodar Wood:

Drawers	2x2x2'-0"x0.5x3/48	0.25	Cu.ft
Bottom	2x2'-0"x2x3/48	0.23	Cu.ft
	2x2x0.5x3/48	0.13	Cu.ft
		<u>0.61</u>	Cu.ft
Wastage	20%	<u>0.12</u>	Cu.ft
		0.73	Cu.ft

UV MDF High Gloss Board

Front	1x4x7	28.00	Sq.ft.
Wastage	10%	<u>2.80</u>	Sq.ft.
		30.80	Sq.ft.

1. Labour

Carpenter	12	Hrs @	125.00	1500.00
Labourer	6	Hrs @	87.50	525.00
Total				<u>2025.00</u>
Contractor's profit & overhead			20%	405.00
Total Labour rate				<u>933.81</u>

2. Materials

Laminated board 3/4" thick	103.40	Sq. ft. @	50.00	5170.00
UV MDF High Gloss Board	30.80	Sq. ft. @	210.00	6468.00
Wood - deodar 1st class	0.73	Cu.ft. @	5000.00	3656.25
Sawing charges	0.73	Cu.ft. @	87.50	63.98
Glue	0.17	Kg. @	160.00	27.20
Brass butt hinges 5"	6	No. @	160.00	960.00

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	
	Brass handle size 175 mm	2	No. @	500.00	1000.00
	Wooden gutees	30	No. @	4.00	120.00
	Tie rod	2	No. @	37.50	75.00
	Sunk handle	2	No. @	33.00	66.00
	Wooden rod for shoes	2	No. @	13.00	26.00
	Hanger hook with pullout rod	2	No. @	55.00	110.00
	Nail of all sizes	3.00	Kg. @	90.00	270.00
					<u>18012.43</u>
	Contractor's profit & overhead		20%		3602.49
	Total Composite rate				<u>9240.12</u>
					9,240

b) PVC Board 3/4" (19mm) High Gloss laminated thick Shutters and shelves and back with 3/4" thick plain laminated board

Detail of cost for 28 Sq.ft.

3/4" thick PVC Plain Laminated Board

Side	2x7.0x2	28.00	Sq.ft
Top & bottom	2x2x4.0	16.00	Sq.ft
Back	1x7x4.0	28.00	Sq.ft.
Dividing steps	1x7.0x2	14.00	Sq.ft
Shelves	2x2.0x2	8.00	Sq.ft
Total		<u>94.00</u>	Sq.ft
Wastage	10%	9.40	Sq.ft
		<u>103.40</u>	Sq.ft

Deodar Wood:

Drawers	2x2x2'-0"x0.5x3/48	0.25	Cu.ft
Bottom	2x2'-0"x2x3/48	0.23	Cu.ft
	2x2x0.5x3/48	0.13	Cu.ft
		<u>0.61</u>	Cu.ft
Wastage	20%	0.12	Cu.ft
		<u>0.73</u>	Cu.ft

3/4" thick PVC High Gloss Laminated Board

Front	1x4x7	28.00	Sq.ft.
Wastage	10%	2.80	Sq.ft.
		<u>30.80</u>	Sq.ft.

1. Labour

Carpenter	12	Hrs @	125.00	1500.00
Labourer	6	Hrs @	87.50	525.00
Total				<u>2025.00</u>
Contractor's profit & overhead		20%		405.00
Total Labour rate				<u>933.81</u>
				934

2. Materials

3/4" thick PVC Plain Laminated Board	103.40	Sq. ft. @	100.00	10340.00
3/4" thick PVC High Gloss Laminated Board	30.80	Sq. ft. @	180.00	5544.00
Wood - deodar 1st class	0.73	Cu.ft. @	5000.00	3656.25
Sawing charges	0.73	Cu.ft. @	87.50	63.98
Glue	0.17	Kg. @	160.00	27.20
Brass butt hinges 5"	6	No. @	160.00	960.00
Brass handle size 175 mm	2	No. @	500.00	1000.00
Wooden gutees	30	No. @	4.00	120.00
Tie rod	2	No. @	37.50	75.00
Sunk handle	2	No. @	33.00	66.00
Wooden rod for shoes	2	No. @	13.00	26.00
Hanger hook with pullout rod	2	No. @	55.00	110.00
Nail of all sizes	3.00	Kg. @	90.00	270.00
				<u>22258.43</u>
Contractor's profit & overhead		20%		4451.69
Total Composite rate				<u>11198.13</u>
				11,198

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. Item No. 16-96-1

Providing and fixing 1/2" (13mm) thick MDF (Lasani or equivalent) panelling in framework 3"x1.5" (75mmx38mm) of Deodar wood on walls, jambs, skirting, cornice, chair rails and archivolt fixed on framed Deodar wood backing with rawl plugs or screws but excluding the cost of backing and polishing as required.

Detail of cost for 100 Sq.ft.

Considering a panelling 10'x10' 100 Sq.ft.

Deodar wood:frame

Horizontal 2x10"x3"x1.5" 0.63 Cu.ft.

1x9'-6"x3"x1.5" 0.30 Cu.ft.

Vertical 2x10'-6"x3"x1.5" 0.66 Cu.ft.

1x9'-9"x3"x1.5" 0.30 Cu.ft.

1.883 Cu.ft.

Grooving 5% 0.094 Cu.ft.

1.977 Cu.ft.

Wastage 20% 0.395 Cu.ft.

2.37 Cu.ft.

MDF Panels 100.00 Sft

1. Labour

Carpenter 64.00 Hrs @ 125.00 8000.00

Labourer 24.00 Hrs @ 87.50 2100.00

Total 10100.00

Contractor's profit & overhead 20% 2020.00

Total Labour rate 1304.11 **1,304**

2. Material

3/4" MDF Board (Local) without lamination 100.00 sft @ 60.00 6000.00

Wood - Shisham 2.37 Cu.ft. @ 5000.00 11861.72

Sawing charges 2.37 Cu.ft. @ 87.50 207.58

Brass screw 1" size 150 No. @ 4.80 720.00

Glue 0.455 Kg. @ 160.00 72.73

18862.03

Contractor's profit & overhead 20% 3772.41

Total Composite rate 3739.58 **3,740**

R.m. Item No. 16-97-1

Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge

Extruded section profile size 48x40 mm

Detail of cost for 10 RM.

1. Labour

Carpenter 2.40 Hrs @ 125.00 300.00

Labourer 2.40 Hrs @ 87.50 210.00

Total 510.00

Contractor's profit & overhead 20% 102.00

Total Labour rate 61.20 **61**

2. Material

48mmX40mmX1.5mm 10.00 sft @ 625.00 6250.00

thick Factory made door

frame of PVC extruded

sections in wooden

texture

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	1250.00	
Total Composite rate		811.20	811

Sq.m. Item No. 16-98-1

30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size. 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.

Detail of cost for 2.38 Sq.m.

1. Labour

Carpenter	3.20	Hrs	@	125.00	400.00	
Labourer	3.20	Hrs	@	87.50	280.00	
Total					680.00	
Contractor's profit & overhead				20%	136.00	
Total Labour rate					342.86	343

2. Material

30 mm thick Factory made PVC shutters	2.38	sft	@	5500.00	13090.00	
Contractor's profit & overhead				20%	2618.00	
Total Composite rate					6942.86	6,943

Sq.m. Item No. 16-99-1

Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.

Detail of cost for 2.38 Sq.m.

1. Labour

Carpenter	3.20	Hrs	@	125.00	400.00	
Labourer	3.20	Hrs	@	87.50	280.00	
Total					680.00	
Contractor's profit & overhead				20%	136.00	
Total Labour rate					342.86	343

2. Material

37 mm thick Factory made PVC shutters	2.38	sft	@	6500.00	15470.00	
Contractor's profit & overhead				20%	3094.00	
Total Composite rate					8142.86	8,143

Sq.m. Item No. 16-100-1

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Providing and fixing factory made uPVC fixed or openable glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately).

Detail of cost for 3.35 Sq.m.

1. Labour

Carpenter	9.60	Hrs	@	125.00	1200.00	
Labourer	9.60	Hrs	@	87.50	840.00	
Total					2040.00	
Contractor's profit & overhead				20%	408.00	
Total Labour rate					730.75	731

2. Material

PVC Window 1.6 mm	3.35	sft	@	6500.00	21775.00	
Contractor's profit & overhead				20%	4355.00	
Total Composite rate					8530.75	8,531

Item No. 16-101

Providing and fixing First class wood dolly Chowkat of required size for door using 2.5' x 2.5' vertical wooden plank at ends and horizontal plants at 1 ft apart for supports including 3/4" thick Panelling

Sq.m a) Deodar wood frame and panelling

Detail of Cost for 13.50 sft.

Quantity of frame only	18x2.5x2.5x2/144	1.56	Cu.ft.			
	19 x 2.5" x 2.5" x 0.75"/144	0.62	Cu.ft.			
Quantity of panelling only	3/4*9"x(7'+7'+4')/144	0.84	Cu.ft.			
Wastage	20%	0.60	Cu.ft.			
		3.63	Cu.ft.			
1. Labour						
Carpenter	4.00	Hrs	@	125.00	500.00	
Labourer	1.50	Hrs	@	87.50	131.25	
Total					631.25	
Contractor's profit & overhead				20%	126.25	
Total Labour rate					603.76	604
2. Materials						
Wood - deodar 1st class	3.63	Cu.ft.	@	5000.00	18150.00	
Sawing charges	1.95	Cu.ft.	@	87.50	170.63	
Glue	0.05	Kg.	@	160.00	8.00	
					18328.63	
Contractor's profit & overhead				20%	3665.73	
Total Composite rate					18134.07	18,134

Sq.m b) Shisham wood frame and panelling

1. Labour

Carpenter	4.00	Hrs	@	125.00	500.00	
Labourer	1.50	Hrs	@	87.50	131.25	
Total					631.25	
Contractor's profit & overhead				20%	126.25	
Total Labour rate					603.76	604

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Materials				
	Wood - Shisham	3.63	Cu.ft. @ 2000.00	7260.00
	Sawing charges	1.95	Cu.ft. @ 87.50	170.63
	Glue	0.05	Kg. @ 160.00	8.00
				<u>7438.63</u>
	Contractor's profit & overhead		20%	1487.73
	Total Composite rate			<u>7718.39</u>
				7,718
Sq.m c) Kail wood frame and panelling				
1. Labour				
	Carpenter	4.00	Hrs @ 125.00	500.00
	Labourer	1.50	Hrs @ 87.50	131.25
	Total			<u>631.25</u>
	Contractor's profit & overhead		20%	126.25
	Total Labour rate			<u>603.76</u>
				604
2. Materials				
	Wood - Kail 1st class	3.63	Cu.ft. @ 3500.00	12705.00
	Sawing charges	1.95	Cu.ft. @ 87.50	170.63
	Glue	0.05	Kg. @ 160.00	8.00
				<u>12883.63</u>
	Contractor's profit & overhead		20%	2576.73
	Total Composite rate			<u>12926.23</u>
				12,926
Sq.m d) Kail wood frame and 1/2" Thick MDF panelling				
Detail of Cost for 13.50 sft. Taking a penelled door 4' x 7'				
Quantity of frame only	18x2.5x2.5x2/144	1.56	Cu.ft.	
	19 x 2.5" x 2.5" x 0.75'/144	0.62	Cu.ft.	
Wastage	20%	<u>0.60</u>	Cu.ft.	
		2.79	Cu.ft.	
Quantity of panelling only	3/4*9"x(7'+7'+4')/144	0.84	Cu.ft.	
1. Labour				
	Carpenter	3.00	Hrs @ 125.00	375.00
	Labourer	1.00	Hrs @ 87.50	87.50
	Total			<u>462.50</u>
	Contractor's profit & overhead		20%	92.50
	Total Labour rate			<u>442.36</u>
				442
2. Materials				
	Wood - Kail 1st class	2.79	Cu.ft. @ 3500.00	9765.00
	1/2" MDF Board (Local) without lamination	18.50	Sft @ 45.00	832.50
	Sawing charges	1.95	Cu.ft. @ 87.50	170.63
	Glue	0.05	Kg. @ 160.00	8.00
				<u>10776.13</u>
	Contractor's profit & overhead		20%	2155.23
	Total Composite rate			<u>10749.12</u>
				10,749

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No.17-1-1

Sq.m. Painting two or more coats as per manufacturer's instructions with wood preservative paint (solignum and/or creosote or equivalent) of any approved manufacturer in basement and ground floor

Detail of cost for 10 Sq.m.

1. Labour

Labourer	6.00	Hrs	@	87.50	525.00
Contractor's profit & overhead				20%	105.00
Total Labour rate					<u>63.00</u>

63.00

2. Material

Paint solignum	1.65	Litre	@	325.00	536.25
Painting brush 2"	0.10	No.	@	110.00	11.00
					<u>547.25</u>

3. Scaffolding and sundries				5%	53.61
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Total 2 & 3					<u>600.86</u>
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Contractor's profit & overhead				20%	120.17
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Total Composite rate					<u>135.10</u>
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135.10**Item No.17-2-1**

Sq.m. Painting two coats with coal-tar on wood work, plastered, rendered or concrete surface in ground floor or basement.

Detail of cost for 10 Sq.m.

1. Labour

Labourer	8.00	Hrs	@	87.50	700.00
Contractor's profit & overhead				20%	140.00
Total Labour rate					<u>84.00</u>

84.00

2. Material

Cloth woolen	4.00	Sq.ft.	@	36.00	144.00
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Lime	1.00	Sq.ft.	@	7.70	7.70
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Oil kerosine	0.60	Litre	@	88.00	52.80
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Painting brush 2"	0.10	No.	@	110.00	11.00
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Fuel wood				5%	10.78
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					<u>226.28</u>
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3. Scaffolding and sundries				5%	46.31
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Total 2 & 3					<u>272.59</u>
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Contractor's profit & overhead				20%	54.52
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Total Composite rate					<u>116.71</u>
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116.70**Item No. 17-3-1**

Sq.m. Painting with paint mixed at site using ingredients and pigment to produce required texture and shade in two or more coats on wood work over and including the cost of priming coat, surface preparation, rubbing down smooth, knotted, filling cracks, holes and joints in ground floor or basement.

Detail of cost for 10 Sq.m.

1. Labour

Surface preparation:

Painter	2.25	Hrs	@	125.00	281.25
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Helper	2.25	Hrs	@	75.00	168.75
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					<u>450.00</u>
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Priming coat:

Painter	1.50	Hrs	@	125.00	187.50
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Helper	1.50	Hrs	@	75.00	112.50
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					<u>300.00</u>
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Finishing coat:

Painter	3.75	Hrs	@	125.00	468.75
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Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Helper	3.75	Hrs	@ 75.00	281.25	
					<u>750.00</u>	
	Total				1,500.00	
	Contractor's profit & overhead			20%	300.00	
	Total Labour rate				<u>180.00</u>	180.00
	2. Material					
	Surface preparation:					
	Sand paper	6.00	No.	@ 20.00	120.00	
	Oil putty	0.50	Kg.	@ 90.00	45.00	
					<u>165.00</u>	
	Priming coat inside:					
	White lead	0.60	Kg.	@ 250.00	150.00	
	Chalk	1.00	Kg.	@ 10.00	10.00	
	Patent drier	0.12	Gram	@ 33.00	3.96	
	Oil linseed boiled	0.60	Litre	@ 92.00	55.20	
					<u>219.16</u>	
	Outside:					
	White lead	0.60	Kg.	@ 250.00	150.00	
	Oil linseed raw	0.30	Litre	@ 90.00	27.00	
	Patent drier	0.06	Gram	@ 33.00	1.98	
	Red lead			2.5%	3.75	
					<u>182.73</u>	
	Total priming coat coat				401.89	
	Average cost for priming coat	401.89 / 2			<u>200.95</u>	
	Finishing coat:					
	Paint (mixed at site)	1.85	Litres	@ 299.00	553.15	
	Painting brush 4"	0.10	No.	@ 350.00	35.00	
	Sand paper	3.00	No.	@ 20.00	60.00	
					<u>648.15</u>	
	Total material				1,014.10	
	3. Scaffolding and sundries			5%	125.70	
	Total 2 & 3				<u>1,139.80</u>	
	Contractor's profit & overhead			20%	227.96	
	Total Composite rate				<u>316.78</u>	316.80

Item No. 17-4-1

Sq.m. Painting with paint mixed at site using ingredients and pigment to produce required texture and shade in two or more coats on plastered, rendered and/or concrete surface over and including the cost of priming coat, surface preparation, dusting, rubbing down smooth, filling cracks, holes removing blisters & other blisters & other imperfections in ground floor or basement.

Detail of cost for 10 Sq.m.

1. Labour

Surface preparation:

Painter	2.50	Hrs	@ 125.00	312.50
Helper	2.50	Hrs	@ 75.00	187.50

Priming Coat:

Painter	1.50	Hrs	@ 125.00	187.50
Helper	1.50	Hrs	@ 75.00	112.50

Finishing coat:

Painter	4.00	Hrs	@ 125.00	500.00
Helper	4.00	Hrs	@ 75.00	300.00

Total

				<u>1,600.00</u>
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Contractor's profit & overhead

			20%	320.00
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Total Labour rate

				<u>192.00</u>
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2. Material

Surface Preparation:

Sand paper	6.00	No.	@ 20.00	120.00
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Chalk	1.00	Kg. @ 10.00	10.00
				<u>130.00</u>
	Priming coat:			
	White lead	0.50	Kg. @ 240.00	120.00
	Red lead	0.50	Kg. @ 220.00	110.00
	Oil linseed boiled	0.60	Litre @ 92.00	55.20
				<u>285.20</u>
	Finishing coat:			
	Paint (mixed at site)	1.85	Litres @ 299.00	553.15
	Painting brush 4"	0.10	No. @ 350.00	35.00
	Sand paper	3.00	No. @ 20.00	60.00
				<u>648.15</u>
	Total material			1,063.35
	3. Scaffolding and sundries		5%	133.17
	Total 2 & 3			<u>1,196.52</u>
	Contractor's profit & overhead		20%	239.30
	Total Composite rate			<u>335.58</u>
				335.60

Item No. 17-5-1

Sq.m. Painting with paint mixed at site using ingredients and pigment to produce required texture and shade in two or more coats on steel and iron work and including the cost of priming coat, surface preparation, removing rust, scales and dust with wire brush in ground floor or basement.

Detail of cost for 10 Sq.m.

1. Labour

Surface preparation:

Painter	2.00	Hrs	@ 125.00	250.00
Helper	2.00	Hrs	@ 75.00	150.00
				<u>400.00</u>

Priming Coat:

Painter	1.50	Hrs	@ 125.00	187.50
Helper	1.50	Hrs	@ 75.00	112.50
				<u>300.00</u>

Finishing Coat:

Painter	3.50	Hrs	@ 125.00	437.50
Helper	3.50	Hrs	@ 75.00	262.50
				<u>700.00</u>

Total

Contractor's profit & overhead

Total Labour rate

1,400.00

20% 280.00

168.00

168.00

2. Material

Surface Preparation:

Sand paper	6.00	No.	@ 20.00	120.00
Wire brush	1.00	No.	@ 50.00	50.00
				<u>170.00</u>

Priming Coat:

Red lead	1.00	Kg.	@ 220.00	220.00
Patent drier	0.10	Gram	@ 33.00	3.30
Oil linseed boiled	0.80	Litre	@ 92.00	73.60
				<u>296.90</u>

Finishing coat:

Paint (mixed at site)	1.25	Litres	@ 299.00	373.75
Painting brush 4"	0.05	No.	@ 350.00	17.50
Sand paper	3.00	No.	@ 20.00	60.00
				<u>451.25</u>

Total material

3. Scaffolding and sundries

Total 2 & 3

918.15

5% 115.91

1,034.06

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Contractor's profit & overhead	20%	206.81
	Total Composite rate		292.09
			292.10
	Item No. 17-6-1		
Sq.m.	Painting with ICI/Berger or equivalent super gloss synthetic enamel paint in two or more coats as per manufacturer's instructions on wood work over and including the cost of priming coat, surface preparation, rubbing down smooth, knotted, filling cracks, holes and joints in ground floor or basement. (@ atleast 1.65 Litre per 10 Sq.m)		
	Detail of cost for 10 Sq.m.		
	1. Labour	Same as in item 17-3-1	180.00
			180.00
	2. Material		
	Surface preparation:	Same as in item 17-3-1	165.00
	Priming coat:	Same as in item 17-3-1	200.95
	Finishing coat:		
	Paint synthetic enamel	1.65 Litre @ 325.00	536.25
	Oil turpentine	0.40 kg. @ 105.00	42.00
	Painting brush 4"	0.05 No. @ 350.00	17.50
	Sand paper	3.00 No. @ 20.00	60.00
			655.75
	Total material		1,021.70
	Water charges	1.5%	15.33
			1,037.02
	3. Scaffolding and sundries	5%	51.85
	Total 2 & 3		1,088.87
	Contractor's profit & overhead	20%	217.77
	Total Composite rate		310.66
			310.65
	Item No. 17-7-1		
Sq.m.	Painting with ICI/Berger or equivalent super gloss synthetic enamel paint in two or more coats as per manufacturer's instructions on steel and iron work over and including the cost of priming coat, surface preparation, removing rust, scales and dust with wire brush in ground floor or basement. (@ atleast 1.25Litre per 10 Sq.m)		
	Detail of cost for 10 Sq.m.		
	1. Labour	Same as in item 17-5-1	168.00
			168.00
	2. Material		
	Surface preparation:	Same as in item 17-5-1	170.00
	Priming coat:	Same as in item 17-5-1	296.90
	Finishing Coat:		
	Paint synthetic enamel	1.25 Litre @ 325.00	406.25
	Oil turpentine	0.30 kg. @ 105.00	31.50
	Painting brush 4"	0.05 No. @ 350.00	17.50
	Sand paper	3.00 No. @ 20.00	60.00
			515.25
	Total material		982.15
	Water charges	1.5%	14.73
			996.88
	3. Scaffolding and sundries	5%	49.84
	Total 2 & 3		1,046.73
	Contractor's profit & overhead	20%	209.35
	Total Composite rate		293.61
			293.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 17-8-1

Sq.m. **Painting with ICI/Berger or equivalent plastic emulsion paint of approved shade in two or more coats as per manufacturer's instructions on plastered rendered and/or concrete surface over and including the cost of priming coat, surface preparation, dusting, rubbing down smooth, filling cracks, holes removing blisters and other blisters and other imperfections in ground floor or basement. (@ atleast 1.65 Litre per 10 Sq.m)**

Detail of cost for 10 Sq.m.

1. Labour	Same as in item 17-4-1			192.00	192.00
2. Material					
Surface preparation:	Same as in item 17-4-1			130.00	
Priming coat:	Same as in item 17-4-1			285.20	
Finishing Coat:					
Paint - Plastic emulsion	1.65	Litre	@ 420.00	693.00	
Painting brush 4"	0.04	No.	@ 350.00	14.00	
Sand paper	3.00	No.	@ 20.00	60.00	
				<u>767.00</u>	
Total material				1,182.20	
Water charges		1.5%		<u>17.73</u>	
				1,199.93	
3. Scaffolding and sundries			5%	<u>60.00</u>	
Total 2 & 3				1,259.93	
Contractor's profit & overhead			20%	<u>251.99</u>	
Total Composite rate				343.19	343.20

Item No. 17-9-1

Sq.m. **Painting with ICI/Berger or equivalent Aluminium paint in two or more coats as per manufacturer's instructions on steel and iron work over and including the cost of priming coat, surface preparation, removing rust, scales and dust with wire brush in ground floor or basement. (@ atleast 1.25 Litre per 10 Sq.m)**

Detail of cost for 10 Sq.m.

1. Labour					
Surface preparation:					
Painter	2.00	Hrs	@ 125.00	250.00	
Helper	2.00	Hrs	@ 75.00	150.00	
Priming coat:					
Painter	1.25	Hrs	@ 125.00	156.25	
Helper	1.25	Hrs	@ 75.00	93.75	
Finishing coat:					
Painter	3.25	Hrs	@ 125.00	406.25	
Helper	3.25	Hrs	@ 75.00	<u>243.75</u>	
Total				1,300.00	
Contractor's profit & overhead			20%	<u>260.00</u>	
Total Labour rate				156.00	156.00
2. Material					
Surface preparation:	Same as in item 17-5-1			170.00	
Priming coat:	Same as in item 17-5-1			296.90	
Finishing Coat:					
Paint - Aluminium	1.25	Litre	@ 310.00	387.50	
Wire brush	1.00	No.	@ 50.00	50.00	
Painting brush 4"	0.04	No.	@ 350.00	<u>14.00</u>	
				451.50	
Total material				918.40	
Water charges		1.5%		<u>13.78</u>	
				932.18	
3. Scaffolding and sundries			5%	<u>46.61</u>	
Total 2 & 3				978.78	
Contractor's profit & overhead			20%	<u>195.76</u>	
Total Composite rate				273.45	273.45

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 17-10-1

Sq.m. Painting with black bituminous or black japan paint in two or more coats as per manufacturer's instructions on steel and iron work over and including the cost of priming coat, surface preparation, removing rust, scales and dust with wire brush in ground floor or basement. (@ atleast 1.65 Litre per 10 Sq.m)

Detail of cost for 10 Sq.m.

1. Labour							
Same as in item 17-9-1					156.00		156.00
2. Material							
Surface preparation:	Same as in item 17-5-1				170.00		
Painting							
Paint black bituminous	1.65	Litre	@	200.00	330.00		
Wire brush	1.00	No.	@	50.00	50.00		
Painting brush 4"	0.05	No.	@	350.00	17.50		
					397.50		
Total material					567.50		
Water charges				1.5%	8.51		
					576.01		
3. Scaffolding and sundries				5%	28.80		
Total 2 & 3					604.81		
Contractor's profit & overhead				20%	120.96		
Total Composite rate					228.58		228.60

Item No.17-11-1

Sq.m. Painting with anti corrosive composition black bitumastic paint in two or more coats as per manufacturer's instructions on steel and iron work over and including the cost of priming coat, surface preparation, removing rust, scales and dust with wire brush in ground floor or basement. (@ atleast 1.65 Litre per 10 Sq.m)

Detail of cost for 10 Sq.m.

1. Labour							
Same as in item 17-9-1					156.00		156.00
2. Material							
Surface preparation:	Same as in item 17-5-1				170.00		
Painting							
Paint - Anti corrosive	1.65	Litre	@	175.00	288.75		
Wire brush	1.00	No.	@	50.00	50.00		
Painting brush 4"	0.05	No.	@	350.00	17.50		
					356.25		
Total material					526.25		
Water charges				1.5%	7.89		
					534.14		
3. Scaffolding and sundries				5%	26.71		
Total 2 & 3					560.85		
Contractor's profit & overhead				20%	112.17		
Total Composite rate					223.30		223.30

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No.17-12-1

Sq.m. Painting by spray machine ICI/Berger or equivalent super gloss synthetic enamel paint in two or more coats as per manufacturer's instructions on wood work over and including the cost of priming coat, surface preparation, rubbing down smooth, knotted, filling cracks, holes and joints in ground floor or basement. (@ atleast 1.25 Litre per 10 Sq.m)

Detail of cost for 10 Sq.m.

1. Labour

Surface preparation:	Same as in item 17-3-1				450.00
Priming coat:	Same as in item 17-3-1				300.00
Finishing coat:					
Helper		3.75	Hrs @	75.00	281.25
Total					1,031.25
Contractor's profit & overhead				20%	206.25
Total Labour rate					123.75

123.75

2. Material

Surface preparation:	Same as in item 17-3-1				165.00
Priming coat:	Same as in item 17-3-1				200.95
Finishing coat:					
Paint synthetic enamel	wastage @ 25% included	2.06	Litre @	325.00	669.50
Oil turpentine	1/4 th of quantity of paint	0.52	kg. @	105.00	54.60
Oil Petrol	1/4 th of quantity of paint	0.52	Litre @	88.00	45.76
Painting brush 4"		0.03	No. @	350.00	10.50
Sand paper		3.00	No. @	20.00	60.00
					1,206.31
Water charges				1.5%	18.09
					1,224.40

3. Plant and equipment

Working capacity of spray machine/day/coat =	240.00	Sq.m.			
For three coats	240 / 3	80.00	Sq.m.		
Time required for 10 Sq.m. = 10/80 x 8	1.00	Hrs.			
Spray man	1.00	Hrs @	125.00		125.00
4. Scaffolding and sundries				5%	119.03
Total 2, 3 & 4					1,468.43
Contractor's profit & overhead				20%	293.69
Total Composite rate					299.96

299.95

Item No.17-13-1

Sq.m. Painting by spray machine ICI/Berger or equivalent super gloss synthetic enamel paint in two or more coats as per manufacturer's instructions on steel and iron work over and including the cost of priming coat, surface preparation, removing rust, scales and dust with wire brush in ground floor or basement. (@ atleast 1.56 Litre per 10 Sq.m)

Detail of cost for 10 Sq.m.

1. Labour

Surface preparation:	Same as in item 17-5-1				400.00
Priming coat:	Same as in item 17-5-1				300.00
Finishing coat:					
Helper		3.75	Hrs @	75.00	281.25
Total					981.25
Contractor's profit & overhead				20%	196.25
Total Labour rate					117.75

117.75

2. Material

Surface preparation:	Same as in item 17-5-1				170.00
Priming coat:	Same as in item 17-5-1				296.90

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Finishing coat:			
	Paint synthetic enamel wastage @ 25% included	1.56	Litre @	325.00
	Oil turpentine 1/4 th of quantity of paint	0.39	kg. @	105.00
	Oil Petrol 1/4 th of quantity of paint	0.39	Litre @	88.00
	Painting brush 4"	0.03	No. @	350.00
	Sand paper	3.00	No. @	20.00
				60.00
				1,119.67
	Water charges		1.5%	16.80
				1,136.47
	3. Plant and equipment			
	Spray man	1.00	Hrs @	125.00
	4. Scaffolding and sundries		5%	112.14
	Total 2, 3 & 4			1,373.60
	Contractor's profit & overhead		20%	274.72
	Total Composite rate			282.58
				282.60

Item No. 17-14-1

Sq.m. Painting with acid or alkali resisting paint of approved shade and make in two or more coats as per manufacturer's instructions on wood work, plastered rendered and or concrete surface over and including the cost of priming coat, surface preparation, rubbing down smooth, cleaning and rubbing in ground floor or basement. (@ atleast 2.45 Litre per 10 Sq.m)

Detail of cost for 10 Sq.m.

1. Labour	Same as in item 17-3-1				180.00	180.00
2. Material						
Surface preparation:	Same as in item 17-3-1				165.00	
Priming and finishing coat:						
Paint - Alkali resisting	including paint for priming	2.45	Litre @	200.00	490.00	
Painting brush 4"		0.03	No. @	350.00	10.50	
Sand paper		5.00	No. @	20.00	100.00	
					765.50	
Water charges			1.5%		11.48	
					776.98	
3. Scaffolding and sundries			5%		47.85	
Total 2 & 3					824.83	
Contractor's profit & overhead			20%		164.97	
Total Composite rate					278.98	279.00

Item No. 17-15

Applying french or spirit polish of approved make on wood work in ground floor or basement

Detail of cost for 10 Sq.m.

Sq.m. a) One coat (@ atleast 2.25 Litre per 10 Sq.m)

1. Labour						
Polisher	12.00	Hrs @	110.00		1,320.00	
Helper	15.00	Hrs @	75.00		1,125.00	
Total					2,445.00	
Contractor's profit & overhead			20%		489.00	
Total Labour rate					293.40	293.40
2. Material						
For filling:						
Chalk	2.50	Kg. @	10.00		25.00	
Methylated spirit	2.25	Litre @	65.00		146.25	
Sand paper	6.00	No. @	20.00		120.00	
					291.25	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	For Finishing:			
	Polish french	1.00	Litre @ 115.00	115.00
	Oil linseed raw	0.25	Litre @ 90.00	22.50
	Lock Grains	2.00	Kg. @ 90.00	180.00
				317.50
	Total			608.75
	3. Sundries		2.5%	76.34
	Total of 2 & 3			685.09
	Contractor's profit & overhead		20%	137.02
	Total Composite rate			375.61
				375.60
Sq.m.	b) Two coats (@ atleast 1.65 Litre per 10 Sq.m)			
	1. Labour			
	Polisher	15.00	Hrs @ 110.00	1,650.00
	Helper	18.00	Hrs @ 75.00	1,350.00
	Total			3,000.00
	Contractor's profit & overhead		20%	600.00
	Total Labour rate			360.00
				360.00
	2. Material			
	For filling: Same as in item 17-14(a)			291.25
	For Finishing:			
	Polish french	1.65	Litre @ 115.00	189.75
	Oil linseed raw	0.40	Litre @ 90.00	36.00
	Lock Grains	2.30	Kg. @ 90.00	207.00
				432.75
	Total			724.00
	3. Sundries		2.5%	93.10
	Total of 2 & 3			817.10
	Contractor's profit & overhead		20%	163.42
	Total Composite rate			458.05
				458.05
	Item No. 17-16-1			
Sq.m.	Applying two coats of ICI or equivalent synthetic varnish on wood work including cleaning in ground floor or basement (@ atleast 1.65 Litre per 10 Sq.m)			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Painter	5.00	Hrs @ 125.00	625.00
	Contractor's profit & overhead		20%	125.00
	Total Labour rate			75.00
				75.00
	2. Material			
	ICI Varnish synthetic	1.65	Liter @ 2500.00	4,125.00
	Painting brush 4"	0.05	No. @ 350.00	17.50
	Oil linseed boiled	1.65	Litre @ 92.00	151.80
	Sand paper	4.00	No. @ 20.00	80.00
				4,374.30
	3. Sundries		2.5%	124.98
	Total of 2 & 3			4,499.28
	Contractor's profit & overhead		20%	899.86
	Total Composite rate			614.91
				614.90
	Item No. 17-17-1			
Sq.m.	Applying two coats of synthetic clear varnish of an approved manufacturer on wood work including cleaning in ground floor or basement (@ atleast 1.65 Litre per 10 Sq.m)			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Total Labour rate	Same as in item 17-16-1		75.00
				75.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	Varnish synthetic clear	1.65	Liter @ 3500.00	5,775.00
	Painting brush 4"	0.05	No. @ 350.00	17.50
	Oil linseed boiled	1.65	Litre @ 92.00	151.80
	Sand paper	4.00	No. @ 20.00	80.00
				<u>6,024.30</u>
	3. Sundries		2.5%	152.48
	Total of 2 & 3			<u>6,176.78</u>
	Contractor's profit & overhead		20%	1,235.36
	Total Composite rate			<u>816.21</u>
				816.20

Item No. 17-18-1

Sq.m. Applying bee wax of an approved make on wood work including cleaning in ground floor or basement

Detail of cost for 10 Sq.m.

1. Labour

Polisher	8.00	Hrs @ 110.00	880.00
Helper	8.00	Hrs @ 75.00	600.00
Total			<u>1,480.00</u>
Contractor's profit & overhead		20%	296.00
Total Labour rate			<u>177.60</u>

177.60

2. Material

Polish bee wax	0.25	Litre @ 425.00	106.25
Oil turpentine	1.65	kg. @ 105.00	173.25
Sand paper	6.00	No. @ 20.00	120.00
Total			<u>399.50</u>
3. Sundries		2.5%	46.99
Total of 2 & 3			<u>446.49</u>
Contractor's profit & overhead		20%	89.30
Total Composite rate			<u>231.18</u>

231.20**Item No. 17-19**

Sq.m. Applying ICI/Berger or equivalent aluminium paint in two or more coats as per manufacturer's instructions on pipes including specials over and including the cost of red oxide priming coat, surface preparation, removing dust, scales and dust with wire brush in ground floor or basement.

The circumferential area of different size of pipes for 1 m. length.

Area common factor = $3.28 \times 1/10.76 = 0.958$

Nominal size	Circumferential area	Area
inch mm		
0.50 15	0.958 x 20.30 /304.80	0.06
0.75 20	0.958 x 24.30 /304.80	0.08
1.00 25	0.958 x 31.50 /304.80	0.10
1.25 32	0.958 x 38.50 /304.80	0.12
1.50 40	0.958 x 46.50 /304.80	0.15
2.00 50	0.958 x 57.30 /304.80	0.18
2.50 65	0.958 x 72.30 /304.80	0.23
3.00 80	0.958 x 88.10 /304.80	0.28
4.00 100	0.958 x 109.3 /304.80	0.34
5.00 125	0.958 x 135.3 /304.80	0.42
6.00 150	0.958 x 161.0 /304.80	0.51

Sq.m. Total Labour rate As in item 17-9-1 156.00

Sq.m. Total Composite rate As in item 17-9-1 273.45

R.M. a) 1/2" (15 mm) nominal size of pipe

Labour rate per R.M. 0.06 Sq.m. @ 156.00 9.95

9.95

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Composite rate per R.M.	0.06	Sq.m.	@ 273.45	17.44	17.45
R.M.	b) 3/4" (20 mm) nominal size of pipe					
	Labour rate per R.M.	0.08	Sq.m.	@ 156.00	11.91	11.90
	Composite rate per R.M.	0.08	Sq.m.	@ 273.45	20.88	20.90
R.M.	c) 1" (25 mm) nominal size of pipe					
	Labour rate per R.M.	0.10	Sq.m.	@ 156.00	15.44	15.45
	Composite rate per R.M.	0.10	Sq.m.	@ 273.45	27.06	27.05
R.M.	d) 1-1/4" (32 mm) nominal size of pipe					
	Labour rate per R.M.	0.12	Sq.m.	@ 156.00	18.87	18.85
	Composite rate per R.M.	0.12	Sq.m.	@ 273.45	33.08	33.10
R.M.	e) 1-1/2" (40 mm) nominal size of pipe					
	Labour rate per R.M.	0.15	Sq.m.	@ 156.00	22.79	22.80
	Composite rate per R.M.	0.15	Sq.m.	@ 273.45	39.95	39.95
R.M.	f) 2" (50 mm) nominal size of pipe					
	Labour rate per R.M.	0.18	Sq.m.	@ 156.00	28.09	28.10
	Composite rate per R.M.	0.18	Sq.m.	@ 273.45	49.23	49.25
R.M.	g) 2-1/2" (65 mm) nominal size of pipe					
	Labour rate per R.M.	0.23	Sq.m.	@ 156.00	35.44	35.45
	Composite rate per R.M.	0.23	Sq.m.	@ 273.45	62.12	62.10
R.M.	h) 3" (75 mm) nominal size of pipe					
	Labour rate per R.M.	0.28	Sq.m.	@ 156.00	43.18	43.20
	Composite rate per R.M.	0.28	Sq.m.	@ 273.45	75.70	75.70
R.M.	i) 4" (100 mm) nominal size of pipe					
	Labour rate per R.M.	0.34	Sq.m.	@ 156.00	53.43	53.45
	Composite rate per R.M.	0.34	Sq.m.	@ 273.45	93.65	93.65
R.M.	j) 5" (125 mm) nominal size of pipe					
	Labour rate per R.M.	0.42	Sq.m.	@ 156.00	66.17	66.15
	Composite rate per R.M.	0.42	Sq.m.	@ 273.45	115.99	116.00
R.M.	k) 6" (150 mm) nominal size of pipe					
	Labour rate per R.M.	0.51	Sq.m.	@ 156.00	78.92	78.90
	Composite rate per R.M.	0.51	Sq.m.	@ 273.45	138.33	138.35

Item No. 17-20

Applying red oxide paint in two/three coats as per manufacturer's instructions on steel and iron work including removing rust, scales and dust with wire brush in ground floor or basement.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)

Detail of cost for 10 Sq.m.

Sq.m. a) Two coats (@ atleast 1.25 Litre per 10 Sq.m)

1. Labour				
Painter	2.50	Hrs	@ 125.00	312.50
Helper	2.00	Hrs	@ 75.00	150.00
Total				462.50
Contractor's profit & overhead			20%	92.50
Total Labour rate				55.50
2. Material				
Paint red oxide	1.25	Litre	@ 201.50	251.88
Painting brush 4"	0.05	No.	@ 350.00	17.50
Wire brush	1.00	No.	@ 50.00	50.00
Sand paper	1.00	No.	@ 20.00	20.00
				339.38
3. Sundries			2.5%	20.05
Total of 2 & 3				359.42
Contractor's profit & overhead			20%	71.88
Total Composite rate				98.63

98.65**Sq.m. b) Three coats (@ atleast 2.0 Litre per 10 Sq.m)**

1. Labour				
Painter	3.50	Hrs	@ 125.00	437.50
Helper	3.00	Hrs	@ 75.00	225.00
Total				662.50
Contractor's profit & overhead			20%	87.50
Total Labour rate				75.00
2. Material				
Paint red oxide	2.00	Litre	@ 201.50	403.00
Painting brush 4"	0.05	No.	@ 350.00	17.50
Wire brush	1.00	No.	@ 50.00	50.00
Sand paper	1.00	No.	@ 20.00	20.00
				490.50
3. Sundries			2.5%	28.83
Total of 2 & 3				519.33
Contractor's profit & overhead			20%	103.87
Total Composite rate				137.32

137.30**Item No. 17-21****Lettering and figuring of any language on any surface with black Japan paint or similar of approved quality in ground floor or basement**

Detail of cost for 100 letters

Each a) Upto 2.5" (64 mm) size

letter				
1. Labour				
Painter	8.00	Hrs	@ 125.00	1,000.00
Helper	8.00	Hrs	@ 75.00	600.00
Total				1,600.00
Contractor's profit & overhead			20%	320.00
Total Labour rate				19.20
2. Material				
Paint black japan	0.15	Litre	@ 350.00	52.50
Painting brush 4"			33%	17.33
				69.83
3. Sundries			2.5%	41.75
Total of 2 & 3				111.57
Contractor's profit & overhead			20%	22.31
Total Composite rate				20.54

20.55**Each b) Above 2.5" (64 mm) upto 6" (150 mm) size**

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
letter	1. Labour			
	Painter	12.00	Hrs @ 125.00	1,500.00
	Helper	12.00	Hrs @ 75.00	900.00
	Total			<u>2,400.00</u>
	Contractor's profit & overhead		20%	480.00
	Total Labour rate			<u>28.80</u>
				28.80
	2. Material			
	Paint black japan	0.25	Litre @ 350.00	87.50
	Painting brush 4"		33%	28.88
			<u>116.38</u>	
3. Sundries		2.5%	62.91	
Total of 2 & 3			<u>179.28</u>	
Contractor's profit & overhead		20%	35.86	
Total Composite rate			<u>30.95</u>	
			30.95	
Each c)	Above 6" (150 mm) upto 12" (300 mm) size			
letter	1. Labour			
	Painter	16.00	Hrs @ 125.00	2,000.00
	Helper	16.00	Hrs @ 75.00	1,200.00
	Total			<u>3,200.00</u>
	Contractor's profit & overhead		20%	640.00
	Total Labour rate			<u>38.40</u>
				38.40
	2. Material			
	Paint black japan	0.50	Litre @ 350.00	175.00
	Painting brush 4"		33%	57.75
			<u>232.75</u>	
3. Sundries		2.5%	85.82	
Total of 2 & 3			<u>318.57</u>	
Contractor's profit & overhead		20%	63.71	
Total Composite rate			<u>42.22</u>	
			42.20	
Each d)	Above 12" (300 mm) upto 18" (450 mm) size			
letter	1. Labour			
	Painter	24.00	Hrs @ 125.00	3,000.00
	Helper	24.00	Hrs @ 75.00	1,800.00
	Total			<u>4,800.00</u>
	Contractor's profit & overhead		20%	960.00
	Total Labour rate			<u>57.60</u>
				57.60
	2. Material			
	Paint black japan	1.15	Litre @ 350.00	402.50
	Painting brush 4"		33%	132.83
			<u>535.33</u>	
3. Sundries		2.5%	133.38	
Total of 2 & 3			<u>668.71</u>	
Contractor's profit & overhead		20%	133.74	
Total Composite rate			<u>65.62</u>	
			65.60	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Each e) Above 18" (450 mm) upto 24" (600 mm) size

letter

1. Labour					
Painter	30.00	Hrs	@ 125.00	3,750.00	
Helper	30.00	Hrs	@ 75.00	2,250.00	
Total				6,000.00	
Contractor's profit & overhead			20%	1,200.00	
Total Labour rate				72.00	72.00
2. Material					
Paint black japan	2.20	Litre	@ 350.00	770.00	
Painting brush 4"			33%	254.10	
				1,024.10	
3. Sundries				2.5%	175.60
Total of 2 & 3				1,199.70	
Contractor's profit & overhead			20%	239.94	
Total Composite rate				86.40	86.40

Item No. 17-22-1

Sq.m. Scraping, rubbing and cleaning paints of all sorts, from walls and ceiling including removal of rubbish from the site in ground floor or basement.

Total Labour rate	Same as for item 15-42a	21.00	21.00
Total Composite rate	Same as for item 15-42a	22.05	22.05

Item No. 17-23-1

Sq.m. Removing stains from wood work by scraping on applying any approved chemical including removal of rubbish from the site in ground floor or basement.

Detail of cost for 10 Sq.m.

1. Labour					
Labourer	3.00	Hrs	@ 87.50	262.50	
Contractor's profit & overhead			20%	52.50	
Total Labour rate				31.50	31.50
2. Material					
Caustic soda	0.10	Kg.	@ 70.00	7.00	
Sand paper	1.00	No.	@ 20.00	20.00	
Hessian cloth			33%	8.91	
				35.91	
3. Sundries				2.50%	7.46
Total of 2 & 3				43.37	
Contractor's profit & overhead			20%	8.67	
Total Composite rate				36.70	36.70

Item No. 17-24

Sq.m. a) Scraping old paints of all sorts in ground floor or basement with blow lamp from wood, plastered, rendered and/or concrete surface including rubbing, cleaning and removal of rubbish from the site

Detail of cost for 10 Sq.m.

1. Labour					
Painter	1.50	Hrs	@ 125.00	187.50	
Helper	1.50	Hrs	@ 75.00	112.50	
Total				300.00	
Contractor's profit & overhead			20%	60.00	
Total Labour rate				36.00	36.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Material				
Caustic soda	0.10	Kg.	@ 70.00	7.00
Sand paper	1.00	No.	@ 20.00	20.00
Oil kerosine	0.50	Litre	@ 88.00	44.00
Hessian cloth			25%	6.75
				<u>77.75</u>
3. Plant & equipment				
Blow lamp		Hire charges	5%	3.89
4. Sundries				2.5%
				<u>9.54</u>
Total of 2 & 3				91.18
Contractor's profit & overhead				20%
				<u>18.24</u>
Total Composite rate				<u>46.94</u>

46.95

Sq.m. b) Preparation of wooden surface for re-painting in ground floor or basement (after old paint has been removed) including rubbing down smooth, filling cracks, holes and joints.

Detail of cost for 10 Sq.m

1. Labour				
Painter	1.00	Hrs	@ 125.00	125.00
Helper	1.50	Hrs	@ 75.00	112.50
Total				<u>237.50</u>
Contractor's profit & overhead				20%
				<u>47.50</u>
Total Labour rate				<u>28.50</u>

28.50

2. Material				
Sand paper	4.00	No.	@ 20.00	80.00
Oil putty	0.25	Kg.	@ 90.00	22.50
				<u>102.50</u>
3. Sundries				2.5%
Total of 2 & 3				<u>111.00</u>
Contractor's profit & overhead				20%
				<u>22.20</u>
Total Composite rate				<u>41.82</u>

41.80

Item No. 17-25-1

Sq.m. Scraping old paint of all sorts with blow lamp in ground floor or basement from steel and iron work including rubbing, cleaning and removal of rubbish from the site.

Detail of cost for 10 Sq.m.

1. Labour				
Painter	0.75	Hrs	@ 125.00	93.75
Helper	0.75	Hrs	@ 75.00	56.25
Total				<u>150.00</u>
Contractor's profit & overhead				20%
				<u>30.00</u>
Total Labour rate				<u>18.00</u>

18.00

2. Material				
Oil kerosine	0.50	Litre	@ 88.00	44.00
Sand paper	1.00	No.	@ 20.00	20.00
Wire brush	0.20	No.	@ 50.00	10.00
Hessian cloth			15%	11.10
				<u>85.10</u>

3. Plant & equipment				
Blow lamp		Hire charges	5%	4.26
4. Sundries				2.5%
				<u>5.98</u>
Total of 2 & 3				<u>95.34</u>
Contractor's profit & overhead				20%
				<u>19.07</u>
Total Composite rate				<u>29.44</u>

29.45

Item No. 17-26-1

Sq.m. Removing all sorts of varnish and polishes without blow lamp in ground floor or

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

basement from wooden surface including removal of rubbish from the site.

Detail of cost for 10 Sq.m.

1. Labour

Painter	0.50	Hrs	@	125.00	62.50	
Helper	0.50	Hrs	@	75.00	37.50	
Total					100.00	
Contractor's profit & overhead				20%	20.00	
Total Labour rate					12.00	12.00

2. Material

Caustic soda	0.15	Kg.	@	70.00	10.50	
Sand paper	1.00	No.	@	20.00	20.00	
Hessian cloth				10%	3.05	
					33.55	

3. Sundries

Total of 2 & 3				2.5%	1.64	
Contractor's profit & overhead				20%	7.04	
Total Composite rate					16.22	16.20

Item No.17-27**Painting old surface with solignum and or creosote paint on wood work in ground floor or basement including cleaning.**

Detail of cost for 10 Sq.m.

Sq.m a) One coat**1. Labour**

Labourer	2.00	Hrs	@	87.50	175.00	
Contractor's profit & overhead				20%	35.00	
Total Labour rate					21.00	21.00

2. Material

Paint Creosote	0.75	Litre	@	205.00	153.75	
Painting brush 2"	0.03	No.	@	110.00	3.30	
					157.05	

3. Sundries

Total of 2 & 3				2.5%	8.30	
Contractor's profit & overhead				20%	33.07	
Total Composite rate					40.84	40.85

Sq.m b) Two coats**1. Labour**

Labourer	3.50	Hrs	@	87.50	306.25	
Contractor's profit & overhead				20%	61.25	
Total Labour rate					36.75	36.75

2. Material

Paint Creosote	1.25	Litre	@	205.00	256.25	
Painting brush 2"	0.05	No.	@	110.00	5.50	
					261.75	

3. Sundries

Total of 2 & 3				2.5%	14.20	
Contractor's profit & overhead				20%	55.19	
Total Composite rate					69.86	69.85

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 17-28

Painting old surface with coaltar on wood work, plastered, rendered and or concrete surface in ground floor or basement including cleaning.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour							
Labourer	4.00	Hrs	@	87.50	350.00		
Contractor's profit & overhead				20%	70.00		
Total Labour rate					<u>42.00</u>		42.00
2. Material							
Cloth woolen	0.75	Sq.ft.	@	36.00	27.00		
Oil kerosine	0.25	Litre	@	88.00	22.00		
Painting brush 2"	0.02	No.	@	110.00	2.20		
Fuel wood				10%	5.12		
					<u>56.32</u>		
3. Sundries				2.5%	10.16		
Total of 2 & 3					<u>66.48</u>		
Contractor's profit & overhead				20%	13.30		
Total Composite rate					<u>49.98</u>		50.00

Sq.m b) Two coats

1. Labour							
Labourer	6.00	Hrs	@	87.50	525.00		
Contractor's profit & overhead				20%	105.00		
Total Labour rate					<u>63.00</u>		63.00
2. Material							
Cloth woolen	1.00	Sq.ft.	@	36.00	36.00		
Oil kerosine	0.40	Litre	@	88.00	35.20		
Painting brush 2"	0.03	No.	@	110.00	3.30		
Fuel wood				10%	7.45		
					<u>81.95</u>		
3. Sundries				2.5%	15.17		
Total of 2 & 3					<u>97.12</u>		
Contractor's profit & overhead				20%	19.42		
Total Composite rate					<u>74.65</u>		74.65

Item No. 17-29

Painting old surface in ground floor or basement with paint mixed at site using ingredient and pigment to produce required texture and shade on wood work, plastered, rendered and concrete surface including cleaning and sand papering.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour							
Painter	3.00	Hrs	@	125.00	375.00		
Helper	3.00	Hrs	@	75.00	225.00		
Total					<u>600.00</u>		
Contractor's profit & overhead				20%	120.00		
Total Labour rate					<u>72.00</u>		72.00
2. Material							
Paint (mixed at site)	0.80	Litres	@	299.00	239.20		
Painting brush 2"	0.05	No.	@	110.00	5.50		
Sand paper	1.00	No.	@	20.00	20.00		

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
		264.70	
	3. Sundries	2.5%	21.62
	Total of 2 & 3		286.32
	Contractor's profit & overhead	20%	57.26
	Total Composite rate		106.36
			106.35

Sq.m b) Two coats

1. Labour					
Painter	4.00	Hrs	@ 125.00	500.00	
Helper	4.00	Hrs	@ 75.00	300.00	
Total				800.00	
Contractor's profit & overhead			20%	160.00	
Total Labour rate				96.00	96.00
2. Material					
Paint (mixed at site)	1.65	Litres	@ 299.00	493.35	
Painting brush 2"	0.05	No.	@ 110.00	5.50	
Sand paper	2.00	No.	@ 20.00	40.00	
				538.85	
3. Sundries			2.5%	33.47	
Total of 2 & 3				572.32	
Contractor's profit & overhead			20%	114.46	
Total Composite rate				164.68	164.70

Item No. 17-30

Painting old surface in ground floor or basement with paint mixed at site using ingredient and pigment to produce required texture and shade on steel and iron work including cleaning and sand papering the surface.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour					
Painter	2.00	Hrs	@ 125.00	250.00	
Helper	2.00	Hrs	@ 75.00	150.00	
Total				400.00	
Contractor's profit & overhead			20%	80.00	
Total Labour rate				48.00	48.00
2. Material					
Paint (mixed at site)	0.70	Litres	@ 299.00	209.30	
Painting brush 2"	0.05	No.	@ 110.00	5.50	
Sand paper/ wire brush	1.00	No.	@ 20.00	20.00	
				234.80	
3. Sundries			2.5%	15.87	
Total of 2 & 3				250.67	
Contractor's profit & overhead			20%	50.13	
Total Composite rate				78.08	78.10

Sq.m b) Two coats

1. Labour					
Painter	4.00	Hrs	@ 125.00	500.00	
Helper	4.00	Hrs	@ 75.00	300.00	
Total				800.00	
Contractor's profit & overhead			20%	160.00	
Total Labour rate				96.00	96.00
2. Material					
Paint (mixed at site)	1.65	Litres	@ 299.00	493.35	
Painting brush 2"	0.05	No.	@ 110.00	5.50	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Sand paper/ wire brush	1.50	No. @ 20.00	30.00
				528.85
	3. Sundries		2.5%	33.22
	Total of 2 & 3			562.07
	Contractor's profit & overhead		20%	112.41
	Total Composite rate			163.45
				163.45

Item No. 17-31

Painting old surface in ground floor or basement with ICI/Berger or equivalent super gloss synthetic enamel paint on wood work including cleaning and sand papering the surface.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour	Same as in item 17-29(a)			72.00	72.00
2. Material					
Paint synthetic enamel	0.80	Litre @	325.00	260.00	
Painting brush 2"	0.05	No. @	110.00	5.50	
Sand paper	1.00	No. @	20.00	20.00	
				285.50	
3. Sundries			2.5%	8.94	
Total of 2 & 3				294.44	
Contractor's profit & overhead			20%	58.89	
Total Composite rate				107.33	107.35

Sq.m b) Two coats

1. Labour	Same as in item 17-29(b)			96.00	96.00
2. Material					
Paint synthetic enamel	1.65	Litre @	325.00	536.25	
Painting brush 2"	0.05	No. @	110.00	5.50	
Sand paper	1.50	No. @	20.00	30.00	
				571.75	
3. Sundries			2.5%	16.69	
Total of 2 & 3				588.44	
Contractor's profit & overhead			20%	117.69	
Total Composite rate				166.61	166.60

Item No. 17-32

Painting old surface in ground floor or basement with ICI/Berger or equivalent super gloss synthetic enamel paint on steel and iron work including cleaning and sand papering the surface.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour					
Total Labour rate	Same as in item 17-30(a)			48.00	48.00
2. Material					
Paint synthetic enamel	0.70	Litre @	325.00	227.50	
Painting brush 2"	0.05	No. @	110.00	5.50	
Sand paper/ wire brush	1.00	No. @	20.00	20.00	
				253.00	
3. Sundries			2.5%	7.53	
Total of 2 & 3				260.53	
Contractor's profit & overhead			20%	52.11	
Total Composite rate				79.26	79.25

Sq.m b) Two coats

1. Labour

Unit	Description	Component Cost		Unit Rate
				(Rs)
Total Labour rate	Same as in item 17-30(b)			96.00
				96.00
2. Material				
Paint synthetic enamel	1.25 Litre @	325.00		406.25
Painting brush 2"	0.05 No. @	110.00		5.50
Sand paper/ wire brush	1.50 No. @	20.00		30.00
				441.75
3. Sundries		2.5%		13.44
Total of 2 & 3				455.19
Contractor's profit & overhead		20%		91.04
Total Composite rate				150.62
				150.60

Item No. 17-33

Painting old surface in ground floor or basement with ICI/Berger or equivalent plastic emulsion paint as per manufacturer's instructions on plastered, rendered and concrete surface including cleaning and sand papering the surface.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour				
Total Labour rate	Same as in item 17-29(a)			72.00
				72.00
2. Material				
Paint - Plastic emulsion	0.80 Litre @	420.00		336.00
Painting brush 2"	0.05 No. @	110.00		5.50
Sand paper	1.00 No. @	20.00		20.00
				361.50
3. Sundries		2.5%		10.84
Total of 2 & 3				372.34
Contractor's profit & overhead		20%		74.47
Total Composite rate				116.68
				116.70

Sq.m b) Two coats

1. Labour				
Total Labour rate	Same as in item 17-29(b)			96.00
				96.00
2. Material				
Paint - Plastic emulsion	1.65 Litre @	420.00		693.00
Painting brush 2"	0.05 No. @	110.00		5.50
Sand paper	1.50 No. @	20.00		30.00
				728.50
3. Sundries		2.5%		20.61
Total of 2 & 3				749.11
Contractor's profit & overhead		20%		149.82
Total Composite rate				185.89
				185.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 17-34

Painting old surface in ground floor or basement with ICI/Berger or equivalent equivalent aluminium paint on steel and iron work as per manufacturer's instructions including cleaning and sand papering the surface.

Detail of cost for 10 Sq.m.

Sq.m a) One coat								
1. Labour								
Total Labour rate	Same as in item 17-30(a)				48.00			48.00
2. Material								
Paint - Aluminium	0.60	Litre	@	310.00	186.00			
Painting brush 2"	0.05	No.	@	110.00	5.50			
Sand paper/ wire brush	1.00	No.	@	20.00	20.00			
					211.50			
3. Sundries				2.5%	6.49			
Total of 2 & 3					217.99			
Contractor's profit & overhead				20%	43.60			
Total Composite rate					74.16			74.15
Sq.m b) Two coats								
1. Labour								
Total Labour rate	Same as in item 17-30(b)				96.00			96.00
2. Material								
Paint - Aluminium	1.25	Litre	@	310.00	387.50			
Painting brush 2"	0.05	No.	@	110.00	5.50			
Sand paper/ wire brush	1.50	No.	@	20.00	30.00			
					423.00			
3. Sundries				2.5%	12.98			
Total of 2 & 3					435.98			
Contractor's profit & overhead				20%	87.20			
Total Composite rate					148.32			148.30

Item No. 17-35

Painting old surface in ground floor or basement with black bituminous and/or black japan paint as per manufacturer's instruction on wood and/or steel and iron work including cleaning and sand papering the surface.

Detail of cost for 10 Sq.m.

Sq.m a) One coat								
1. Labour								
Painter	2.00	Hrs	@	125.00	250.00			
Helper	2.00	Hrs	@	75.00	150.00			
Total					400.00			
Contractor's profit & overhead				20%	80.00			
Total Labour rate					48.00			48.00
2. Material								
Paint black japan	0.80	Litre	@	350.00	280.00			
Painting brush 2"	0.05	No.	@	110.00	5.50			
Sand paper/ wire brush	1.00	No.	@	20.00	20.00			
					305.50			
3. Sundries				2.5%	17.64			
Total of 2 & 3					323.14			
Contractor's profit & overhead				20%	64.63			
Total Composite rate					86.78			86.80

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m b) Two coats

1. Labour							
Painter	3.00	Hrs	@	125.00	375.00		
Helper	3.00	Hrs	@	75.00	225.00		
Total					600.00		
Contractor's profit & overhead				20%	120.00		
Total Labour rate					72.00		72.00
2. Material							
Paint (mixed at site)	1.65	Litres	@	299.00	493.35		
Painting brush 2"	0.05	No.	@	110.00	5.50		
Sand paper/ wire brush	1.50	No.	@	20.00	30.00		
					528.85		
3. Sundries				2.5%	28.22		
Total of 2 & 3					557.07		
Contractor's profit & overhead				20%	111.41		
Total Composite rate					138.85		138.85

Item No. 17-36

Painting old surface in ground floor or basement with acid or alkali resisting paint of approved make and shade including cleaning and sand papering.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour							
Painter	3.00	Hrs	@	125.00	375.00		
Helper	3.00	Hrs	@	75.00	225.00		
Total					600.00		
Contractor's profit & overhead				20%	120.00		
Total Labour rate					72.00		72.00
2. Material							
Paint - Alkali resisting	0.70	Litre	@	200.00	140.00		
Painting brush 2"	0.05	No.	@	110.00	5.50		
Sand paper/ wire brush	1.00	No.	@	20.00	20.00		
					165.50		
3. Sundries				2.5%	19.14		
Total of 2 & 3					184.64		
Contractor's profit & overhead				20%	36.93		
Total Composite rate					94.16		94.15

Sq.m b) Two coats

1. Labour							
Painter	4.00	Hrs	@	125.00	500.00		
Helper	4.00	Hrs	@	75.00	300.00		
Total					800.00		
Contractor's profit & overhead				20%	160.00		
Total Labour rate					96.00		96.00
2. Material							
Paint - Alkali resisting	1.50	Litre	@	200.00	300.00		
Painting brush 2"	0.05	No.	@	110.00	5.50		
Sand paper/ wire brush	1.50	No.	@	20.00	30.00		
					335.50		
3. Sundries				2.5%	28.39		
Total of 2 & 3					363.89		
Contractor's profit & overhead				20%	72.78		
Total Composite rate					139.67		139.65

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 17-37

Varnishing in ground floor or basement with varnish paint of approved make on old surface of wood work including cleaning the surface.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour

Painter	3.00	Hrs	@	125.00	375.00
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Helper	3.00	Hrs	@	75.00	225.00
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Total					600.00
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Contractor's profit & overhead				20%	120.00
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Total Labour rate					72.00
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72.00

2. Material

Paint varnish	0.60	Litre	@	234.00	140.40
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Painting brush 2"	0.05	No.	@	110.00	5.50
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Glue	0.15	Kg.	@	160.00	24.00
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					169.90
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3. Sundries				2.5%	19.25
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Total of 2 & 3					189.15
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Contractor's profit & overhead				20%	37.83
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Total Composite rate					94.70
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94.70**Sq.m b) Two coats**

1. Labour

Painter	4.00	Hrs	@	125.00	500.00
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Helper	4.00	Hrs	@	75.00	300.00
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Total					800.00
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Contractor's profit & overhead				20%	160.00
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Total Labour rate					96.00
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96.00

2. Material

Paint varnish	1.25	Litre	@	234.00	292.50
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Painting brush 2"	0.05	No.	@	110.00	5.50
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Glue	0.20	Kg.	@	160.00	32.00
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					330.00
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3. Sundries				2.5%	28.25
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Total of 2 & 3					358.25
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Contractor's profit & overhead				20%	71.65
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Total Composite rate					138.99
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139.00**Item No. 17-38**

Spirit or french polishing of approved make on old surface of wood work including sand papering and cleaning in ground floor or basement.

Detail of cost for 10 Sq.m.

Sq.m a) One coat

1. Labour

Polisher	6.00	Hrs	@	110.00	660.00
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Helper	4.00	Hrs	@	75.00	300.00
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Total					960.00
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Contractor's profit & overhead				20%	192.00
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Total Labour rate					115.20
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115.20

2. Material

Polish french	0.60	Litre	@	115.00	69.00
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Oil linseed raw	0.30	Litre	@	90.00	27.00
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Sand paper	6.00	No.	@	20.00	120.00
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Cotton waste	2.5%	5.40
			<u>221.40</u>
	3. Sundries	2.5%	29.54
	Total of 2 & 3		<u>250.94</u>
	Contractor's profit & overhead	20%	50.19
	Total Composite rate		<u>145.31</u>
			145.30

Sq.m. b) Two coats

1. Labour					
Polisher	10.00	Hrs	@ 110.00	1,100.00	
Helper	7.00	Hrs	@ 75.00	525.00	
Total				<u>1,625.00</u>	
Contractor's profit & overhead			20%	325.00	
Total Labour rate				<u>195.00</u>	195.00
2. Material					
Polish french	1.25	Litre	@ 115.00	143.75	
Oil linseed raw	0.40	Litre	@ 90.00	36.00	
Sand paper	9.00	No.	@ 20.00	180.00	
Cotton waste			2.5%	8.99	
				<u>368.74</u>	
3. Sundries			2.5%	49.84	
Total of 2 & 3				<u>418.59</u>	
Contractor's profit & overhead			20%	83.72	
Total Composite rate				<u>245.23</u>	245.25

Item No. 17-39

Applying copal varnish of an approved make on old surface of wood work including sand papering and cleaning in ground floor or basement.

Detail of cost for 10 Sq.m.

Sq.m. a) One coat

1. Labour	Same as in item 17-37(a)			72.00	72.00
2. Material					
ICI Varnish synthetic	0.60	Liter	@ 2500.00	1,500.00	
Painting brush 2"	0.03	No.	@ 110.00	3.30	
Oil linseed boiled	0.60	Litre	@ 92.00	55.20	
Sand paper	2.00	No.	@ 20.00	40.00	
				<u>1,598.50</u>	
3. Sundries			2.5%	41.76	
Total of 2 & 3				<u>1,640.26</u>	
Contractor's profit & overhead			20%	328.05	
Total Composite rate				<u>268.83</u>	268.85

Sq.m. b) Two coats

1. Labour	Same as in item 17-37(b)			96.00	96.00
2. Material					
ICI Varnish synthetic	1.25	Liter	@ 2500.00	3,125.00	
Painting brush 2"	0.05	No.	@ 110.00	5.50	
Oil linseed boiled	1.25	Litre	@ 92.00	115.00	
Sand paper	4.00	No.	@ 20.00	80.00	
				<u>3,325.50</u>	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

3. Sundries	2.5%	85.54	
Total of 2 & 3		3,411.04	
Contractor's profit & overhead	20%	682.21	
Total Composite rate		505.32	505.30

Item No. 17-40

Applying synthetic clear varnish of an approved make on old surface of wood work including sand papering and cleaning in ground floor or basement.

Detail of cost for 10 Sq.m.

Sq.m. a) One coat

1. Labour	Same as in item 17-37(a)	72.00	72.00
2. Material			
Varnish synthetic clear	0.60 Liter @ 3500.00	2,100.00	
Painting brush 2"	0.03 No. @ 110.00	3.30	
Oil linseed boiled	0.60 Litre @ 92.00	55.20	
Sand paper	2.00 No. @ 20.00	40.00	
		2,198.50	
3. Sundries	2.5%	56.76	
Total of 2 & 3		2,255.26	
Contractor's profit & overhead	20%	451.05	
Total Composite rate		342.63	342.65

b) Two coats

1. Labour	Same as in item 17-37(b)	96.00	96.00
2. Material			
Varnish synthetic clear	1.25 Liter @ 3500.00	4,375.00	
Painting brush 2"	0.05 No. @ 110.00	5.50	
Oil linseed boiled	1.25 Litre @ 92.00	115.00	
Sand paper	4.00 No. @ 20.00	80.00	
		4,575.50	
3. Sundries	2.5%	116.79	
Total of 2 & 3		4,692.29	
Contractor's profit & overhead	20%	938.46	
Total Composite rate		659.07	659.05

Item No. 17-41

Sq.m. Applying bee wax polishing on old surface of wood work including sand papering and cleaning in ground floor or basement.

Detail of cost for 10 Sq.m.

1. Labour			
Polisher	6.00 Hrs @ 110.00	660.00	
Helper	6.00 Hrs @ 75.00	450.00	
Total		1,110.00	
Contractor's profit & overhead	20%	222.00	
Total Labour rate		133.20	133.20
2. Material			
Polish bee wax	0.20 Litre @ 425.00	85.00	
Oil turpentine	1.25 kg. @ 105.00	131.25	
Sand paper	4.00 No. @ 20.00	80.00	
Total		296.25	
3. Sundries	2.5%	35.16	
Total of 2 & 3		331.41	
Contractor's profit & overhead	20%	66.28	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Composite rate		172.97	172.95
	Item No. 17-42			
R.M.	Applying ICI/Berger or equivalent aluminium paint in two or more coats as per manufacturer's instructions on old surface of pipes including specials sand papering and cleaning in ground floor or basement.			
	Labour and composite rate same as for item 17-34(a) & (b)			
Sq.m.	a) One coat			
	Total Labour rate		48.00	48.00
	Total Composite rate		78.10	78.10
Sq.m.	b) Two coats			
	Total Labour rate		96.00	96.00
	Total Composite rate		163.45	163.45
R.M.	a) 1/2" (15 mm) nominal size of pipe			
	i) One coat			
	Labour rate per R.M.	0.06	Sq.m. @ 48.00	3.06
	Composite rate per R.M.	0.06	Sq.m. @ 78.10	0.87
	ii) Two coats			
	Labour rate per R.M.	0.06	Sq.m. @ 96.00	6.12
	Composite rate per R.M.	0.06	Sq.m. @ 163.45	10.43
	b) 3/4" (20 mm) nominal size of pipe			
	i) One coat			
	Labour rate per R.M.	0.08	Sq.m. @ 48.00	3.66
	Composite rate per R.M.	0.08	Sq.m. @ 78.10	1.04
	ii) Two coats			
	Labour rate per R.M.	0.08	Sq.m. @ 96.00	7.33
	Composite rate per R.M.	0.08	Sq.m. @ 163.45	12.48
	c) 1" (25 mm) nominal size of pipe			
	i) One coat			
	Labour rate per R.M.	0.10	Sq.m. @ 48.00	4.75
	Composite rate per R.M.	0.10	Sq.m. @ 78.10	1.35
	ii) Two coats			
	Labour rate per R.M.	0.10	Sq.m. @ 96.00	9.50
	Composite rate per R.M.	0.10	Sq.m. @ 163.45	16.18
	d) 1-1/4" (32 mm) nominal size of pipe			
	i) One coat			
	Labour rate per R.M.	0.12	Sq.m. @ 48.00	5.81
	Composite rate per R.M.	0.12	Sq.m. @ 78.10	1.65

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
ii)	Two coats					
	Labour rate per R.M.	0.12	Sq.m.	@ 96.00	11.61	11.60
	Composite rate per R.M.	0.12	Sq.m.	@ 163.45	19.77	19.75
e)	1-1/2" (40 mm) nominal size of pipe					
i)	One coat					
	Labour rate per R.M.	0.15	Sq.m.	@ 48.00	7.01	7.00
	Composite rate per R.M.	0.15	Sq.m.	@ 78.10	1.99	2.00
ii)	Two coats					
	Labour rate per R.M.	0.15	Sq.m.	@ 96.00	14.03	14.05
	Composite rate per R.M.	0.15	Sq.m.	@ 163.45	23.88	23.90
f)	2" (50 mm) nominal size of pipe					
i)	One coat					
	Labour rate per R.M.	0.18	Sq.m.	@ 48.00	8.64	8.65
	Composite rate per R.M.	0.18	Sq.m.	@ 78.10	2.45	2.45
ii)	Two coats					
	Labour rate per R.M.	0.18	Sq.m.	@ 96.00	17.28	17.30
	Composite rate per R.M.	0.18	Sq.m.	@ 163.45	29.43	29.45
g)	2-1/2" (65 mm) nominal size of pipe					
i)	One coat					
	Labour rate per R.M.	0.23	Sq.m.	@ 48.00	10.90	10.90
	Composite rate per R.M.	0.23	Sq.m.	@ 78.10	3.09	3.10
ii)	Two coats					
	Labour rate per R.M.	0.23	Sq.m.	@ 96.00	21.81	21.80
	Composite rate per R.M.	0.23	Sq.m.	@ 163.45	37.13	37.15
h)	3" (75 mm) nominal size of pipe					
i)	One coat					
	Labour rate per R.M.	0.28	Sq.m.	@ 48.00	13.29	13.30
	Composite rate per R.M.	0.28	Sq.m.	@ 78.10	3.77	3.75
ii)	Two coats					
	Labour rate per R.M.	0.28	Sq.m.	@ 96.00	26.57	26.55
	Composite rate per R.M.	0.28	Sq.m.	@ 163.45	45.25	45.25
ai)	4" (100 mm) nominal size of pipe					
i)	One coat					
	Labour rate per R.M.	0.34	Sq.m.	@ 48.00	16.44	16.45
	Composite rate per R.M.	0.34	Sq.m.	@ 78.10	4.66	4.65

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
ii)	Two coats					
	Labour rate per R.M.	0.34	Sq.m.	@ 96.00	32.88	32.90
	Composite rate per R.M.	0.34	Sq.m.	@ 163.45	55.98	56.00
j)	5" (125 mm) nominal size of pipe					
i)	One coat					
	Labour rate per R.M.	0.42	Sq.m.	@ 48.00	20.36	20.35
	Composite rate per R.M.	0.42	Sq.m.	@ 78.10	5.78	5.80
ii)	Two coats					
	Labour rate per R.M.	0.42	Sq.m.	@ 96.00	40.72	40.70
	Composite rate per R.M.	0.42	Sq.m.	@ 163.45	69.33	69.35
k)	6" (150 mm) nominal size of pipe					
i)	One coat					
	Labour rate per R.M.	0.51	Sq.m.	@ 48.00	24.28	24.30
	Composite rate per R.M.	0.51	Sq.m.	@ 78.10	6.89	6.90
ii)	Two coats					
	Labour rate per R.M.	0.51	Sq.m.	@ 96.00	48.56	48.55
	Composite rate per R.M.	0.51	Sq.m.	@ 163.45	82.68	82.70

The payment for painting the pipe above 6" (150 mm) diameter will be made under item 17-19 (a) and (b) in Sq.m. by taking the circumferencial area of pipes.

Item No. 17-43-1

Sq.m. Applying in ground floor or basement one coat with zinc chromate primer on old surface of approved make including sand papering and cleaning the surface.

Detail of cost for 10 Sq.m.

1. Labour

Painter	2.00	Hrs	@	125.00	250.00	
Helper	2.00	Hrs	@	75.00	150.00	
Total					<u>400.00</u>	
Contractor's profit & overhead				20%	80.00	
Total Labour rate					<u>48.00</u>	48.00

2. Material

primer	1.00	Litre	@	350.00	350.00	
Painting brush 2"	0.03	No.	@	110.00	3.30	
Sand paper	3.00	No.	@	20.00	60.00	
					<u>413.30</u>	

3. Sundries

Total of 2 & 3				2.5%	<u>20.33</u>	
Contractor's profit & overhead				20%	86.73	
Total Composite rate					<u>100.04</u>	100.05

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 17-44-1

Sq.m. Applying in ground floor or basement one coat with synthetic red or white lead primer on old surface of approved make including sand papering and cleaning the surface.

Detail of cost for 10 Sq.m.

1. Labour

Total Labour rate	Same as in item 17-43	48.00	48.00
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2. Material

Paint synthetic lead	1.00	Litre	@	2307.50	2,307.50
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Painting brush 2"	0.03	No.	@	110.00	3.30
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Sand paper/ wire brush	3.00	No.	@	20.00	60.00
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					2,370.80
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3. Sundries				2.5%	60.47
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Total of 2 & 3					2,431.27
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Contractor's profit & overhead				20%	486.25
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Total Composite rate					339.75	339.75
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Item No. 17-45-1

Sq.m. Applying in ground floor or basement one coat with synthetic red oxide primer on old surface of approved make including sand papering and cleaning the surface.

Detail of cost for 10 Sq.m.

1. Labour

Total Labour rate	Same as in item 17-43-1	48.00	48.00
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2. Material

Paint red oxide primer	1.00	Litre	@	208.00	208.00
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Painting brush 2"	0.03	No.	@	110.00	3.30
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Sand paper/ wire brush	3.00	No.	@	20.00	60.00
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					271.30
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3. Sundries				2.5%	7.98
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Total of 2 & 3					279.28
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Contractor's profit & overhead				20%	55.86
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Total Composite rate					81.51	81.50
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Item No. 17-46-1

Sq.m. Removing in ground floor or basement old paint from brick works including cleaning & removing the rubbish from the site.

Detail of cost for 10 Sq.m.

1. Labour

Labourer	12.00	Hrs	@	87.50	1,050.00
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Extra for scraping material & removing the rubbish				10%	105.00
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					1,155.00
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Contractor's profit & overhead				20%	231.00
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Total Labour rate					138.60	138.60
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Item No. 17-47

% Extra for respective payable item of ground floor

For first floor	10%	10%
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For each additional floor above first floor	7.5%	7.5%
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Item No-17-48-1

R.M. Painting traffic lane 5"(125 mm) wide, with road marking enamel

1. Labour	0.02	Hrs	@	87.50	1.75
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Contractor's profit & overhead				20%	0.35
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Total Labour rate					2.10	2.10
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Material	0.013	Litres @ 400.00	5.20
	Contractor's profit & overhead		20%	1.04
	Total Composite rate			<u>8.34</u>
				8.35
Sq.m	Item No. 17-49-1			
	Painting traffic lane 5"(125 mm) wide, with road marking enamel wide with reflective chlorinated rubber (CR) paint including glass beads complete in all respects			
	Detail for 10 Sq.m			
	1. Labour			
	Painter	4.00	Hrs @ 125.00	500.00
	Helper	4.00	Hrs @ 75.00	300.00
	Total			<u>800.00</u>
	Contractor's profit & overhead		20%	160.00
	Total Labour rate			<u>96.00</u>
				96.00
	2. Material			
	CR Paint	3.75	Liters @ 350.00	1,312.50
	Glass Beads	1.20	Kg @ 300.00	360.00
				<u>1,672.50</u>
	3. Plant & equipment			
	Blow lamp		Hire charges 5%	83.63
	4. Sundries		2.5%	46.30
	Total of 2 & 3			<u>1,756.13</u>
	Contractor's profit & overhead		20%	351.23
	Total Composite rate			<u>306.74</u>
				306.75
Sq.m	Item No. 17-50-1			
	P/L road marking with T.P (Thermoplastic) reflective paint 5" wide. Complete in all respect.			
	Detail for 10 sq M			
	1. Labour			
	Painter	4.00	Hrs @ 125.00	500.00
	Helper	4.00	Hrs @ 75.00	300.00
	Total			<u>800.00</u>
	Contractor's profit & overhead		20%	160.00
	Total Labour rate			<u>96.00</u>
				96.00
	2. Material			
	CR Paint	3.75	Liters @ 700.00	2,625.00
	Glass Beads	1.20	Kg @ 300.00	360.00
				<u>2,985.00</u>
	3. Plant & equipment			
	Blow lamp		Hire charges 5%	149.25
	4. Sundries		2.5%	80.76
	Total of 2 & 3			<u>3,134.25</u>
	Contractor's profit & overhead		20%	626.85
	Total Composite rate			<u>472.11</u>
				472.10
Sq.m.	Item No. 17-51-1			
	Scraping, rubbing and cleaning of oil bound distemper from ceiling and walls including removal of rubbish in all floor items.			
	Detail of Cost of 10 Sq.m.			
	1. Labour			
	Labourer	2.00	Hrs @ 87.50	175.00
	Bahishti	1.00	Hrs @ 87.50	87.50
	Total			<u>262.50</u>
	Contractor's profit & overhead		20%	52.50
	Total Labour rate			<u>31.50</u>
				31.50
	2. Material			
	Caustic soda	0.10	Kg. @ 70.00	7.00
	Sand paper	6.00	No. @ 20.00	120.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Hessian	0.10	Kg. @ 46.00	4.60
	Water Charges		1.50%	1.98
				133.58
	3. Scaffolding and Sundries		5%	6.68
	Total of 2 & 3			140.26
	Contractor's profit & overhead		20%	28.05
	Total Composite rate per Sq. m.			48.33
				48.35
	Item No. 17-52-1			
Sq.m.	Scraping, rubbing and cleaning emulsion finish distemper from walls and ceiling including removal of rubbish in all floor items.			
	Detail of Cost of 10 Sq.m.			
	1. Labour			
	Labourer	4.00	Hrs @ 87.50	350.00
	Bahishti	1.00	Hrs @ 87.50	87.50
	Total			437.50
	Contractor's profit & overhead		20%	87.50
	Total Labour rate			52.50
				52.50
	2. Material			
	Caustic soda	0.15	Kg. @ 70.00	10.50
	Sand paper	3.00	No. @ 20.00	60.00
	Hessian	0.15	Kg. @ 46.00	6.90
	Water Charges		1.50%	1.16
				78.56
	3. Scaffolding and Sundries		5%	3.93
	Total of 2 & 3			82.48
	Contractor's profit & overhead		20%	16.50
	Total Composite rate per Sq. m.			62.40
				62.40
	Item No. 17-53-1			
Sq.m.	Brushing and cleaning with solution of caustic soda the surface of stone masonry, brick masonry and concrete including removal of rubbish in all floor items.			
	Detail of Cost of 10 Sq.m.			
	1. Labour			
	Labourer	1.50	Hrs @ 87.50	131.25
	Bahishti	1.50	Hrs @ 87.50	131.25
	Total			262.50
	Contractor's profit & overhead		20%	52.50
	Total Labour rate			31.50
				31.50
	2. Material			
	Same as in item 17-52-1			78.56
	3. Scaffolding and Sundries		5%	3.93
	Total of 2 & 3			82.48
	Contractor's profit & overhead		20%	16.50
	Total Composite rate per Sq. m.			41.40
				41.40
	Item No. 17-54			
	White washing on old surface of walls & ceiling including dusting and cleaning in basement and ground floor			
	Detail of Cost of 10 Sq.m.			
Sq.m. a)	One coat			
	1. Labour			
	White washer	1.00	Hrs @ 110.00	110.00
	Labourer	1.00	Hrs @ 87.50	87.50
				197.50
	Contractor's profit & overhead		20%	39.50
	Total Labour rate			23.70
				23.70
	2. Material			
	Lime	1.00	Kg. @ 7.70	7.70
	Gum, salt, Indigo(neel) etc.		100%	7.70
				15.40

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Water charges	1.5%	0.23	
			<u>15.63</u>	
	3. Scaffolding and Sundries	5%	9.88	
	Total of 2 & 3		<u>25.50</u>	
	Contractor's profit & overhead	20%	5.10	
	Total Composite rate per Sq. m.		<u>26.76</u>	26.75
Sq.m. b)	Two coats			
	1. Labour			
	White washer	1.25	Hrs @ 110.00	137.50
	Labourer	1.25	Hrs @ 87.50	<u>109.38</u>
				<u>246.88</u>
	Contractor's profit & overhead	20%	49.38	
	Total Labour rate		<u>29.63</u>	29.65
	2. Material			
	Lime	1.50	Kg. @ 7.70	11.55
	Gum, salt, Indigo(neel) etc.		100%	<u>11.55</u>
				<u>23.10</u>
	Water charges	1.5%	0.35	
			<u>23.45</u>	
	3. Scaffolding and Sundries	5%	12.34	
	Total of 2 & 3		<u>35.79</u>	
	Contractor's profit & overhead	20%	7.16	
	Total Composite rate per Sq. m.		<u>33.92</u>	33.90
Sq.m. c)	Three coats			
	1. Labour			
	White washer	1.50	Hrs @ 110.00	165.00
	Labourer	1.50	Hrs @ 87.50	<u>131.25</u>
				<u>296.25</u>
	Contractor's profit & overhead	20%	59.25	
	Total Labour rate		<u>35.55</u>	35.55
	2. Material			
	Lime	2.00	Kg. @ 7.70	15.40
	Gum, salt, Indigo(neel) etc.		100%	<u>15.40</u>
				<u>30.80</u>
	Water charges	1.5%	0.47	
			<u>31.27</u>	
	3. Scaffolding and Sundries	5%	14.81	
	Total of 2 & 3		<u>46.08</u>	
	Contractor's profit & overhead	20%	9.22	
	Total Composite rate per Sq. m.		<u>41.08</u>	41.10
	Item No. 17-55			
	Colour washing on old surface of walls and ceiling including dusting and cleaning in basement and ground floor			
	Detail of Cost of 10 Sq.m.			
Sq.m. a)	One coat			
	1. Labour			
	Same as in item 17-54 (a) above			197.50
	Extra labour for mixing colour			<u>8.75</u>
	Labourer	0.10	Hrs @ 87.50	<u>206.25</u>
	Contractor's profit & overhead	20%	41.25	
	Total Labour rate		<u>24.75</u>	24.75
	2. Material			
	Same as in item 17-54 (a) above			15.40
	Colouring material		15%	<u>2.31</u>
				<u>17.71</u>
	3. Scaffolding and Sundries	5%	10.31	
	Total of 2 & 3		<u>28.02</u>	
	Contractor's profit & overhead	20%	5.60	
	Total Composite rate per Sq. m.		<u>28.11</u>	28.10
Sq.m. b)	Two coats			
	1. Labour			
	Same as in item 17.54 (b) above			246.88
	Extra labour for mixing colour			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Labourer	0.10	Hrs @ 87.50	8.75
				255.63
	Contractor's profit & overhead		20%	51.13
	Total Labour rate			30.68
				30.70
	2. Material Same as in item 17.54 (b) above			23.10
	Same as in item 17.54 (b) above			3.47
	Colouring material		15%	26.57
				12.78
	3. Scaffolding and Sundries		5%	39.35
	Total of 2 & 3			7.87
	Contractor's profit & overhead		20%	35.40
	Total Composite rate per Sq. m.			35.40
Sq.m. c)	Three coats			
	1. Labour Same as in item 17.54 (c) above			296.25
	Extra labour for mixing colour			
	Labourer	0.10	Hrs @ 87.50	8.75
				305.00
	Contractor's profit & overhead		20%	61.00
	Total Labour rate			36.60
				36.60
	2. Material Same as in item 17.54 (c) above			31.27
	Colouring material		15%	4.69
				35.95
	3. Scaffolding and Sundries		5%	15.25
	Total of 2 & 3			51.20
	Contractor's profit & overhead		20%	10.24
	Total Composite rate per Sq. m.			42.74
				42.75
	Item No. 17-56			
	Chalk washing on old surface of walls and ceiling including dusting and cleaning in basement and ground floor			
	Detail of Cost of 10 Sq.m.			
Sq.m. a)	One coat			
	1. Labour			
	White washer	1.00	Hrs @ 110.00	110.00
	Labourer	1.00	Hrs @ 87.50	87.50
				197.50
	Contractor's profit & overhead		20%	39.50
	Total Labour rate			23.70
				23.70
	2. Material			
	Chalk	0.60	Kg. @ 10.00	6.00
	Lime	1.00	Kg. @ 7.70	7.70
	Gum, salt, Indigo(neel) etc.		15%	2.06
				15.76
	Water charges		1.5%	0.24
				16.00
	3. Scaffolding and Sundries		5%	9.88
	Total of 2 & 3			25.87
	Contractor's profit & overhead		20%	5.17
	Total Composite rate per Sq. m.			26.80
				26.80
Sq.m. b)	Two coats			
	1. Labour			
	White washer	1.50	Hrs @ 110.00	165.00
	Labourer	1.50	Hrs @ 87.50	131.25
				296.25
	Contractor's profit & overhead		20%	59.25
	Total Labour rate			35.55
				35.55
	2. Material			
	Chalk	1.25	Kg. @ 10.00	12.50
	Lime	0.25	Kg. @ 7.70	1.93
	Gum, salt, Indigo(neel) etc.		15%	2.16
				16.59
	Water charges		1.5%	0.26
				16.84

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	3. Scaffolding and Sundries	5%	14.81	
	Total of 2 & 3		31.66	
	Contractor's profit & overhead	20%	6.33	
	Total Composite rate per Sq. m.		39.35	39.35
Sq.m. c)	Three coats			
	1. Labour			
	White washer	2.00 Hrs @	110.00	220.00
	Labourer	2.00 Hrs @	87.50	175.00
			395.00	
	Contractor's profit & overhead	20%	79.00	
	Total Labour rate		47.40	47.40
	2. Material			
	Chalk	1.60 Kg. @	10.00	16.00
	Lime	0.30 Kg. @	7.70	2.31
	Gum, salt, Indigo(neel) etc.	15%	2.75	21.06
	Water charges	1.5%	0.32	21.37
	3. Scaffolding and Sundries	5%	19.75	
	Total of 2 & 3		41.12	
	Contractor's profit & overhead	20%	8.22	
	Total Composite rate per Sq. m.		52.33	52.35
	Item No. 17.57			
	Cement washing on old surface of walls and ceiling including dusting and cleaning in basement and ground floor			
	Detail of Cost of 10 Sq.m.			
Sq.m. a)	One coat			
	1. Labour Same as in item 17-56 (a) above		197.50	
	Contractor's profit & overhead	20%	39.50	
	Total Labour rate		23.70	23.70
	2. Material			
	Cement OPC	1.20 Kg. @	10.50	12.60
	Glue	70%	8.82	21.42
	Water charges	1.5%	0.32	21.74
	3. Scaffolding and Sundries	5%	9.88	
	Total of 2 & 3		31.61	
	Contractor's profit & overhead	20%	6.32	
	Total Composite rate per Sq. m.		27.49	27.50
Sq.m. b)	Two coats			
	1. Labour Same as in item 17-56 (b) above		296.25	
	Contractor's profit & overhead	20%	59.25	
	Total Labour rate		35.55	35.55
	2. Material			
	Cement OPC	2.20 Kg. @	10.50	23.10
	Glue	70%	16.17	39.27
	Water charges	1.5%	0.59	39.86
	3. Scaffolding and Sundries	5%	2.96	
	Total of 2 & 3		42.82	
	Contractor's profit & overhead	20%	8.56	
	Total Composite rate per Sq. m.		40.69	40.70
Sq.m. c)	Three coats			
	1. Labour Same as in item 17-56 (c) above		395.00	
	Contractor's profit & overhead	20%	79.00	
	Total Labour rate		47.40	47.40
	2. Material			
	Cement OPC	2.20 Kg. @	10.50	23.10
	Glue	70%	16.17	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
		39.27	
	Water charges	1.5%	0.59
			39.86
	3. Scaffolding and Sundries	5%	19.75
	Total of 2 & 3		59.61
	Contractor's profit & overhead	20%	11.92
	Total Composite rate per Sq. m.		54.55
			54.55

Item No. 17-58

Painting with Premier Quality Distemper on old surface of walls and ceiling including dusting and cleaning in basement and ground floor.

Detail of Cost of 10 Sq.m.

Sq.m. a) One coat @ atleast 2 Kgs per 10 Sq.m.

1. Labour

Painter	2.50	Hrs	@	125.00	312.50
Helper	2.50	Hrs	@	75.00	187.50
					500.00
Contractor's profit & overhead				20%	100.00
Total Labour rate					60.00

60.00

2. Material

Paint distemper	2.00	Kg.	@	215.00	430.00
Brush/sand paper				15%	5.89
					435.89

Water Charges				1.5%	6.54
					442.43

3. Scaffolding and Sundries				5%	25.00
Total of 2 & 3					467.43

Contractor's profit & overhead				20%	93.49
Total					560.92

Total Composite rate per Sq. m.					116.09
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116.10**Sq.m. b) Two coats @ atleast 3 Kgs per 10 Sq.m.**

1. Labour

Painter	3.00	Hrs	@	125.00	375.00
Helper	3.00	Hrs	@	75.00	225.00
					600.00
Contractor's profit & overhead				20%	120.00
Total Labour rate					72.00

72.00

2. Material

Paint distemper	3.00	Kg.	@	215.00	645.00
Brush/sand paper				15%	5.98
					650.98

Water Charges				1.5%	9.77
					660.74

3. Scaffolding and Sundries				5%	30.00
Total of 2 & 3					690.74

Contractor's profit & overhead				20%	138.15
Total Composite rate per Sq. m.					154.89

154.90**Item No. 17-59**

Oil free distemping of approved make and shade on old surface of walls and ceiling including dusting, sand papering and cleaning in basement and ground floor.

Detail of Cost of 10 Sq.m.

Sq.m. a) One coat (@ atleast 0.75 Kg per 10 Sq.m)

1. Labour

Painter	1.25	Hrs	@	125.00	156.25
Helper	1.25	Hrs	@	75.00	93.75
					250.00
Contractor's profit & overhead				20%	50.00
Total Labour rate					30.00

30.00

2. Material

Paint distemper	0.75	Kg.	@	215.00	161.25
Brush/sand paper				15%	66.36
					227.61

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Water Charges	1.5%	3.42	
			<u>231.03</u>	
	3. Scaffolding and Sundries	5%	12.50	
	Total of 2 & 3		<u>243.53</u>	
	Contractor's profit & overhead	20%	48.71	
	Total Composite rate per Sq. m.		<u>59.22</u>	59.20
Sq.m. b)	Two coats (@ atleast 1.00 Kg per 10 Sq.m)			
	1. Labour			
	Painter	2.00	Hrs @ 125.00	250.00
	Helper	2.00	Hrs @ 75.00	<u>150.00</u>
				<u>400.00</u>
	Contractor's profit & overhead	20%	80.00	
	Total Labour rate		<u>48.00</u>	48.00
	2. Material			
	Paint distemper	1.00	Kg. @ 215.00	215.00
	Brush/sand paper		15%	<u>99.11</u>
				<u>314.11</u>
	Water Charges	1.5%	4.71	
			<u>318.82</u>	
	3. Scaffolding and Sundries	5%	20.00	
	Total of 2 & 3		<u>338.82</u>	
	Contractor's profit & overhead	20%	67.76	
	Total Composite rate per Sq. m.		<u>88.66</u>	88.65
Sq.m. c)	Three coats (@ atleast 1.50 Kg per 10 Sq.m)			
	1. Labour			
	Painter	2.50	Hrs @ 125.00	312.50
	Helper	2.50	Hrs @ 75.00	<u>187.50</u>
				<u>500.00</u>
	Contractor's profit & overhead	20%	100.00	
	Total Labour rate		<u>60.00</u>	60.00
	2. Material			
	Paint distemper	1.50	Kg. @ 215.00	322.50
	Brush/sand paper		15%	<u>7.50</u>
				<u>330.00</u>
	Water Charges	1.5%	4.95	
			<u>334.95</u>	
	3. Scaffolding and Sundries	5%	25.00	
	Total of 2 & 3		<u>359.95</u>	
	Contractor's profit & overhead	20%	71.99	
	Total Composite rate per Sq. m.		<u>103.19</u>	103.20
	Item No. 17-60			
	Distemping with Berger/ ICI or equivalent synthetic vinyl emulsion paint of approved shade on old surface of walls and ceiling including dusting, sand papering and cleaning in basement and ground floor.			
	Detail of Cost of 10 Sq.m.			
Sq.m. a)	One coat (@ atleast 1.25 Kg per 10 Sq.m)			
	1. Labour			
	Painter	2.00	Hrs @ 125.00	250.00
	Helper	1.50	Hrs @ 75.00	<u>112.50</u>
				<u>362.50</u>
	Contractor's profit & overhead	20%	72.50	
	Total Labour rate		<u>43.50</u>	43.50
	2. Material			
	Paint - vinyl emulsion	1.25	Litre @ 218.75	273.44
	Brush/sand paper		15%	<u>41.02</u>
				<u>314.45</u>
	Water Charges	1.5%	4.71	
			<u>319.16</u>	
	3. Scaffolding and Sundries	5%	18.13	
	Total of 2 & 3		<u>337.29</u>	
	Contractor's profit & overhead	20%	67.46	
	Total Composite rate per Sq. m.		<u>83.97</u>	83.95

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. b) Two coats (@ atleast 1.50 Litre per 10 Sq.m)

1. Labour							
Painter	2.50	Hrs	@ 125.00	312.50			
Helper	2.50	Hrs	@ 75.00	187.50			
				500.00			
Contractor's profit & overhead			20%	100.00			
Total Labour rate				600.00			60.00
2. Material							
Paint - vinyl emulsion	1.50	Litre	@ 218.75	328.13			
Brush/sand paper			15%	49.22			
				377.34			
Water Charges			1.5%	5.66			
				383.00			
3. Scaffolding and Sundries							
Total of 2 & 3				398.00			
Contractor's profit & overhead			20%	79.60			
Total Composite rate per Sq. m.				107.76			107.75

Sq.m. c) Three coats (@ atleast 1.75 Litre per 10 Sq.m)

1. Labour							
Painter	3.00	Hrs	@ 125.00	375.00			
Helper	3.00	Hrs	@ 75.00	225.00			
				600.00			
Contractor's profit & overhead			20%	120.00			
Total Labour rate				720.00			72.00
2. Material							
Paint - vinyl emulsion	1.75	Litre	@ 218.75	382.81			
Brush/sand paper			15%	57.42			
				440.23			
Water Charges			1.5%	6.60			
				446.83			
3. Scaffolding and Sundries							
Total of 2 & 3				476.83			
Contractor's profit & overhead			20%	95.37			
Total Composite rate per Sq. m.				129.22			129.20

Item No. 17-61

Applying weather resistant paint coating such as ICI/ Berger or equivalent paint of approved shade on old surface of walls and ceiling including dusting, sand papering and cleaning, scaffolding and removal of debris.

Detail of Cost of 10 Sq.m.

Sq.m. a) One coat (@ atleast 1.75 Litre per 10 Sq.m)

1. Labour							
Painter	4.00	Hrs	@ 125.00	500.00			
Helper	6.00	Hrs	@ 75.00	450.00			
				950.00			
Contractor's profit & overhead			20%	190.00			
Total Labour rate				1140.00			114.00
2. Material							
Paint weather coat	1.75	Litre	@ 400.00	700.00			
Brush/sand paper			33%	231.00			
				931.00			
Water Charges			1.5%	13.97			
				944.97			
3. Scaffolding and Sundries							
Total of 2 & 3				992.21			
Contractor's profit & overhead			20%	198.44			
Total Composite rate per Sq. m.				233.07			233.05

Sq.m. b) Two coats (@ atleast 2.25 Litre per 10 Sq.m)

1. Labour							
Painter	5.00	Hrs	@ 125.00	625.00			
Helper	6.00	Hrs	@ 75.00	450.00			
				1075.00			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	215.00	
	Total Labour rate		129.00	129.00
	2. Material			
	Paint weather coat	2.25 Litre @	400.00	900.00
	Brush/sand paper		33%	297.00
				1197.00
	Water Charges		1.5%	17.96
				1214.96
	3. Scaffolding and Sundries		5%	60.75
	Total of 2 & 3			1275.70
	Contractor's profit & overhead	20%	255.14	
	Total Composite rate per Sq. m.		282.08	282.10
Sq.m. c)	Three coats (@ atleast 3.00 Litre per 10 Sq.m)			
	1. Labour			
	Painter	6.00 Hrs @	125.00	750.00
	Helper	8.00 Hrs @	75.00	600.00
				1350.00
	Contractor's profit & overhead	20%	270.00	
	Total Labour rate		162.00	162.00
	2. Material			
	Paint weather coat	3.00 Litre @	400.00	1200.00
	Brush/sand paper		15%	180.00
				1380.00
	Water Charges		1.5%	20.70
				1400.70
	3. Scaffolding and Sundries		5%	70.04
	Total of 2 & 3			1470.74
	Contractor's profit & overhead	20%	294.15	
	Total Composite rate per Sq. m.		338.49	338.50
	Item No. 17-62-1			
Sq.m.	White washing three coats including dusting, filling the holes, cracks and removing inequalities, if any, at any height in any floor.			
	Detail of Cost of 10 Sq.m.			
	1. Labour			
	White washer	1.25 Hrs @	110.00	137.50
	Labourer	1.25 Hrs @	87.50	109.38
	Bahishti	0.10 Hrs @	87.50	8.75
				255.63
	Contractor's profit & overhead	20%	51.13	
	Total Labour rate		30.68	30.70
	2. Material			
	Lime	23.00 Kg. @	7.70	177.10
	Gum		6%	10.63
	Indigo (neel).		3%	5.31
	Salt.		3%	5.31
	Brush etc.		5%	8.86
				207.21
	Water charges		1.5%	3.11
				210.31
	3. Scaffolding and Sundries		5%	12.78
	Total of 1, 2 & 3			478.72
	Contractor's profit & overhead	20%	95.74	
	Total			574.46
	Total Composite rate per Sq. m.		57.45	57.45
	Item No. 17-63-1			
Sq.m.	Colour washing two coats over and including the cost of one priming coat of lie wash including dusting, filling the holes, cracks and removing inequalities, if any, at any height in any floor			
	Detail of Cost of 10 Sq.m.			
	1. Labour			
	Cost 10% extra on Item 17-63 for colour mixing			281.19

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	56.24	
	Total Labour rate		33.74	33.75
	2. Material			
	Cost 10% extra on Item 17-63 for colouring material		231.34	
	3. Scaffolding and Sundries	5%	14.06	
	Total of 2 & 3		245.40	
	Contractor's profit & overhead	20%	49.08	
	Total		294.48	
	Total Composite rate per Sq. m.		63.19	63.20
	Item No. 17-64-1			
Sq.m.	Chalk washing three coats at any height in any floor.			
	Detail of Cost of 10 Sq.m.			
	1. Labour			
	White washer	1.00	Hrs @ 110.00	110.00
	Labourer	1.50	Hrs @ 87.50	131.25
	Bahishti	0.15	Hrs @ 87.50	13.13
				254.38
	Contractor's profit & overhead	20%	50.88	
	Total Labour rate		30.53	30.55
	2. Material			
	Chalk	3.00	Kg. @ 10.00	30.00
	Lime	3.50	Kg. @ 7.70	26.95
	Gum		2%	0.60
	Indigo (neel).		1%	0.30
	Salt.		1%	0.30
	Brush etc.		2%	0.45
				58.60
	Water charges	1.5%	0.89	
			59.49	
	3. Scaffolding and Sundries	5%	12.72	
	Total of 2 & 3		72.20	
	Contractor's profit & overhead	20%	14.44	
	Total		86.64	
	Total Composite rate per Sq. m.		39.19	39.20
	Item No. 17-65-1			
Sq.m.	Cement washing two coats at any height in any floor.			
	Detail of Cost of 10 Sq.m.			
	1. Labour			
	White washer	0.75	Hrs @ 110.00	82.50
	Labourer	0.75	Hrs @ 87.50	65.63
	Bahishti	0.10	Hrs @ 87.50	8.75
				156.88
	Contractor's profit & overhead	20%	31.38	
	Total Labour rate		18.83	18.85
	2. Material			
	Cement OPC	3.25	Kg. @ 10.50	34.13
	Water charges		1.5%	0.51
				398.59
	3. Scaffolding and Sundries	5%	19.93	
	Total of 2 & 3		418.52	
	Contractor's profit & overhead	20%	83.70	
	Total		502.22	
	Total Composite rate per Sq. m.		69.05	69.05
	Item No. 17-66-1			
Sq.m.	Oil free distemping of approved make and shade in two or more coats over and including the cost of priming coat including preparation of surface viz. dusting, sand papering or rubbing with pumice stone, filling cracks or holes, if any, removing blisters or other imperfections at any height and any floor. (@ atleast 1.25 kg per 10 Sq.m of distemper per coat)			
	Detail of Cost of 10 Sq.m.			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
1. Labour				
Surface preparation:				
Painter	1.50 Hrs @	125.00		187.50
Helper	1.50 Hrs @	75.00		112.50
				<u>300.00</u>
Priming coat:				
Painter	0.75 Hrs @	125.00		93.75
Helper	0.75 Hrs @	75.00		56.25
				<u>150.00</u>
Finishing coat:				
Painter	1.25 Hrs @	125.00		156.25
Helper	1.25 Hrs @	75.00		93.75
Bahishti	0.50 Hrs @	87.50		43.75
				<u>293.75</u>
Total				743.75
Contractor's profit & overhead		20%		148.75
Total Labour rate				<u>89.25</u>
				89.25
2. Material				
Surface preparation:				
Chalk	1.25 Kg. @	10.00		12.50
Lime	0.50 Kg. @	7.70		3.85
Sand paper or pumice stone		20%		3.27
Putty or chaulking compound		50%		8.18
Gum, Indigo (Neel), Salt etc.		15%		2.45
				<u>30.25</u>
Priming coat:				
Gum	0.20 Kg. @	65.00		13.00
Sunlight soap	2.00 Nos. @	24.00		48.00
				<u>61.00</u>
Finishing coat:				
Paint distemper	1.25 Kg. @	215.00		268.75
Painting brush 4"	0.025 No. @	350.00		8.75
Sand paper	0.50 No. @	20.00		10.00
				<u>287.50</u>
Total				378.75
Water Charges		1.5%		5.68
				<u>384.43</u>
3. Scaffolding and Sundries		5%		19.22
Total of 2 & 3				403.65
Contractor's profit & overhead		20%		80.73
Total Composite rate per Sq. m.				<u>137.69</u>
				137.70

Item No. 17-67-1

Sq.m. Distemping with Berger, ICI or equivalent synthetic polyvinyl emulsion finish of approved shade in two or more coats over and including the cost of priming coat including preparation of surface viz. dusting, sand papering or rubbing with pumice stone, filling cracks or holes, if any, removing blisters or other imperfections at any height and any floor. (@ atleast 2.20 Litre per 10 Sq.m)

Detail of cost of 10 Sq.m.

1. Labour				
Surface preparation:	Same as in item 17-66			300.00
Priming coat:	Same as in item 17-66			150.00
Finishing coat:				
Painter	2.00 Hrs @	125.00		250.00
Helper	2.00 Hrs @	75.00		150.00
Bahishti	0.50 Hrs @	87.50		43.75
				<u>443.75</u>
Total				893.75
Contractor's profit & overhead		20%		178.75
Total Labour rate				<u>107.25</u>
				107.25
2. Material				
Surface preparation:	Same as in item 17-66			30.25
Priming coat:	Same as in item 17-66			61.00
Finishing coat:				

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
	Paint - vinyl emulsion	2.00	Litre @	218.75	437.50	
	Oil turpentine	0.38	kg. @	105.00	39.90	
	Painting brush 4"	0.025	No. @	350.00	8.75	
	Sand paper	0.50	No. @	20.00	10.00	
					496.15	
	Total				587.40	
	Water charges		1.5%		8.81	
					596.21	
	3. Scaffolding and Sundries		5%		29.81	
	Total of 2 & 3				626.02	
	Contractor's profit & overhead		20%		125.20	
	Total Composite rate per Sq. m.				182.37	182.35
	Item No. 17-68-1					
Sq.m.	Snow ceming of approved make and shade in two coats well scrubbed into the surface including finishing smooth at any height in ground floor and basement (@					
	Detail of Cost of 10 Sq.m.					
	1. Labour					
	Painter	4.00	Hrs @	125.00	500.00	
	Helper	4.00	Hrs @	75.00	300.00	
	Bahishti	0.50	Hrs @	87.50	43.75	
	Total				843.75	
	Contractor's profit & overhead		20%		168.75	
	Total Labour rate				101.25	101.25
	2. Material					
	Paint snowcem	3.25	Kg. @	71.50	232.38	
	Painting brush 4"	1.000	No. @	350.00	8.75	
	Misc.		5%		12.05	
	Water charges		1.5%		3.80	
					256.97	
	3. Scaffolding and Sundries		5%		12.85	
	Total of 2 & 3				269.82	
	Contractor's profit & overhead		20%		53.96	
	Total Composite rate per Sq. m.				133.63	133.65
	Item No. 17-69-1					
Sq.m.	Applying weather resistant paint coating such as ICI weather shield, Berger weather coat or equivalent to interior or exterior walls or ceiling including supplying all labour, materials, scaffoldings and removal of debris etc. @ atleast 3.50 litre per 10 Sq.m.					
	Detail of Cost of 10 Sq.m.					
	1. Labour					
	Painter	6.00	Hrs @	125.00	750.00	
	Helper	6.00	Hrs @	75.00	450.00	
					1200.00	
	Contractor's profit & overhead		20%		240.00	
	Total Labour rate				144.00	144.00
	2. Material					
	Paint weather coat	3.50	Litre @	400.00	1400.00	
	Painting brush 4"	0.25	No. @	350.00	87.50	
	Sand paper	3.00	No. @	20.00	60.00	
	Total				1547.50	
	Water Charges		1.5%		23.21	
					1570.71	
	3. Scaffolding and Sundries		5%		78.54	
	Total of 2 & 3				1649.25	
	Contractor's profit & overhead		20%		329.85	
	Total Composite rate per Sq. m.				341.91	341.90
	Item No. 17-70-1					
Sq.m.	Extra for making band of required size in white wash, colour wash and distemper at any height in ground floor and basement					
	Detail of Cost of 10 Sq.m.					
	1. Labour					
	White washer	2.00	Hrs @	110.00	220.00	
	Painter	2.00	Hrs @	125.00	250.00	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Labourer	4.00	Hrs @ 87.50	350.00
	Total			820.00
	Contractor's profit & overhead		20%	164.00
	Total Labour rate			98.40
				98.40
	2. Scaffolding and sundries		5%	41.00
	Total of 1 & 2			861.00
	Contractor's profit & overhead		20%	172.20
	Total Composite rate per Sq. m.			103.32
				103.30
Sq.m.	Item No. 17-71-1			
	Applying architectural coating such as Rockwall, Durock, Graphaito or equivalent to interior or exterior walls including supplying all labour, materials, scaffoldings and removal of debris etc.			
	Detail of Cost of 10 Sq.m.			
	1. Labour			
	Painter	6.00	Hrs @ 125.00	750.00
	Helper	6.00	Hrs @ 75.00	450.00
				1200.00
	Contractor's profit & overhead		20%	240.00
	Total Labour rate			144.00
				144.00
	2. Material			
	Architectural coating (Rockwall, Durock etc.)	10.50	Sq. m. @ 80.00	840.00
	Sealant	10.50	Sq.m. @ 20.00	210.00
				1050.00
	3. Scaffolding and Sundries		5%	60.00
	Total of 2 & 3			1110.00
	Contractor's profit & overhead		20%	222.00
	Total Composite rate per Sq. m.			277.20
				277.20
	Item No. 17-72			
Cu.m. a)	Extra for Paint of height above 12 ft but upto 24 ft on Ground Floor only			
	Extra for Paint on walls and Ceiling with height above 12 ft but upto 24 ft			15%

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 18-1

Forming, dressing and preparing sub-grade to provide smooth and finished surface for lining in bed and on side slopes on already compacted embankment of canals.

Detail of cost for 10 Sq.m.

Sq.m. a) In bed

1. Labour						
Dresser	2.75	Hrs	@	87.50	240.63	
Labourer	6.00	Hrs	@	87.50	525.00	
Total					765.63	
Contractor's profit & overhead				20%	153.13	
Total Labour rate					91.88	91.90
2. Sundries such as removal of surplus material				5%	38.28	
Contractor's profit & overhead				20%	7.66	
Total Composite rate					96.47	96.45

Sq.m. b) On slopes

1. Labour						
Dresser	4.00	Hrs	@	87.50	350.00	
Labourer	8.00	Hrs	@	87.50	700.00	
Total					1050.00	
Contractor's profit & overhead				20%	210.00	
Total Labour rate					126.00	126.00
2. Sundries such as removal of surplus material				5%	52.50	
Contractor's profit & overhead				20%	10.50	
Total Composite rate					132.30	132.30

Item No. 18-2-1

Cu.m. Trench excavation for profile walls of lining in bed and on slopes below sub-grade level and disposal of excavated material upto 50 ft (15 m.)

1. Labour						
Labourer	3.00	Hrs	@	87.50	262.50	
Contractor's profit & overhead				20%	52.50	
Total Labour rate					31.50	31.50

Item No. 18-3-1

Sq.m. Providing and laying 2" (50 mm) thick stabilizing layer of cement sand mortar(1:30) on slopes including curing. Excavation below sub-grade line will be paid under item 18-2-1.

Detail of cost for 10 Sq.m.

1. Labour						
Mason	4.00	Hrs	@	125.00	500.00	
Labourer	10.00	Hrs	@	87.50	875.00	
Bahishti	2.00	Hrs	@	87.50	175.00	
Total					1550.00	
Contractor's profit & overhead				20%	310.00	
Total Labour rate					186.00	186.00
2. Material						
Mortar	107.6x1/6	17.93	Cu.ft.			
Wastage @ 10%		1.79	Cu.ft.			
		19.73	Cu.ft. =	0.56	Cu.m.	-
Cement OPC	0.55 x 1/30 x 1440	26.82	Kg. @	10.50	281.61	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Sand local	0.56	Cu.m. @ 882.75	493.17
	Water charges		1.5%	11.63
				<u>786.40</u>
	3. Scaffolding and sundries		5%	39.32
	Total of 2 & 3			<u>825.72</u>
	Contractor's profit & overhead		20%	165.14
	Total Composite rate			<u>285.09</u>
				285.10

Item No. 18-4-1

Providing and laying 1/2 " (13 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.

Detail of cost for 10 Sq.m.

Sq.m. a) In bed

1. Labour

Mason	2.50	Hrs @	125.00	312.50
Labourer	6.25	Hrs @	87.50	546.88
Bahishti	1.50	Hrs @	87.50	<u>131.25</u>
Total				990.63
Contractor's profit & overhead			20%	198.13
Total Labour rate				<u>118.88</u>
				118.90

2. Material

Mortar	107.6 x 0.5"/304.8/12	4.59	Cu.ft.	
Wastage @ 10%		<u>0.46</u>	Cu.ft.	
		5.05	Cu.ft. =	0.14 Cu.m.
Mortar 1 : 6		0.14	Cu.m. @	3579.30
Water charges			1.5%	7.67
				<u>519.16</u>
3. Scaffolding and sundries			5%	25.96
Total of 2 & 3				<u>545.12</u>
Contractor's profit & overhead			20%	109.02
Total Composite rate				<u>184.29</u>
				184.30

Sq.m. b) On slopes

1. Labour

Mason	3.00	Hrs @	125.00	375.00
Labourer	7.70	Hrs @	87.50	673.75
Bahishti	2.00	Hrs @	87.50	<u>175.00</u>
Total				1223.75
Contractor's profit & overhead			20%	244.75
Total Labour rate				<u>146.85</u>
				146.85

2. Material

Same as in item 18-4(a) above				519.16
3. Scaffolding and sundries			5%	<u>25.96</u>
Total of 2 & 3				545.12
Contractor's profit & overhead			20%	109.02
Total Composite rate				<u>212.26</u>
				212.25

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 18-5

Providing and laying 1" (25 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.

Detail of cost for 10 Sq.m.

Sq.m. a) In bed

1. Labour

Mason	3.00	Hrs @	125.00	375.00
Labourer	7.50	Hrs @	87.50	656.25
Bahishti	2.00	Hrs @	87.50	175.00
Total				1206.25
Contractor's profit & overhead			20%	241.25
Total Labour rate				144.75

144.75

2. Material

Mortar	107.6 x 1"/304.8	8.83	Cu.ft.	
Wastage @ 10%		0.88	Cu.ft.	
		9.72	Cu.ft. =	0.28 Cu.m.
Mortar 1 : 6		0.28	Cu.m. @	3579.30
Water charges			1.5%	14.78
				999.87

3. Scaffolding and sundries

			5%	49.99
Total of 2 & 3				1049.86
Contractor's profit & overhead			20%	209.97
Total Composite rate				270.73

270.73**Sq.m. b) On slopes**

1. Labour

Mason	3.75	Hrs @	125.00	468.75
Labourer	9.50	Hrs @	87.50	831.25
Bahishti	2.50	Hrs @	87.50	218.75
Total				1518.75
Contractor's profit & overhead			20%	303.75
Total Labour rate				182.25

182.25

2. Material

Same as in item 18-5(a) above

3. Scaffolding and sundries

Total of 2 & 3

Contractor's profit & overhead

Total Composite rate

308.25**Item No. 18-6**

Providing and laying 1.25" (32 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.

Detail of cost for 10 Sq.m.

Sq.m. a) In bed

1. Labour

Mason	3.75	Hrs @	125.00	468.75
Labourer	9.50	Hrs @	87.50	831.25
Bahishti	2.50	Hrs @	87.50	218.75
Total				1518.75
Contractor's profit & overhead			20%	303.75
Total Labour rate				182.25

182.25

2. Material

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Mortar + 10% wastage	107.6 x 1.25"/304.8 x 1.1	12.43 Cu.ft. = 0.35	Cu.m.
	Mortar 1 : 6		0.35 Cu.m. @ 3579.30	1259.79
	Water charges		1.5%	18.90
				<u>1278.69</u>
	3. Scaffolding and sundries		5%	63.93
	Total of 2 & 3			<u>1342.62</u>
	Contractor's profit & overhead		20%	268.52
	Total Composite rate			<u>343.36</u>
				343.35

Sq.m. b) On slopes

1. Labour

Mason 4.50 Hrs @ 125.00 562.50

Labourer 12.00 Hrs @ 87.50 1050.00

Bahishti 2.50 Hrs @ 87.50 218.75

Total 1831.25

Contractor's profit & overhead 20% 366.25

Total Labour rate 219.75

219.75

2. Material Same as in item 18-6(a) above 1278.69

3. Scaffolding and sundries 5% 63.93

Total of 2 & 3 1342.62

Contractor's profit & overhead 20% 268.52

Total Composite rate 380.86

380.85**Item No. 18-7****Providing and laying 1.5" (38 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.**

Detail of cost for 10 Sq.m.

Sq.m. a) In bed

1. Labour

Mason 4.50 Hrs @ 125.00 562.50

Labourer 12.00 Hrs @ 87.50 1050.00

Bahishti 2.50 Hrs @ 87.50 218.75

Total 1831.25

Contractor's profit & overhead 20% 366.25

Total Labour rate 219.75

219.75

2. Material

Mortar + 10% wastage 107.6 x 1.5"/304.8 x 1.1 14.56 Cu.ft. = 0.41 Cu.m.

Mortar 1 : 6 0.41 Cu.m. @ 3579.30 1475.93

Water charges 1.5% 22.14

3. Scaffolding and sundries 5% 74.90

Total of 2 & 3 1572.97

Contractor's profit & overhead 20% 314.59

Total Composite rate 408.51

408.50**Sq.m. b) On slopes**

1. Labour

Mason 5.50 Hrs @ 125.00 687.50

Labourer 12.00 Hrs @ 87.50 1050.00

Bahishti 2.50 Hrs @ 87.50 218.75

Total 1956.25

Contractor's profit & overhead 20% 391.25

Total Labour rate 234.75

234.75

2. Material

Same as in item 18-7(a) above 1498.07

3. Scaffolding and sundries 5% 74.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total of 2 & 3	1572.97	
	Contractor's profit & overhead	20%	314.59
	Total Composite rate		423.50

Item No. 18-8

Providing and laying 1.75" (45 mm) thick cement plaster 1:6 in bed and on slopes of canals including trowel finishing and curing.

Detail of cost for 10 Sq.m.

Sq.m. a) In bed

1. Labour

Mason	5.50	Hrs @	125.00	687.50
Labourer	12.00	Hrs @	87.50	1050.00
Bahishti	2.50	Hrs @	87.50	218.75
Total				1956.25
Contractor's profit & overhead		20%		391.25
Total Labour rate				234.75

234.75

2. Material

Mortar	107.6 x 1.5"/304.8 x 1.1	17.27	Cu.ft. =	0.49	Cu.m.
Mortar 1 : 6		0.49	Cu.m. @	3579.30	1750.82
Water charges			1.5%		26.26
					1777.08

458.65**Sq.m. b) On slopes**

1. Labour

Mason	6.00	Hrs @	125.00	750.00
Labourer	14.00	Hrs @	87.50	1225.00
Bahishti	2.50	Hrs @	87.50	218.75
Total				2193.75
Contractor's profit & overhead		20%		438.75
Total Labour rate				263.25

263.25

2. Material

Same as in item 18-7(a) above

487.15**Item No. 18-9**

Providing and laying 1/2 " (13 mm) thick cement plaster 1:3 in bed and on slopes of canals including trowel finishing and curing.

Detail of cost for 10 Sq.m.

Sq.m. a) In bed

1. Labour

Same as in item 18-4(a)

118.90

118.90

2. Material

Mortar 1 : 3

0.14 Cu.m. @ 6099 871.60

Water charges

1.5% 13.07

884.68

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	3. Scaffolding and sundries	5%	44.23	
	Total of 2 & 3		928.91	
	Contractor's profit & overhead	20%	185.78	
	Total Composite rate		230.37	230.35

Sq.m. b) On slopes

1. Labour				
Same as in item 18-4(b)			146.85	146.85
2. Material				
Same as in item 18-9(a) above			884.68	
3. Scaffolding and sundries	5%		44.23	
Total of 2 & 3			928.91	
Contractor's profit & overhead	20%		185.78	
Total Composite rate			258.32	258.30

Item No. 18-10-1**Sq.m. Providing and spraying asphalt/bitumen membrane 1.65 kg/sq.m. having a thickness of not less than (1/16") 1.6mm on mortar base and/or on lining including heating and cost of hire charges of plant.**

Detail of cost for 10 Sq.m.

1. Labour						
Spray man	2.50	Hrs	@	125.00	312.50	
Labourer	4.00	Hrs	@	87.50	350.00	
Total					662.50	
Contractor's profit & overhead				20%	132.50	
Total Labour rate					79.50	79.50
2. Material						
Bitumen	1.65 x 10	16.50	Kg.			
Wastage	10%	1.65	Kg.			
		18.15	Kg.			
Bitumen 60/70		18.15	Kg.	@	78.00	1415.70
Heating charges				5%	70.79	
Kerosine oil				5%	70.79	
					1557.27	
3. Plant and equipment	Hire charges					
Tar boiler with sprayer		1.50	Hrs	@	125.00	187.50
Tanker		1.50	Hrs	@	700.00	1050.00
						1237.50
Total of 2 & 3						2794.77
Contractor's profit & overhead				20%	558.95	
Total Composite rate					414.87	414.85

Item No. 18-11-1**Sq.m. Providing and spraying asphalt/bitumen membrane 3.30 kg/sq.m. having a thickness of not less than (1/8") 3.2mm on mortar base and/or on lining including heating and cost of hire charges of plant.**

Detail of cost for 10 Sq.m.

1. Labour						
Spray man	3.25	Hrs	@	125.00	406.25	
Labourer	6.00	Hrs	@	87.50	525.00	
Total					931.25	
Contractor's profit & overhead				20%	186.25	
Total Labour rate					111.75	111.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
Bitumen	3.3 x 10	33.00	Kg.	
Wastage	10%	<u>3.30</u>	Kg.	
		36.30	Kg.	-
Bitumen 60/70		36.30	Kg. @	78.00
Heating charges			5%	141.57
Kerosine oil			5%	<u>141.57</u>
				3114.54
3. Plant and equipment	Hire charges			
Tar boiler with sprayer		2.25	Hrs @	125.00
Tanker		2.25	Hrs @	700.00
				<u>1856.25</u>
Total of 2 & 3				4970.79
Contractor's profit & overhead			20%	<u>994.16</u>
Total Composite rate				<u>708.24</u>
				708.25

Item No. 18-12

Providing and laying first class burnt brick tiles 12" x 6" x 2" (305mm x 152mm x 51mm) in lining between profile walls in 1 : 6 cement sand mortar over and including the cost of 3/8" (9.5mm) bedding and vertical joints and including scaffolding, formwork, its removal and curing. The stabilizing layer and cement plaster as laid on site as per design requirements, will be paid separately.

Cu.m. a) In bed

1. Labour						
Mason		7.00	Hrs @	125.00		875.00
Labourer		14.00	Hrs @	87.50		1225.00
Bahishti		2.00	Hrs @	87.50		175.00
Mistri		0.50	Hrs @	110.00		<u>55.00</u>
Total						2330.00
Contractor's profit & overhead				20%		<u>466.00</u>
Total Labour rate						<u>2796.00</u>
						2796.00
2. Material						
Size of tile including mortar = 12.38 x 6.38 x 2.38						
	99/8x51/8x19/8x1/1728	0.108	Cu.ft.			
No. of tiles in Cu.m.	35.31 / 0.1084	326	Nos.			
Wastage	5%	<u>16</u>	Nos.			
		342	Nos.			-
Mortar + 10% wastage	(35.31) - (12x6x2x326x1/1728)	8.97	Cu.ft. =	0.254	Cu.m.	
Brick tiles (2" thick)		342	Nos. @	15.00		5129.00
Mortar 1:6		0.254	Cu.m. @	3579.30		908.76
Water charges			1.5%			<u>90.57</u>
						6128.34
3. Form work, scaffolding & sundries				15%		<u>937.64</u>
Total of 2 & 3						7065.97
Contractor's profit & overhead				20%		<u>1413.19</u>
Total Composite rate						<u>11275.17</u>
						11275.15

Cu.m. b) On slopes

1. Labour						
Mason		7.75	Hrs @	125.00		968.75
Labourer		17.00	Hrs @	87.50		1487.50
Bahishti		2.00	Hrs @	87.50		175.00
Mistri		0.50	Hrs @	110.00		<u>55.00</u>
Total						2686.25
Contractor's profit & overhead				20%		<u>537.25</u>

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate	3223.50	3223.50
	2. Material		
	Same as in item 18-12(a) above	6128.34	
	3. Scaffolding and sundries	5% 306.42	
	Total of 2 & 3	6434.75	
	Contractor's profit & overhead	20% 1286.95	
	Total Composite rate	10945.20	10945.20

Item No. 18-13

Providing and laying first class burnt brick tiles 12" x 6" x 2" (305mm x152mm x 51mm) in lining between profile walls in 1:3 cement sand mortar over and including the cost of 3/8" (9.5mm) bedding and vertical joints and including scaffolding, formwork, its removal and curing. The stabilizing layer and cement plaster as laid on site as per design requirements, will be paid separately.

Cu.m. a) In bed

1. Labour					
Same as in item 18-12 (a) above				2796.00	2796.00
2. Material					
Brick tiles (2" thick)	342	Nos. @	15.00	5129.00	
Mortar 1:3	0.254	Cu.m. @	6099	528.10	
Water charges			1.5%	84.86	
				5741.96	
3. Form work, scaffolding & sundries			7%	419.16	
Total of 2 & 3				6161.12	
Contractor's profit & overhead			20%	1232.22	
Total Composite rate				10189.35	10189.35

Cu.m. b) On slopes

1. Labour					
Same as in item 18-12 (b) above				3223.50	3223.50
2. Material					
Same as in item 18-13(a) above				6128.34	
3. Scaffolding and sundries			5%	306.42	
Total of 2 & 3				6434.75	
Contractor's profit & overhead			20%	1286.95	
Total Composite rate				10945.20	10945.20

Item No. 18-14

Providing and laying first class burnt brick 9" x 4.38" x 2.69" (230mm x110mm x 68mm) in lining between profile walls in 1:6 cement sand mortar over and including the cost of 3/8" (9.5mm) bedding and vertical joints and including scaffolding, formwork, its removal and curing. The stabilizing layer and cement plaster as laid on the site as per design requirements, will be paid separately.

Cu.m. a) In bed

1. Labour					
Same as in item 18-12 (a) above				2796.00	2796.00
2. Material					
Size of brick including mortar = 9.38 x 4.75 x 3.06	0.079	Cu.ft.			
No. of tiles in Cu.m.	35.31 / 0.079	448	Nos.		
Wastage	5%	22	Nos.		
		470	Nos.		
Mortar	(35.31) - (9x4.38x2.69x326/1728)	7.88	Cu.ft.		

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Wastage	10%	0.79	Cu.ft.	-
		8.67	Cu.ft. = 0.245	Cu.m.
Bricks		470	No. @ 10.00	4701.59
Mortar 1 : 6		0.245	Cu.m. @ 3579.30	878.66
Water charges			1.5%	83.70
				5663.94
3. Form work, scaffolding & sundries			5%	283.20
Total of 2 & 3				5947.14
Contractor's profit & overhead			20%	1189.43
Total Composite rate				9932.57
				9932.55

Cu.m. b) On slopes

1. Labour

Same as in item 18-12 (b) above

3223.50

3223.50

2. Material

Same as in item 18-14(a) above

5663.94

3. Scaffolding and sundries

4%

198.24

Total of 2 & 3

5862.18

Contractor's profit & overhead

20%

1172.44

Total Composite rate

10258.12

10258.10**Item No. 18-15**

Providing and laying first class burnt brick 9" x 4.38" x 2.69" (230mm x110mm x 68mm) in lining between profile walls in 1:3 cement sand mortar over and including the cost of 3/8" (9.5mm) bedding and vertical joints and including scaffolding, formwork, its removal and curing. The stabilizing layer and cement plaster as laid on site as per design requirements, will be paid separately.

Cu.m. a) In bed

1. Labour

Same as in item 18-12 (a) above

2796.00

2796.00

2. Material

Bricks

470

No. @

10.00

4701.59

Mortar 1:3

0.245

Cu.m. @

6099.30

510.60

Water charges

1.5%

78.18

5290.37

3. Form work, scaffolding & sundries

7%

343.87

Total of 2 & 3

5634.25

Contractor's profit & overhead

20%

1126.85

Total Composite rate

9557.09

9557.10**Cu.m. b) On slopes**

1. Labour

Same as in item 18-12 (b) above

3223.50

3223.50

2. Material

Same as in item 18-15(a) above

5290.37

3. Scaffolding and sundries

5%

264.52

Total of 2 & 3

5554.89

Contractor's profit & overhead

20%

1110.98

Total Composite rate

9889.37

9889.35

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 18-16

Providing and laying in situ cement concrete using crushed aggregate 3/4" (19mm) thick and down gauge in canal lining including scaffolding, formwork, its removal and curing.

a) In bed**Cu.m. i) Cement concrete lining 1 : 2 : 4**

1. Labour

Mason	2.75	Hrs @	125.00	343.75
Labourer	17.00	Hrs @	87.50	1487.50
Bahishti	1.00	Hrs @	87.50	87.50
Mistri	0.50	Hrs @	110.00	55.00
Total				1973.75
Contractor's profit & overhead			20%	394.75
Total Labour rate				2368.50

2368.50

2. Material

Same as in item 5-8(c) 4971.92

3. Plant and equipment

Same as in item 5-5(a) 95.00

4. Form work, scaffolding & sundries 15% 1056.10

Total of 2, 3 & 4 6123.03

Contractor's profit & overhead 20% 1224.61

Total Composite rate 9716.13

9716.15**ii) Cement concrete lining 1 : 3 : 6**

1. Labour

Same as in item 18-16(a) 2368.50

2368.50

2. Material

Same as in item 5-8(d) 4379.69

3. Plant and equipment

Same as in item 5-5(a) 214.00

4. Form work, scaffolding & sundries 15% 1044.33

Total of 2, 3 & 4 5638.02

Contractor's profit & overhead 20% 1127.60

Total Composite rate 9134.12

9134.10**Cu.m. iii) Cement concrete lining 1 : 4 : 8**

1. Labour

Same as in item 18-16(a) 2368.50

2368.50

2. Material

Same as in item 5-8(e) 3682.80

3. Plant and equipment

Same as in item 5-5(a) 214.00

4. Form work, scaffolding & sundries 15% 939.79

Total of 2, 3 & 4 4836.59

Contractor's profit & overhead 20% 967.32

Total Composite rate 8172.41

8172.40

Unit	Description	Component Cost		Unit Rate
				(Rs)
b) On slopes				
Cu.m.	i) Cement concrete lining 1 : 2 : 4			
	1. Labour			
	Mason	3.50	Hrs @ 125.00	437.50
	Labourer	19.75	Hrs @ 87.50	1728.13
	Bahishti	1.00	Hrs @ 87.50	87.50
	Mistri	0.50	Hrs @ 110.00	55.00
	Total			2308.13
	Contractor's profit & overhead		20%	461.63
	Total Labour rate			2769.75
				2769.75
	2. Material			
	Same as in item 5-8(c)			4971.92
	3. Plant and equipment			
	Same as in item 5-5(a)			214.00
	4. Form work, scaffolding & sundries		15%	1124.11
	Total of 2, 3 & 4			6310.03
	Contractor's profit & overhead		20%	1262.01
	Total Composite rate			10341.79
				10341.80
	ii) Cement concrete lining 1 : 3 : 6			
	1. Labour			
	Same as in item 18-16(b)			2769.75
				2769.75
	2. Material			
	Same as in item 5-8(d)			4379.69
	3. Plant and equipment			
	Same as in item 5-5(a)			214.00
	4. Form work, scaffolding & sundries		15%	1104.52
	Total of 2, 3 & 4			5698.21
	Contractor's profit & overhead		20%	1139.64
	Total Composite rate			9607.60
				9607.60
	iii) Cement concrete lining 1 : 4 : 8			
Cu.m.	1. Labour			
	Same as in item 18-16(b)			2769.75
				2769.75
	2. Material			
	Same as in item 5-8(e)			3682.80
	3. Plant and equipment			
	Same as in item 5-5(a)			214.00
	4. Form work, scaffolding & sundries		15%	999.98
	Total of 2, 3 & 4			4896.78
	Contractor's profit & overhead		20%	979.36
	Total Composite rate			8645.88
				8645.90

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 19-1				
Cu.m.	a) Cutting pilchi, frash or sarkanda including carriage within one km.			
	1. Labour			
	Labourer	2.50	Hrs @ 87.50	218.75
	Contractor's profit & overhead		20%	43.75
	Total Labour rate			<u>262.50</u>
				262.50
Cu.m.	b) Extra for every additional 1/2 km. or part thereof.			
	1. Labour			
	Labourer	0.50	Hrs @ 87.50	43.75
	Contractor's profit & overhead		20%	8.75
	Total Labour rate			<u>52.50</u>
				52.50
Item No.19-2-1				
Sq.m.	Weaving mattresses.			
	1. Labour			
	Labourer	0.50	Hrs @ 87.50	43.75
	Contractor's profit & overhead		20%	8.75
	Total Labour rate			<u>52.50</u>
				52.50
Item No. 19-3-1				
Each	Supplying and filling old jute bags 1.25 Cu.ft. (0.035Cu.m.) capacity with sand or earth including sewing and stacking on dry surface.			
	1. Labour			
	Labourer	0.25	Hrs @ 87.50	21.88
	Contractor's profit & overhead		20%	4.38
	Total Labour rate			<u>26.25</u>
				26.25
	2. Materials			
	Jute bag - old	1.00	No. @ 35.00	35.00
	Sand		15%	5.25
	Total			<u>66.50</u>
	Contractor's profit & overhead		20%	13.30
	Total Composite rate			<u>106.05</u>
				106.05
Item No. 19-4-1				
Each	Supplying and filling old jute bags 1.25 Cu.ft. (0.035Cu.m.) capacity with sand or earth including sewing and laying in position under water.			
	1. Labour			
	Labourer	0.50	Hrs @ 87.50	43.75
	Contractor's profit & overhead		20%	8.75
	Total Labour rate			<u>52.50</u>
				52.50
	2. Materials			
	Same as in item 19-3-1			66.50
	Contractor's profit & overhead		20%	13.30
	Total Composite rate			<u>132.30</u>
				132.30

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 19-5-1				
Each	Supplying & filling new jute bags 4 to 5 Cu.ft. (0.11 to 0.14Cu.m.) capacity with sand or earth including sewing and stacking on dry surface			
	1. Labour			
	Labourer	1.00	Hrs @ 87.50	87.50
	Contractor's profit & overhead		20%	17.50
	Total Labour rate			<u>105.00</u>
				105.00
	2. Materials			
	Jute bag - new	1.00	No. @ 70.00	70.00
	Sand		15%	10.50
	Total			<u>185.50</u>
	Contractor's profit & overhead		20%	37.10
	Total Composite rate			<u>327.60</u>
				327.60
Item No. 19-6-1				
Each	Supplying & filling new jute bags 4 to 5 Cu.ft. (0.11 to 0.14Cu.m.) capacity with sand or earth including sewing and laying in position under water.			
	1. Labour			
	Labourer	1.50	Hrs @ 87.50	131.25
	Contractor's profit & overhead		20%	26.25
	Total Labour rate			<u>157.50</u>
				157.50
	2. Materials			
	Same as in item 19-5-1			185.50
	Contractor's profit & overhead		20%	37.10
	Total Composite rate			<u>380.10</u>
				380.10
Item No. 19-7				
Carriage of jute bags 1.25 Cu.ft.(0.035 cu.m.) capacity filled with sand or earth.				
%Nos.	a) First 100 ft.(30 m.) (1st chain)			
	1. Labour			
	Labourer	2.50	Hrs @ 87.50	218.75
	Contractor's profit & overhead		20%	43.75
	Total Labour rate			<u>262.50</u>
				262.50
%Nos. per 30m.	b) Second 100 ft.(30 m.) or part thereof to 400 ft.(120 m.) per 30m. (2nd chain to 4th chain)			
	1. Labour			
	Labourer	1.00	Hrs @ 87.50	87.50
	Contractor's profit & overhead		20%	17.50
	Total Labour rate			<u>105.00</u>
				105.00
%Nos. per 30m.	c) Fifth 100 ft. (30 m.) or part thereof (5th chain)			
	1. Labour			
	Labourer	0.50	Hrs @ 87.50	43.75
	Contractor's profit & overhead		20%	8.75
	Total Labour rate			<u>52.50</u>
				52.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Item No. 19-8			
Carriage of jute bags 4 to 5 Cu.ft. (0.11 to 0.14 cu.m.) capacity filled with sand or earth.			
%Nos.	a) First 100 ft. (30 m.) (1st chain)		
	1. Labour		
	Total Labour rate	Four times of item 19-7(a)	1,050.00
			1050.00
%Nos.	b) Second 100 ft.(30 m.) or part thereof to 400 ft.(120 m.) per 30 m.(2nd chain to 4th chain)		
per 30m	1. Labour		
	Total Labour rate	Four times of item 19-7(b)	420.00
			420.00
%Nos.	c) Fifth 100 ft.(30 m.) or part thereof (5th chain)		
per 30m	1. Labour		
	Total Labour rate	Four times of item 19-7(c)	210.00
			210.00
Item No.19-9			
Rolling mattresses to river edge and floating after unrolling.			
Sq.m.	a) Area of mattresses upto 2000 Sq.ft.(186 Sq.m.)		
	1. Labour		
	Labourer	7.00 Hrs @ 87.50	612.50
	Contractor's profit & overhead	20%	122.50
	Total Labour rate		735.00
			735.00
Sq.m.	b) Area of mattresses above 2000 upto 2500 Sq.ft.(186 to 232 Sq.m.)		
	1. Labour		
	Labourer	10.00 Hrs @ 87.50	875.00
	Contractor's profit & overhead	20%	175.00
	Total Labour rate		1,050.00
			1050.00
Sq.m.	c) Area of mattresses above 2500 Sq.ft.(232 Sq.m.)		
	1. Labour		
	Labourer	12.00 Hrs @ 87.50	1,050.00
	Contractor's profit & overhead	20%	210.00
	Total Labour rate		1,260.00
			1260.00
Item No. 19-10-1			
%Nos.	Sewing empty cement bags in sheets.		
	1. Labour		
	Labourer	10.00 Hrs @ 87.50	875.00
	Contractor's profit & overhead	20%	175.00
	Total Labour rate		1,050.00
			1050.00
	2. Materials		
	50% of labour cost		437.50
	Contractor's profit & overhead	20%	87.50
	Total Composite rate		1,575.00
			1575.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 19-11-1				
Cu.m.	Making compact pilchi, frash or sarkanda round bundles of specified size for the work			
	1. Labour			
	Labourer	5.00	Hrs @ 87.50	437.50
	Contractor's profit & overhead		20%	87.50
	Total Labour rate			<u>525.00</u> 525.00
	2. Materials			
	25% of labour cost			109.38
	Contractor's profit & overhead		20%	21.88
	Total Composite rate			<u>656.25</u> 656.25
Item No. 19-12-1				
Cu.m.	Launching round bundles as in item No.19-11-1 in canal or in river and placing in position.			
	1. Labour			
	Labourer	3.50	Hrs @ 87.50	306.25
	Contractor's profit & overhead		20%	61.25
	Total Labour rate			<u>367.50</u> 367.50
Item No. 19-13				
Collecting and stacking at site of work within 500 ft. (150 m or Five chains)				
Cu.m.	a) Boulders and/or stones 9" (230 mm) and above.			
	1. Labour			
	Labourer	10.00	Hrs @ 87.50	875.00
	Contractor's profit & overhead		20%	175.00
	Total Labour rate			<u>1,050.00</u> 1050.00
Cu.m.	b) Oversize shingle 3" to 9" (75 mm to 230 mm).			
	1. Labour			
	Labourer	6.50	Hrs @ 87.50	568.75
	Contractor's profit & overhead		20%	113.75
	Total Labour rate			<u>682.50</u> 682.50
Cu.m.	c) Mixed graded shingle			
	1. Labour			
	Labourer	8.00	Hrs @ 87.50	700.00
	Contractor's profit & overhead		20%	140.00
	Total Labour rate			<u>840.00</u> 840.00
Item No. 19-14-1				
Each	Supplying Munj or Patha Trungers 6" (150 mm) mesh, capacity 3 Cu.ft (0.085 Cu.m) or one Sq.m. in size.			
	1. Labour			
	Labourer	1.00	Hrs @ 87.50	87.50
	Contractor's profit & overhead		20%	17.50
	Total Labour rate			<u>105.00</u> 105.00
	2. Materials			
	Munj ban	1.00	Kg. @ 50.00	50.00
	Contractor's profit & overhead		20%	10.00
	Total Composite rate			<u>165.00</u> 165.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 19-15-1				
Cu.m.	Providing and laying Crush Aggregate on top of bund, including handling of material within 300 ft. (90m).			
	1. Labour			
	Labourer	3.00	Hrs @ 87.50	262.50
	Contractor's profit & overhead		20%	52.50
	Total Labour rate			<u>315.00</u> 315.00
	2. Materials			
	Crush 1-1/2" & down gauge	1.10	Cu.m. @ 927.00	1,019.70
	Contractor's profit & overhead		20%	203.94
	Total Composite rate			<u>1,538.64</u> 1538.65
Item No. 19-16				
Providing and weaving G.I. wire netting for wire crates including siding and partition to make crates.				
Detail of cost for 10 Sq.m.				
	a) 6" (150 mm) mesh			
Sq.m.	i) 15 SWG (1.69 mm) wire			
	1. Labour			
	Black smith	6.00	Hrs @ 112.00	672.00
	Labourer	6.00	Hrs @ 87.50	525.00
	Contractor's profit & overhead		20%	239.40
	Total Labour rate			<u>143.64</u> 143.65
	2. Materials			
	G.I. wire gauge	5.00	Kg @ 130.00	650.00
	Contractor's profit & overhead		20%	130.00
	Total Composite rate			<u>221.64</u> 221.65
Sq.m.	ii) 10 SWG (2.54 mm) wire			
	1. Labour			
	Black smith	6.25	Hrs @ 112.00	700.00
	Labourer	6.25	Hrs @ 87.50	546.88
	Contractor's profit & overhead		20%	249.38
	Total Labour rate			<u>149.63</u> 149.65
	2. Materials			
	G.I. wire gauge	11.50	Kg @ 130.00	1,495.00
	Contractor's profit & overhead		20%	299.00
	Total Composite rate			<u>329.03</u> 329.05
Sq.m.	iii) 8 SWG (3.18 mm) wire			
	1. Labour			
	Total Labour rate	Same as in item 19-16(a)2		149.65
	2. Materials			
	G.I. wire gauge	19.00	Kg @ 130.00	2,470.00
	Contractor's profit & overhead		20%	494.00
	Total Composite rate			<u>446.05</u> 446.05

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
b) 4" (100 mm) mesh				
Sq.m.	i) 15 SWG (1.69 mm) wire			
	1. Labour			
	Black smith	8.00	Hrs @ 112.00	896.00
	Labourer	8.00	Hrs @ 87.50	700.00
	Contractor's profit & overhead		20%	319.20
	Total Labour rate			191.52
				191.50
	2. Materials			
	G.I. wire gauge	8.00	Kg @ 130.00	1,040.00
	Contractor's profit & overhead		20%	208.00
	Total Composite rate			316.32
				316.30
Sq.m.	ii) 10 SWG (2.54 mm) wire			
	1. Labour			
	Black smith	8.50	Hrs @ 112.00	952.00
	Labourer	8.50	Hrs @ 87.50	743.75
	Contractor's profit & overhead		20%	339.15
	Total Labour rate			203.49
				203.50
	2. Materials			
	G.I. wire gauge	17.00	Kg @ 130.00	2,210.00
	Contractor's profit & overhead		20%	442.00
	Total Composite rate			468.69
				468.70
Sq.m.	iii) 8 SWG (3.18 mm) wire			
	1. Labour			
	Total Labour rate	Same as in item 19-16(b)2		203.50
				203.50
	2. Materials			
	G.I. wire gauge	27.00	Kg @ 130.00	3,510.00
	Contractor's profit & overhead		20%	702.00
	Total Composite rate			624.70
				624.70
Item No. 19-17				
Supplying and dumping without boat within a lead of 300 ft (90m or three chains).				
(No additional cost to be provided for voids)				
Cu.m.	a) Stone or boulders			
	1. Labour			
	Labourer	5.50	Hrs @ 87.50	481.25
	Contractor's profit & overhead		20%	96.25
	Total Labour rate			577.50
				577.50
	2. Material			
	Stone	1.10	Cu.m. @ 706.20	776.82
	Contractor's profit & overhead		20%	155.36
	Total Composite rate			1,509.68
				1509.70
Cu.m.	b) Shingle or spawl			
	1. Labour			
	Total Labour rate	Same as in item 19-17(a) above		577.50
				577.50
	2. Material			
	Crush 1-1/2" & down gauge	1.10	Cu.m. @ 927.00	1,019.70
	Contractor's profit & overhead		20%	203.94
	Total Composite rate			1,801.14
				1801.15
Cu.m.	c) Brick bats			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	1. Labour			
	Labourer	4.25	Hrs @ 87.50	371.88
	Contractor's profit & overhead		20%	74.38
	Total Labour rate			446.25
				446.25
	2. Material			
	Brick/ Stone bats	1.10	Cu.m. @ 300.00	330.00
	Contractor's profit & overhead		20%	66.00
	Total Composite rate			842.25
				842.25
	Item No. 19-18			
	Supplying and dumping by boat within a lead of 300 ft (90m or three chains). (No additional cost to be provided for voids)			
Cu.m.	a) Stone or boulders			
	1. Labour			
	Labourer	6.50	Hrs @ 87.50	568.75
	Boatman	3.00	Hrs @ 125.00	375.00
	Contractor's profit & overhead		20%	188.75
	Total Labour rate			1,132.50
				1132.50
	2. Material			
	Stone	1.10	Cu.m. @ 706.20	776.82
	Contractor's profit & overhead		20%	155.36
	Total Composite rate			2,064.68
				2064.70
Cu.m.	b) Shingle or spawl			
	1. Labour			
	Total Labour rate		Same as in item 19-18(a) above	1,132.50
				1132.50
	2. Material			
	Crush 1-1/2" & down gauge	1.10	Cu.m. @ 927.00	1,019.70
	Contractor's profit & overhead		20%	203.94
	Total Composite rate			2,356.14
				2356.15
Cu.m.	c) Brick bats			
	1. Labour			
	Labourer	3.50	Hrs @ 87.50	306.25
	Boatman	3.00	Hrs @ 125.00	375.00
	Contractor's profit & overhead		20%	136.25
	Total Labour rate			817.50
				817.50
	2. Material			
	Brick/ Stone bats	1.10	Cu.m. @ 300.00	330.00
	Contractor's profit & overhead		20%	66.00
	Total Composite rate			1,213.50
				1213.50
	Item No. 19-19			
Cu.m.	Providing and filling brick bats into crates, the cost of crates will be paid for separately			
	1. Labour			
	Labourer	7.50	Hrs @ 87.50	656.25
	Contractor's profit & overhead		20%	131.25
	Total Labour rate			787.50
				787.50
	2. Material			
	Brick/ Stone bats	1.00	Cu.m. @ 300.00	300.00
	Contractor's profit & overhead		20%	60.00
	Total Composite rate			1,147.50
				1147.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 19-20

Cu.m. Supplying, filling and packing brick into crates by hand, the cost of crates will be paid for separately

Volume of brick	9"x35/8x43/16x1/1728	0.06				
No. of bricks	35.31/0.061	576.60				
1. Labour						
Labourer		9.00	Hrs @	87.50	787.50	
Contractor's profit & overhead				20%	157.50	
Total Labour rate					945.00	945.00
2. Material						
Bricks		576.60	No. @	0.01	5.77	
Contractor's profit & overhead				20%	1.15	
Total Composite rate					951.92	951.90

Item No. 19-21

Supplying and filling in wire crates including sewing the crates. The cost of crates shall be paid for separately. Semi-dressed with hand packing.

Cu.m. a) Stone or boulders

1. Labour						
Labourer		9.50	Hrs @	87.50	831.25	
Contractor's profit & overhead				20%	166.25	
Total Labour rate					997.50	997.50
2. Material						
Stone		1.10	Cu.m. @	706.20	776.82	
Contractor's profit & overhead				20%	155.36	
Total Composite rate					1,929.68	1929.70

Cu.m. b) Shingle or spawl

1. Labour						
Total Labour rate	Same as in item 19-21(a) above				997.50	997.50
2. Material						
Crush 1-1/2" & down gauge		1.10	Cu.m. @	927.00	1,019.70	
Contractor's profit & overhead				20%	203.94	
Total Composite rate					2,221.14	2221.15

Item No. 19-22

Cu.m. Extra for anchoring boats for dumping by boats and or tipping crates.

1. Labour						
Labourer		1.25	Hrs @	87.50	109.38	
Contractor's profit & overhead				20%	21.88	
Total Labour rate					131.25	131.25

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 19-23				
Cu.m.	Extra for tipping crates over and above item 19-22.			
	1. Labour			
	Labourer	5.00	Hrs @ 87.50	437.50
	Contractor's profit & overhead		20%	87.50
	Total Labour rate			525.00
				525.00
Item No. 19-24				
Sq.m.	Pilchi revetment including carriage within one kilometre.			
	Detail of cost for 10			
	1. Labour			
	Labourer	8.00	Hrs @ 87.50	700.00
	Contractor's profit & overhead		20%	140.00
	Total Labour rate			84.00
				84.00
	2. Material			
	Wooden pegs	11.00	No. @ 12.00	132.00
	Pilchi	6.00	Cu.m. @ 71.50	429.00
	Contractor's profit & overhead		20%	112.20
	Total Composite rate			151.32
				151.30
Item No. 19-25				
Sq.m.	Surface protection with pilchi mattresses including carriage upto one kilometre.			
	Detail of cost for 10			
	1. Labour			
	Labourer	20.00	Hrs @ 87.50	1,750.00
	Contractor's profit & overhead		20%	350.00
	Total Labour rate			210.00
				210.00
	2. Material			
	Pilchi	0.60	Cu.m. @ 71.50	42.90
	Contractor's profit & overhead		20%	8.58
	Total Composite rate			215.15
				215.15
Item No. 19-26				
Sq.m.	Supplying and laying pilchi, sarkanda or frash pitching on slopes within one Km. Including supplying and driving of pegs 1.5 ft (0.5m.) long sharpened at one end and tying with wire or munj/patha band. Cost of placing earth between rolls shall be paid for separately as earthwork.			
	Detail of cost for 10			
	1. Labour			
	Carpenter	0.83	Hrs @ 125.00	103.75
	Helper	0.83	Hrs @ 75.00	62.25
	Labourer	12.00	Hrs @ 87.50	1,050.00
	Contractor's profit & overhead		20%	210.00
	Total Labour rate			142.60
				142.60
	2. Material			
	Wooden pegs	50.00	No. @ 12.00	600.00
	Pilchi	6.50	Cu.m. @ 71.50	464.75
	Munj ban	5.00	Kg. @ 50.00	250.00
	Contractor's profit & overhead		20%	262.95
	Total Composite rate			300.37
				300.35

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 19-27

Sq.m. Constructing groynes upto 5 ft.(1.5m) height, with single row of wooden vertical stakes 7" to 12" (175mm to 300mm.) dia., 12" (0.3m) apart, average lead one Km. The measurement shall be made for the area of elevation on one face only.

Detail of cost for 10 Sq.m.

1. Labour

Skilled labourer	2.50	Hrs	@	90.00	225.00	
Labourer	2.50	Hrs	@	87.50	218.75	
Contractor's profit & overhead				20%	88.75	
Total Labour rate					53.25	53.25

2. Material

Stakes	50.00	No.	@	48.00	2,400.00	
Coir/Patha ban				0.15	360.00	
Contractor's profit & overhead				20%	552.00	
Total Composite rate					384.45	384.45

Item No. 19-28

Sq.m. Constructing groynes upto 10 ft. (3m) height, with double row of wooden vertical stakes 7" to 12" (175mm to 300mm) dia., 12" (0.3m) apart, average lead one Km. The measurement shall be made for the area of elevation on one face only.

Detail of cost for 10 Sq.m.

1. Labour

Skilled labourer	4.00	Hrs	@	90.00	360.00	
Labourer	5.00	Hrs	@	87.50	437.50	
Contractor's profit & overhead				20%	159.50	
Total Labour rate					95.70	95.70

2. Material

Stakes	34.00	No.	@	48.00	1,632.00	
Coir/Patha ban				0.15	244.80	
Contractor's profit & overhead				20%	375.36	
Total Composite rate					320.92	320.90

Item No. 19-29

Cu.m. Providing and laying stone pitching and/or filling dry hand packed as filling behind retaining walls and/or in pitching or aprons.

1. Labour

Skilled labourer	3.00	Hrs	@	90.00	270.00	
Labourer	3.00	Hrs	@	87.50	262.50	
Contractor's profit & overhead				20%	106.50	
Total Labour rate					639.00	639.00

2. Material

Stone	1.00	Cu.m.	@	706.20	706.20	
Contractor's profit & overhead				20%	141.24	
Total Composite rate					1,486.44	1486.45

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 19-30

Cu.m. a) Providing and laying stone pitching with hammer dressed stones on surface laid in courses including lift of 1.5 m and lead upto 30m.

1. Labour

Mason	5.00	Hrs @	125.00	625.00	
Labourer	8.00	Hrs @	87.50	700.00	
Contractor's profit & overhead			20%	265.00	
Total Labour rate				1,590.00	1590.00

2. Material

Stone for pitching	1.20	Cu.m. @	529.65	635.58	
Contractor's profit & overhead			20%	127.12	
Total Composite rate				2,352.70	2352.70

Cu.m. b) Extra for every 5 ft of additional lift

1. Labour

Labourer	2.00	Hrs @	87.50	175.00	
Contractor's profit & overhead			20%	35.00	
Total Labour rate				210.00	210.00

Item No. 19-31

Providing and laying stone pitching for top layer only.

Cu.m. a) On slope

1. Labour

Mason	4.00	Hrs @	125.00	500.00	
Labourer	8.00	Hrs @	87.50	700.00	
Contractor's profit & overhead			20%	240.00	
Total Labour rate				1,440.00	1440.00

2. Material

Stone for pitching	1.20	Cu.m. @	529.65	635.58	
Contractor's profit & overhead			20%	127.12	
Total Composite rate				2,202.70	2202.70

Cu.m. b) On level

1. Labour

Mason	4.00	Hrs @	125.00	500.00	
Labourer	5.00	Hrs @	87.50	437.50	
Contractor's profit & overhead			20%	187.50	
Total Labour rate				1,125.00	1125.00

2. Material

Stone for pitching	1.20	Cu.m. @	529.65	635.58	
Contractor's profit & overhead			20%	127.12	
Total Composite rate				1,887.70	1887.70

Item No. 19-32

Providing and filling stone spawl. (No additional cost to be provided for voids)

Cu.m. a) On slope

1. Labour

Labourer	6.00	Hrs @	87.50	525.00	
Contractor's profit & overhead			20%	105.00	
Total Labour rate				630.00	630.00

2. Material

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Stone sprawl	1.20	Cu.m. @ 1165.23	1,398.28
	Contractor's profit & overhead		20%	279.66
	Total Composite rate			<u>2,307.93</u>
				2307.95
Cu.m.	b) On level			
	1. Labour			
	Labourer	4.00	Hrs @ 87.50	350.00
	Contractor's profit & overhead		20%	70.00
	Total Labour rate			<u>420.00</u>
				420.00
	2. Material			
	Stone for pitching	1.20	Cu.m. @ 529.65	635.58
	Contractor's profit & overhead		20%	127.12
	Total Composite rate			<u>1,182.70</u>
				1182.70
	Item No. 19-33			
	Providing and laying stone pitching by hand packing with surface levelled off to the correct section and voids filled in 1:8 cement sand mortar in floors of bridges, along banks and/or in aprons. (No additional cost to be provided for voids)			
Cu.m.	a) Top layer on slope			
	1. Labour			
	Mason	6.00	Hrs @ 125.00	750.00
	Labourer	14.00	Hrs @ 87.50	1,225.00
	Contractor's profit & overhead		20%	395.00
	Total Labour rate			<u>2,370.00</u>
				2370.00
	2. Material			
	Stone	1.20	Cu.m. @ 529.65	635.58
	Sand local	0.27	Cu.m. @ 882.75	238.34
	Cement OPC	48.50	Kgs. @ 10.50	509.25
				<u>1,383.17</u>
	3. Equipment			
	Grouting equipment		5%	167.91
	Total of 2 & 3			<u>1,551.08</u>
	Contractor's profit & overhead		20%	310.22
	Total Composite rate			<u>4,231.30</u>
				4231.30
Cu.m.	b) Top layer on level			
	1. Labour			
	Mason	6.00	Hrs @ 125.00	750.00
	Labourer	12.00	Hrs @ 87.50	1,050.00
	Contractor's profit & overhead		20%	360.00
	Total Labour rate			<u>2,160.00</u>
				2160.00
	2. Material			
	Same as in item 19-33 (a)			1,383.17
	3. Equipment			
	Grouting equipment		5%	159.16
	Total of 2 & 3			<u>1,542.33</u>
	Contractor's profit & overhead		20%	308.47
	Total Composite rate			<u>4,010.80</u>
				4010.80
Cu.m.	c) Stone pitching and/or filling on slope or on level surface other than top layer.			
	1. Labour			
	Mason	3.50	Hrs @ 125.00	437.50
	Labourer	5.50	Hrs @ 87.50	481.25
	Contractor's profit & overhead		20%	183.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		1,102.50	1102.50
	2. Material			
	Same as in item 19-33 (a)		1,383.17	
	Contractor's profit & overhead	20%	276.63	
	Total Composite rate		<u>2,762.31</u>	2762.30
	Item No. 19-34			
	Grouting stone pitching.			
	Detail of cost for 10 Sq.m.			
Sq.m.	a) Cement sand mortar 1 : 3			
	1. Labour			
	Mason	5.00 Hrs @	125.00	625.00
	Labourer	15.00 Hrs @	87.50	1,312.50
	Bahishti	1.50 Hrs @	87.50	131.25
			<u>2,068.75</u>	
	Contractor's profit & overhead	20%	413.75	
	Total Labour rate		<u>248.25</u>	248.25
	2. Material			
	Cement OPC	328.00 Kgs. @	10.50	3,444.00
	Sand local	0.23 Cu.m. @	882.75	198.62
			<u>3,642.62</u>	
	Water charges	1.5%	54.64	
			<u>3,697.26</u>	
	3. Equipment			
	Grouting equipment	5%	184.86	
	Total of 2 & 3		<u>3,882.12</u>	
	Contractor's profit & overhead	20%	776.42	
	Total Composite rate		<u>714.10</u>	714.10
Sq.m.	b) Cement sand mortar 1 : 8			
	1. Labour			
	Total Labour rate	Same as in item 19-34(a)	248.25	248.25
	2. Material			
	Cement OPC	147.50 Kgs. @	10.50	1,548.75
	Sand local	0.27 Cu.m. @	882.75	238.34
			<u>1,787.09</u>	
	Water charges	1.5%	26.81	
			<u>1,813.90</u>	
	3. Equipment			
	Grouting equipment	5%	103.44	
	Total of 2 & 3		<u>1,917.34</u>	
	Contractor's profit & overhead	20%	383.47	
	Total Composite rate		<u>478.33</u>	478.35
	Item No. 19-35-1			
Sq.m.	Sand grouting in stone apron with high pressure hose.			
	Detail of cost for 10			
	1. Labour			
	Mason	2.00 Hrs @	125.00	250.00
	Labourer	6.00 Hrs @	87.50	525.00
	Contractor's profit & overhead	20%	155.00	
	Total Labour rate		<u>93.00</u>	93.00
	2. Material			
	Sand local	0.50 Cu.m. @	882.75	441.38

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

3. Equipment			
Grouting equipment	5%	60.82	
Total of 2 & 3		502.19	
Contractor's profit & overhead	20%	100.44	
Total Composite rate		153.26	153.25

Item No. 19-36**Sq.m. a) Grouting or filling stone pitching with shingle/bajri.**

Detail of cost for 10 Sq.m.

1. Labour

Total Labour rate	Same as in item 19-35-1	93.00	93.00
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2. Material

Crush 3/4" & down gauge	0.30	Cu.m. @	1421.40	426.42
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3. Equipment

Grouting equipment	5%	25.97
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Total of 2 & 3		452.39
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Contractor's profit & overhead	20%	90.48
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Total Composite rate		147.29	147.30
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Sq.m. b) Grouting or filling stone pitching with P.C.C 1:3:6

Detail of Cost for 10

1. Labour

Total Labour rate	Same as in item 19-35	93.00	93.00
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2. Material

Rate same as in item 5-3(b)	0.20	Cu.m @	1421.40	284.28
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3. Equipment

Grouting equipment	5%	18.86
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Total of 2 & 3		303.14
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Contractor's profit & overhead	20%	60.63
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Total Composite rate		129.38	129.40
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Item No. 19-37-1**Cu.m. Removing stone and repitching (hand packed) on slopes or level including making good any damage to slopes and or level portion.**

1. Labour

Mason	1.25	Hrs @	125.00	156.25
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Labourer	7.50	Hrs @	87.50	656.25
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Contractor's profit & overhead	20%	162.50
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Total Labour rate		975.00	975.00
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Add extra for making good the damaged portion	1.0%	9.75
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Contractor's profit & overhead	20%	1.95
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Total Composite rate		986.70	986.70
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 19-38-1				
Cu.m.	Grouting jharies between blocks with Crush Aggregate.			
	1. Labour			
	Mason	0.75	Hrs @ 125.00	93.75
	Labourer	2.50	Hrs @ 87.50	218.75
	Contractor's profit & overhead		20%	62.50
	Total Labour rate			<u>375.00</u> 375.00
	2. Material			
	Crush 3/4" & down gauge	0.20	Cu.m. @ 1421.40	284.28
	Contractor's profit & overhead		20%	56.86
	Total Composite rate			<u>716.14</u> 716.15
Item No. 19-39				
Breaking stone into spawls and stacking.				
Cu.m.	a) 3" (75 mm) and down gauge			
	1. Labour			
	Labourer	8.00	Hrs @ 87.50	700.00
	Contractor's profit & overhead		20%	140.00
	Total Labour rate			<u>840.00</u> 840.00
Cu.m.	b) 2.5" (64 mm) and down gauge			
	1. Labour			
	Labourer	9.00	Hrs @ 87.50	787.50
	Contractor's profit & overhead		20%	157.50
	Total Labour rate			<u>945.00</u> 945.00
Cu.m.	c) 2" (50 mm) and down gauge			
	1. Labour			
	Labourer	10.00	Hrs @ 87.50	875.00
	Contractor's profit & overhead		20%	175.00
	Total Labour rate			<u>1,050.00</u> 1050.00
Cu.m.	d) 1.5" (37 mm) and down gauge			
	1. Labour			
	Labourer	11.00	Hrs @ 87.50	962.50
	Contractor's profit & overhead		20%	192.50
	Total Labour rate			<u>1,155.00</u> 1155.00
Cu.m.	e) 1" (25 mm) and down gauge			
	1. Labour			
	Labourer	12.00	Hrs @ 87.50	1,050.00
	Contractor's profit & overhead		20%	210.00
	Total Labour rate			<u>1,260.00</u> 1260.00
Cu.m.	f) 3/4" (19 mm) and down gauge			
	1. Labour			
	Labourer	12.75	Hrs @ 87.50	1,115.63
	Contractor's profit & overhead		20%	223.13
	Total Labour rate			<u>1,338.75</u> 1338.75
Item No. 19-40				
Fixing floating spurs, with material taken from canal plantation within one Km.				
Each	a) Upto 1.5 ft. (0.5 m.) full supply depth			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Detail of cost for 100 Spurs			
	1. Labour			
	Labourer	24.00	Hrs @ 87.50	2,100.00
	Contractor's profit & overhead		20%	420.00
	Total Labour rate			<u>25.20</u>
Each	b) Above 1.5 to 3 ft. (0.5 to 1.0 m.) full supply depth			25.20
	Total Labour rate	50% extra on item 19-40(a)		37.80
Each	c) Above 3 to 4.5 ft. (1.0 to 1.5 m.) full supply depth			37.80
	Total Labour rate	100% extra on item 19-40(a)		50.40
Each	d) Above 4.5 ft. (1.5 m.) full supply depth			50.40
	Total Labour rate	300% extra on item 19-40(a)		75.60
	Item No. 19-41			
	Cutting unsharpened pegs from canal plantation and stacking within one km.			
%Nos.	a) Unsharpened pegs 3 ft.(1m.) long & 3" to 6" (75 to 150mm) dia.			
	1. Labour			
	Carpenter	4.00	Hrs @ 125.00	500.00
	Labourer	4.00	Hrs @ 87.50	350.00
	Contractor's profit & overhead		20%	170.00
	Total Labour rate			<u>1,020.00</u>
	2. Sundries			
	Carriage and stacking within one kilometre.		0.25	212.50
	Contractor's profit & overhead		20%	42.50
	Total Composite rate			<u>1,275.00</u>
%Nos.	b) Unsharpened pegs above 3 ft.to 4 ft.(1m to 1.25m.) long & 3" to 6" (75mm to 150mm) dia.			1275.00
	1. Labour			
	Carpenter	4.50	Hrs @ 125.00	562.50
	Labourer	4.50	Hrs @ 87.50	393.75
	Contractor's profit & overhead		20%	191.25
	Total Labour rate			<u>1,147.50</u>
	2. Sundries			
	Carriage and staking within one kilometre.		0.25	239.06
	Contractor's profit & overhead		20%	47.81
	Total Composite rate			<u>1,434.38</u>
%Nos.	c) Unsharpened pegs 4 ft.to 4.5 ft.(1.25m to 1.5m.) long & 3" to 6" (75mm to 150 mm) dia.			1434.40
	1. Labour			
	Carpenter	5.50	Hrs @ 125.00	687.50
	Labourer	5.50	Hrs @ 87.50	481.25
	Contractor's profit & overhead		20%	233.75
	Total Labour rate			<u>1,402.50</u>
	2. Sundries			
	Carriage and staking within one kilometre.		0.25	292.19
	Contractor's profit & overhead		20%	58.44
	Total Composite rate			<u>1,753.13</u>
%Nos.				1753.15

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

%Nos. d) Unsharpened pegs above 4.5 ft.to 6.5 ft.(1.5m to 2m.) long & 3" to 6" (75mm to 150mm) dia.

1. Labour				
Carpenter	6.50	Hrs @	125.00	812.50
Labourer	6.50	Hrs @	87.50	568.75
Contractor's profit & overhead			20%	276.25
Total Labour rate				1,657.50
				1657.50
2. Sundries				
Carriage and staking within one kilometre.			0.25	345.31
Contractor's profit & overhead			20%	69.06
Total Composite rate				2,071.88
				2071.90

%Nos. e) Unsharpened pegs above 6.5 ft.to 8 ft.(2m to 2.5m) long & 4" to 8" (100mm to 200mm) dia.

Total Labour rate	Twice of item 19-41(d) rate			3,315.00
				3315.00
Composite rate	Twice of item 19-41(d) rate			4,143.80
				4143.80

Item No. 19-42

Supplying unsharpened pegs and stacking along the canal bank.

%Nos. a) Unsharpened pegs 3 ft.(1m.) long & 3" to 6" (75 to 150 mm) dia.

Rate same as in item 19-41(a)				1,275.00
Cost of pegs			20%	255.00
Total Composite rate				1,530.00
				1530.00

%Nos. b) Unsharpened pegs above 3 ft.to 4 ft.(1m to 1.25m.) long & 3" to 6" (75mm to 150mm) dia.

Rate same as in item 19-41(b)				1,434.40
Cost of pegs			20%	286.88
Total Composite rate				1,721.28
				1721.30

%Nos. c) Unsharpened pegs above 4 ft.to 4.5 ft.(1.25m to 1.5m.) long & 3" to 6" (75mm to 150mm) dia.

Rate same as in item 19-41(c)				1,753.15
Cost of pegs			20%	350.63
Total Composite rate				2,103.78
				2103.80

%Nos. d) Unsharpened pegs above 4.5 ft.to 6.5 ft.(1.5m to 2m.) long & 3" to 6" (75mm to 150mm) dia.

Rate same as in item 19-41(d)				2,071.90
Cost of pegs			20%	414.38
Total Composite rate				2,486.28
				2486.30

%Nos. e) Unsharpened pegs above 6.5 ft.to 8 ft.(2m to 2.5m) long & 4" to 8" (100mm to 200mm) dia.

Rate same as in item 19-41(e)				4,143.80
Cost of pegs			20%	828.76
Total Composite rate				4,972.56
				4972.55

Item No. 19-43

Sharpening one end of pegs

%Nos. a) Pegs 3 ft.(1m.) long & 3" to 6" (75 to 150 mm) dia.

1. Labour				
Carpenter	2.50	Hrs @	125.00	312.50
Labourer	2.50	Hrs @	87.50	218.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	106.25	
	Total Labour rate		637.50	637.50
%Nos.	b) Pegs above 3 ft.to 4 ft.(1m to 1.25m.) long & 3" to 6" (75mm to 150mm) dia.			
	1. Labour			
	Carpenter	2.63 Hrs @	125.00	328.13
	Labourer	2.63 Hrs @	87.50	229.69
	Contractor's profit & overhead	20%	111.56	
	Total Labour rate		669.38	669.40
%Nos.	c) Pegs above 4 ft.to 4.5 ft.(1.25m to 1.5m.) long & 3" to 6" (75mm to 150mm) dia.			
	1. Labour			
	Carpenter	2.76 Hrs @	125.00	345.19
	Labourer	2.76 Hrs @	87.50	241.63
	Contractor's profit & overhead	20%	117.36	
	Total Labour rate		704.18	704.20
%Nos.	d) Pegs above 4.5 ft.to 6.5 ft.(1.5m to 2m.) long & 3" to 6" (75mm to 150mm) dia.			
	1. Labour			
	Carpenter	3.04 Hrs @	125.00	379.50
	Labourer	3.04 Hrs @	87.50	265.65
	Contractor's profit & overhead	20%	129.03	
	Total Labour rate		774.18	774.20
%Nos.	e) Pegs above 6.5 ft.to 8 ft.(2m to 2.5m.) long & 4" to 8" (100mm to 200mm) dia.			
	Total Labour rate	Rate same as of item 19-41(d)	774.20	
	Extra labour	30%	232.26	
	Total Labour rate		1,006.46	1006.45
Item No. 19-44				
Driving pegs below the available bed and/or ground level.				
%Nos.	a) Pegs 3 ft.(1m.) long & 3" to 6" (75 to 150 mm) dia to be driven 1 ft. (0.3m)			
	1. Labour			
	Labourer	8.35 Hrs @	87.50	730.63
	Contractor's profit & overhead	20%	146.13	
	Total Labour rate		876.75	876.75
%Nos.	b) Pegs above 3 ft.to 4 ft.(1m to 1.25m.) long & 3" to 6" (75mm to 150mm) dia to be driven 1.25 ft. (0.4 m)			
	1. Labour			
	Labourer	9.60 Hrs @	87.50	840.22
	Contractor's profit & overhead	20%	168.04	
	Total Labour rate		1,008.26	1008.25
%Nos.	c) Pegs 4 ft.to 4.5 ft.(1.25m to 1.5m.) long & 3" to 6" (75mm to 150 mm) dia to be driven 1.5 ft. (0.45 m)			
	1. Labour			
	Labourer	11.04 Hrs @	87.50	966.25
	Contractor's profit & overhead	20%	193.25	
	Total Labour rate		1,159.50	1159.50
%Nos.	d) Pegs above 4.5 ft.to 6.5 ft.(1.5m to 2m.) long & 3" to 6" (75mm to 150mm) dia to be driven 1.75 ft. (0.55 m)			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	1. Labour			
	Labourer	12.70	Hrs @ 87.50	1,111.19
	Contractor's profit & overhead		20%	222.24
	Total Labour rate			<u>1,333.43</u>
				1333.45
%Nos.	e) Pegs above 6.5 ft. to 8 ft. (2m to 2.5m.) long & 4" to 8" (100mm to 200mm) dia to be driven 2 ft. (0.6 m)			
	1. Labour			
	Labourer	14.60	Hrs @ 87.50	1,277.87
	Contractor's profit & overhead		20%	255.57
	Total Labour rate			<u>1,533.44</u>
				1533.45
	Item No. 19-45			
Per	Tying one row of pegs of any size with mung, patha or coir ban including tying round each peg.			
30m. of				
one row	1. Labour			
	Labourer	14.60	Hrs @ 87.50	1,277.87
	Contractor's profit & overhead		20%	255.57
	Total Labour rate			<u>1,533.44</u>
				1533.45
	2. Material			
	Munj ban	0.75	Kg. @ 50.00	37.50
	Contractor's profit & overhead		20%	7.50
	Total Composite rate			<u>1,578.44</u>
				1578.45
	Item No.19-46			
	Cutting brush wood from canal plantation lead within one km and wattling between stakes and inter twining (Av. thickness = 1ft. (0.3m) of wattled brushwood)			
Per	a) For 3 ft. (1 m.) long pegs.			
30m. of				
one row	1. Labour			
	Labourer	23.00	Hrs @ 87.50	2,012.50
	Contractor's profit & overhead		20%	402.50
	Total Labour rate			<u>2,415.00</u>
				2415.00
Per	b) For 3 ft. to 4 ft. (1 m. to 1.25 m) long pegs.			
30m. of				
one row	1. Labour			
	Labourer	24.00	Hrs @ 87.50	2,100.00
	Contractor's profit & overhead		20%	420.00
	Total Labour rate			<u>2,520.00</u>
				2520.00
Per	c) For 4 ft. to 5 ft. (1.25 m. to 1.5 m) long pegs.			
30m. of				
one row	1. Labour			
	Labourer	31.00	Hrs @ 87.50	2,712.50
	Contractor's profit & overhead		20%	542.50
	Total Labour rate			<u>3,255.00</u>
				3255.00
Per	d) For 5 ft. to 6.5 ft. (1.5 m. to 2 m) long pegs.			
30m. of				
one row	1. Labour			
	Labourer	40.00	Hrs @ 87.50	3,500.00
	Contractor's profit & overhead		20%	700.00
	Total Labour rate			<u>4,200.00</u>
				4200.00
Per	e) For 6.5 ft. to 8 ft. (2 m. to 2.5 m) long pegs.			
30m. of				
	1. Labour			
	Labourer	54.00	Hrs @ 87.50	4,725.00

Unit	Description			Component Cost	Unit Rate
				(Rs)	(Rs)
one row	Contractor's profit & overhead	20%		945.00	
	Total Labour rate			5,670.00	5670.00
Item No.19-47					
Supplying brush wood and stacking along the canal and wattling between stakes and inter twining (Av. thickness = 1ft. (0.3m) of wattled brushwood)					
Per	a) For 3 ft. (1 m.) long pegs.				
30m. of	Labour rate same as in item 19-46(a)			2,415.00	
	Brush wood	10%		241.50	
one row	Contractor's profit & overhead	20%		48.30	
	Total Composite rate			2,704.80	2704.80
Per	b) For 3 ft. to 4 ft. (1 m. to 1.25 m) long pegs.				
30m. of	Labour rate same as in item 19-46(b)			2,520.00	
	Brush wood	10%		252.00	
one row	Contractor's profit & overhead	20%		50.40	
	Total Composite rate			2,822.40	2822.40
Per	c) For 4 ft. to 5 ft. (1.25 m. to 1.5 m) long pegs.				
30m. of	Labour rate same as in item 19-46(c)			3,255.00	
	Brush wood	10%		325.50	
one row	Contractor's profit & overhead	20%		65.10	
	Total Composite rate			3,645.60	3645.60
Per	d) For 5 ft. to 6.5 ft. (1.5 m. to 2 m) long pegs.				
30m. of	Labour rate same as in item 19-46(d)			4,200.00	
	Brush wood	10%		420.00	
one row	Contractor's profit & overhead	20%		84.00	
	Total Composite rate			4,704.00	4704.00
Per	e) For 6.5 ft. to 8 ft. (2 m. to 2.5 m) long pegs.				
30m. of	Labour rate same as in item 19-46(e)			5,670.00	
	Brush wood	10%		567.00	
one row	Contractor's profit & overhead	20%		113.40	
	Total Composite rate			6,350.40	6350.40
Item No. 19-48					
Supplying bamboos.					
Each	a) 10 ft. (3 m.) long and 2" (50 mm) dia.				
	Bamboo 2" - 2.5" dia	3.00	R.M. @	92.00	276.00
	Contractor's profit & overhead			20%	55.20
	Total Composite rate				331.20
					331.20
Each	b) 11.5 ft. (3.5 m.) long and 3" (75 mm) dia.				
	Bamboo 3" dia	3.50	R.M. @	92.00	322.00
	Contractor's profit & overhead			20%	64.40
	Total Composite rate				386.40
					386.40
Each	c) 14 ft. (4.25 m.) long and 3" (75 mm) dia.				
	Bamboo 3" dia	4.25	R.M. @	92.00	391.00
	Contractor's profit & overhead			20%	78.20
	Total Composite rate				469.20
					469.20

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each	d) 16.5 ft. (5 m.) long and 3.5" to 4" (87.5 mm to 100 mm) dia.			
	Bamboo 3.5" to 4" dia	5.00	R.M. @ 92.00	460.00
	Contractor's profit & overhead		20%	92.00
	Total Composite rate			<u>552.00</u>
				552.00
Each	e) 20 ft. (6 m.) long and 3.5" to 4" (87.5 mm to 100 mm) dia.			
	Bamboo 3.5" to 4" dia	6.00	R.M. @ 92.00	552.00
	Contractor's profit & overhead		20%	110.40
	Total Composite rate			<u>662.40</u>
				662.40
Item No. 19-49				
Sharpening one end of bamboo pegs.				
Detail for 100 pegs				
%Nos.	a) 10 ft. (3 m.) long and 2" (50 mm) dia.			
	1. Labour			
	Carpenter	3.50	Hrs @ 125.00	437.50
	Labourer	3.50	Hrs @ 87.50	306.25
	Total			<u>743.75</u>
	Contractor's profit & overhead		20%	148.75
	Total Labour rate			<u>892.50</u>
				892.50
%Nos.	b) 11.5 ft. (3.5 m.) long and 3" (75 mm) dia.			
	1. Labour			
	Total Labour rate		10% extra on item 19-49(a)	981.75
				981.75
%Nos.	c) 14 ft. (4.25 m.) long and 3" (75 mm) dia.			
	1. Labour			
	Total Labour rate		10% extra on item 19-49(b)	1,079.93
				1079.95
%Nos.	d) 16.5 ft. (5 m.) long and 3.5" to 4" (87.5 mm to 100 mm) dia.			
	1. Labour			
	Total Labour rate		10% extra on item 19-49(c)	1,187.92
				1187.90
%Nos.	e) 20 ft. (6 m.) long and 3.5" to 4" (87.5 mm to 100 mm) dia.			
	1. Labour			
	Total Labour rate		10% extra on item 19-49(d)	1,306.71
				1306.70
Item No. 19-50				
Driving bamboos below available bed and/or ground level.				
Detail for 100 pegs				
%Nos.	a) 10 ft. (3 m.) long and 2" (50 mm) dia. to be driven 2.5 ft. (0.75m)			
	<i>It requires 3 minutes for two coolies, one for driving and one for holding a peg, one minute for two coolies, one for carriage from staking place to canal bank and other for throwing in the canal. Time required by two coolies for driving 100 pegs:</i>			
	Time required	2 x (1+3) x 100 x 1/60	13.33	Hrs
	1. Labour			
	Labourer	13.33	Hrs @ 87.50	1,166.38
	Contractor's profit & overhead		20%	233.28
	Total Labour rate			<u>1,399.65</u>
				1399.65

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
%Nos.	b) 11.5 ft.(3.5 m.) long and 3" (75 mm) dia to be driven 2.75 ft (0.8m)		
	1. Labour		
	Total Labour rate 15% extra on item 19-50(a)	1,609.60	1609.60
%Nos.	c) 14 ft. (4.25 m.) long and 3" (75 mm) dia to be driven 3.5 ft (1.05m)		
	1. Labour		
	Total Labour rate 15% extra on item 19-50(b)	1,851.04	1851.05
%Nos.	d) 16.5 ft.(5m) long and 3.5" to 4" (87.5mm to 100mm) dia to be driven 4 ft (1.05m)		
	1. Labour		
	Total Labour rate 10% extra on item 11-50(c)	2,128.69	2128.70
%Nos.	e) 20 ft. (6 m) long and 3.5" to 4" (87.5mm to 100mm) dia to be driven 4 ft (1.25m)		
	1. Labour		
	Total Labour rate 10% extra on item 11-50(d)	2,448.00	2448.00
Item No. 19-51-1			
Per	Tying two rows of bamboos 50mm dia with munj, patha or coir ban including tying around each peg.		
30m. of	1. Labour		
one row	Labourer	1.00 Hrs @ 87.50	87.50
	Contractor's profit & overhead	20%	17.50
	Total Labour rate		105.00
	2. Material		
	Munj ban	1.10 Kg. @ 50.00	55.00
	Contractor's profit & overhead	20%	11.00
	Total Composite rate		171.00
Item No. 19-52-1			
Per	Tying two rows of bamboos 3" to 4" (75mm to 100mm) dia with G.I SWG No.10 (2.54mm) wire including tying around the bamboos and third tie around the top end only		
30m. of	1. Labour		
one row	Black smith	1.00 Hrs @ 112.00	112.00
	Contractor's profit & overhead	20%	22.40
	Total Labour rate		134.40
	2. Material		
	G.I. wire 10 gauge	10.00 Kg. @ 140.00	1,400.00
	Contractor's profit & overhead	20%	280.00
	Total Composite rate		1814.40
Item No.19-53			
Cutting brush wood from canal plantation lead within one km and wattling between stakes and inter twining (Av. thickness = 1ft (0.3m) of wattled brush wood).			
Per	a) For bamboos above 8 ft. to 10 ft.(2.5 to 3 m.) long		
30m. of	1. Labour		
one row	Labourer	2 x 3.28 x 10 66.00 Hrs @ 87.50	5,775.00
	Contractor's profit &	20%	1,155.00
	Total Labour rate		6,930.00

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Per	b) For bamboos above 10 ft. to 11.5 ft.(3 to 3.5 m.) long				
30m. of	1. Labour				
	Labourer	2.4 x 3.28 x 10	79.00	Hrs @ 87.50	6,912.50
one row	Contractor's profit &			20%	1,382.50
	Total Labour rate				<u>8,295.00</u>
					8295.00
Per	c) For bamboos above 11.5 ft. to 13 ft.(3.5 to 4 m.) long				
30m. of	1. Labour				
	Labourer	3 x 3.28 x 10	88.50	Hrs @ 87.50	7,743.75
one row	Contractor's profit & overhead			20%	1,548.75
	Total Labour rate				<u>9,292.50</u>
					9292.50
Per	d) For bamboos above 13 ft. to 15 ft.(4 to 4.5 m.) long				
30m. of	1. Labour				
	Labourer	3.2 x 3.28 x 10	105.00	Hrs @ 87.50	9,187.50
one row	Contractor's profit & overhead			20%	1,837.50
	Total Labour rate				<u>11,025.00</u>
					11025.00
Per	e) For bamboos above 15 ft. to 16.5 ft.(4.5 to 5 m.) long				
30m. of	1. Labour				
	Labourer	3.5 x 3.28 x 10	115.00	Hrs @ 87.50	10,062.50
one row	Contractor's profit & overhead			20%	2,012.50
	Total Labour rate				<u>12,075.00</u>
					12075.00
Per	f) For bamboos above 16.5 ft. to 20 ft.(5 to 6 m.) long				
30m. of	1. Labour				
	Labourer	4.25 x 3.28 x 10	139.00	Hrs @ 87.50	12,162.50
one row	Contractor's profit & overhead			20%	2,432.50
	Total Labour rate				<u>14,595.00</u>
					14595.00

Item No. 19-54

Supply brush wood and stacking along the canal bank and wattling between stakes and inter twining (Av. thickness = 1ft. (0.3 m) of wattled brush wood

Per	a) For bamboos above 8 ft. to 10 ft.(2.5 to 3 m.) long				
30m. of	1. Labour				
one row	Total Labour rate	Same as in item 19-53(a)			6,930.00
					6930.00
	2. Material				
	Brush wood			10%	693.00
	Contractor's profit & overhead			20%	138.60
	Total Composite rate				<u>7,761.60</u>
					7761.60
Per	b) For bamboos above 10 ft. to 11.5 ft.(3 to 3.5 m.) long				
30m. of	1. Labour				
one row	Total Labour rate	Same as in item 19-53(b)			8,295.00
					8295.00
	2. Material				
	Brush wood			10%	829.50
	Contractor's profit & overhead			20%	165.90
	Total Composite rate				<u>9,290.40</u>
					9290.40

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Per	c) For bamboos above 11.5 ft. to 13 ft.(3.5 to 4m.) long			
30m. of	1. Labour			
one row	Total Labour rate Same as in item 19-53(c)		9,292.50	9292.50
	2. Material			
	Brush wood	10%	929.25	
	Contractor's profit & overhead	20%	185.85	
	Total Composite rate		<u>10,407.60</u>	10407.60
Per	d) For bamboos above 13 ft. to 15 ft.(4 to 4.5m.) long			
30m. of	1. Labour			
one row	Total Labour rate Same as in item 19-53(d)		11,025.00	11025.00
	2. Material			
	Brush wood	10%	1,102.50	
	Contractor's profit & overhead	20%	220.50	
	Total Composite rate		<u>12,348.00</u>	12348.00
Per	e) For bamboos above 15 ft. to 16.5 ft.(4.5 to 5 m.) long			
30m. of	1. Labour			
one row	Total Labour rate Same as in item 19-53(e)		12,075.00	12075.00
	2. Material			
	Brush wood	10%	1,207.50	
	Contractor's profit & overhead	20%	241.50	
	Total Composite rate		<u>13,524.00</u>	13524.00
Per	f) For bamboos above 16.5 ft. to 20 ft.(5 to 6 m.) long			
30m. of	1. Labour			
one row	Total Labour rate Same as in item 19-53(f)		14,595.00	14595.00
	2. Material			
	Brush wood	10%	1,459.50	
	Contractor's profit & overhead	20%	291.90	
	Total Composite rate		<u>16,346.40</u>	16346.40
	Item No. 19-55-1			
Cu.m.	Cutting and stacking brush wood from canal plantation within one km.			
	1. Labour			
	Labourer	2.00 Hrs @	87.50	175.00
	Contractor's profit & overhead		20%	35.00
	Total Labour rate		<u>210.00</u>	210.00
	Item No. 19-56-1			
Cu.m.	Supplying brush wood and stacking along canal bank.			
	1. Labour			
	Labourer	2.00 Hrs @	87.50	175.00
	Contractor's profit & overhead		20%	35.00
	Total Labour rate		<u>210.00</u>	210.00
	2. Material			
	Brush wood	10%	17.50	
	Contractor's profit & overhead	20%	3.50	
	Total Composite rate		<u>231.00</u>	231.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 19-57-1				
Cu.m.	Filling brush wood only, thoroughly packed.			
	1. Labour			
	Labourer	1.00	Hrs @ 87.50	87.50
	Contractor's profit & overhead		20%	17.50
	Total Labour rate			<u>105.00</u>
				105.00
Item No. 19-58-1				
Per 30 m.	Covering road 10 to 12 ft. (3 to 3.5m.) wide with 3" (75mm) sarkanda or jungle within 100 ft. (30 m)			
	Sarkanda	$(3.0 + 3.5) / 2$	3.25	
		$3.25 \times 3.28 \times 100 \times 75 / 304.8$	262.30	Cu.ft. = 7.43 Cu.m.
	Cutting one cu.m. sarkanda	=	0.75	Hrs.
	Spreading	=	0.50	Hrs.
			1.25	Hrs.
	Time required	1.25×7.43	9.29	Hrs.
	1. Labour			
	Labourer	9.29	Hrs @ 87.50	812.88
	Contractor's profit & overhead		20%	162.58
	Total Labour rate			<u>975.45</u>
				975.45
Item No. 19-59-1				
Sq.m.	Gachi pitching 1 ft (0.3m) thick.			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Labourer	44.20	Hrs @ 87.50	3,867.50
	Contractor's profit & overhead		20%	773.50
	Total Labour rate			<u>464.10</u>
				464.10
Item No. 19-60-1				
Sq.m.	Gachi pitching done with silt clearance and berm dressing.			
	Detail of cost for 10			
	1. Labour			
	Labourer	36.00	Hrs @ 87.50	3,150.00
	Contractor's profit & overhead		20%	630.00
	Total Labour rate			<u>378.00</u>
				378.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 20-1				
Earth work for outlets consisting of excavation, consolidation of earth after refilling, ramming and puddling.				
Each	a) Channels discharge upto 50 cusecs (1.416 Cu.m.per second)			
	1. Labour			
	Labourer	13.00	Hrs @ 87.50	1,137.50
	Contractor's profit & overhead		20%	227.50
	Total Labour rate			<u>1,365.00</u>
				1365.00
Each	b) Channels discharge above 50 cusecs to 100 cusecs (1.416 Cu.m. to 2.832 Cu.m. per second)			
	1. Labour			
	Labourer	18.00	Hrs @ 87.50	1,575.00
	Contractor's profit & overhead		20%	315.00
	Total Labour rate			<u>1,890.00</u>
				1890.00
Each	c) Channels discharge above 101 cusecs to 200 cusecs (2.832 Cu.m. to 5.663 Cu.m. per second)			
	1. Labour			
	Labourer	27.00	Hrs @ 87.50	2,362.50
	Contractor's profit & overhead		20%	472.50
	Total Labour rate			<u>2,835.00</u>
				2835.00
Each	d) Channels discharge above 201 cusecs to 350 cusecs (5.663 Cu.m. to 9.911 Cu.m. per second)			
	1. Labour			
	Labourer	36.00	Hrs @ 87.50	3,150.00
	Contractor's profit & overhead		20%	630.00
	Total Labour rate			<u>3,780.00</u>
				3780.00
Each	e) Channels discharge above 350 cusecs (9.911 Cu.m. per second)			
	1. Labour			
	Labourer	53.00	Hrs @ 87.50	4,637.50
	Contractor's profit & overhead		20%	927.50
	Total Labour rate			<u>5,565.00</u>
				5565.00
Item No. 20-2				
Dismantling outlets including removal of material from site.				
The earthwork for outlets shall be paid under item 20-1				
Each	a) Old types such as K.G.O's orifices			
	1. Labour			
	Labourer	13.00	Hrs @ 87.50	1,137.50
	Contractor's profit & overhead		20%	227.50
	Total Labour rate			<u>1,365.00</u>
				1365.00
Each	b) A.P.M. or O.F. "H" upto 2 ft. (0.61 m.)			
	1. Labour			
	Labourer	20.00	Hrs @ 87.50	1,750.00
	Contractor's profit & overhead		20%	350.00
	Total Labour rate			<u>2,100.00</u>
				2100.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each	c) A.P.M. or O.F. "H" above 2 ft. to 3 ft.(0.61 m. to 0.91 m.)			
	1. Labour			
	Labourer	27.00	Hrs @ 87.50	2,362.50
	Contractor's profit & overhead		20%	472.50
	Total Labour rate			<u>2,835.00</u>
				2835.00
Each	d) A.P.M. or O.F. "H" above 3 ft.(0.91 m.)			
	1. Labour			
	Labourer	33.00	Hrs @ 87.50	2,887.50
	Contractor's profit & overhead		20%	577.50
	Total Labour rate			<u>3,465.00</u>
				3465.00
Each	e) Tail cluster bifurcation			
	Rate same as in item 20-2(b) above			2,100.00
				2100.00
Each	f) Tail cluster trifurcation			
	Rate same as in item 20-2(c) above			2,835.00
				2835.00
Each	g) Tail cluster quardification			
	Rate same as in item 20-2(d) above			3,465.00
				3465.00
	Item No. 20-3-1			
Each	Making temporary A.P.M. bricks block and fixing at site.			
	1. Labour			
	Mason	2.50	Hrs @ 125.00	312.50
	Labourer	2.50	Hrs @ 87.50	218.75
	Total			<u>531.25</u>
	Contractor's profit & overhead		20%	106.25
	Total Labour rate			<u>637.50</u>
				637.50
	2. Material			
	Bricks	20.00	No. @ 10.00	200.00
	Sand local	0.03	Cu.m. @ 882.75	26.48
	Cement OPC	12.50	Kg. @ 10.50	131.25
				<u>357.73</u>
	3. Sundries etc.		10%	88.90
	Total of 2 & 3			<u>446.63</u>
	Contractor's profit & overhead		20%	89.33
	Total Composite rate			<u>1,173.46</u>
				1173.45
	Item No. 20-4-1			
Each	Dismantling walls, taking out temporary A.P.M. brick block, fixing iron block and rebuilding the dismantled walls.			
	1. Labour			
	Mason	5.00	Hrs @ 125.00	625.00
	Labourer	6.50	Hrs @ 87.50	568.75
	Total			<u>1,193.75</u>
	Contractor's profit & overhead		20%	238.75
	Total Labour rate			<u>1,432.50</u>
				1432.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 20-5-1				
Each	Dismantling walls and fitting iron block of O.F. outlet.			
	Rate same as per item 20-4-1.		1,432.50	1432.50
Item No. 20-6				
Constructing, watching and removing bund for outlet built in running water.				
Each	a) Upto 3 ft. (1 m.) height			
	1. Labour			
	Labourer	32.00	Hrs @ 87.50	2,800.00
	Contractor's profit & overhead		20%	560.00
	Total Labour rate			<u>3,360.00</u>
				3360.00
Each	b) Above 3 ft. (1 m.) height			
	1. Labour			
	Labourer	44.00	Hrs @ 87.50	3,850.00
	Contractor's profit & overhead		20%	770.00
	Total Labour rate			<u>4,620.00</u>
				4620.00
Item No. 20-7-1				
Each	Adjusting "B" of tail cluster by dismantling and rebuilding throat walls.			
	1. Labour			
	Mason	2.25	Hrs @ 125.00	281.25
	Labourer	4.00	Hrs @ 87.50	350.00
	Total			<u>631.25</u>
	Contractor's profit & overhead		20%	126.25
	Total Labour rate			<u>757.50</u>
				757.50
	2. Material			
	Bricks	30.00	No. @ 10.00	300.00
	Sand local	0.06	Cu.m. @ 882.75	52.97
	Cement OPC	15.00	Kg. @ 10.50	157.50
				<u>510.47</u>
	3. Sundries etc.		10%	114.17
	Total of 2 & 3			<u>624.64</u>
	Contractor's profit & overhead		20%	124.93
	Total Composite rate			<u>1,507.06</u>
				1507.05
Item No. 20-8-1				
Each	Adjusting "Y" of an A.P.M. outlet including dismantling and rebuilding.			
	1. Labour			
	Mason	4.00	Hrs @ 125.00	500.00
	Labourer	8.00	Hrs @ 87.50	700.00
	Total			<u>1,200.00</u>
	Contractor's profit & overhead		20%	240.00
	Total Labour rate			<u>1,440.00</u>
				1440.00
	2. Material			
	Bricks	50.00	No. @ 10.00	500.00
	Sand local	0.06	Cu.m. @ 882.75	52.97
	Cement OPC	25.00	Kg. @ 10.50	262.50
				<u>815.47</u>
	3. Sundries etc.		10%	201.55
	Total of 2 & 3			<u>1,017.01</u>
	Contractor's profit & overhead		20%	203.40
	Total Composite rate			<u>2,660.41</u>
				2660.40
Item No. 20-9				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Fixing A.P.M. and/or O.F. outlet blocks including dressing of bricks.				
Each	a) For channel depth upto 1.5 ft. (0.5 m.)			
	1. Labour			
	Mason	3.00	Hrs @ 125.00	375.00
	Labourer	3.00	Hrs @ 87.50	262.50
	Total			637.50
	Contractor's profit & overhead		20%	127.50
	Total Labour rate			765.00
				765.00
	2. Material			
	Cement OPC	5.00	Kg. @ 10.50	52.50
	Sand local	0.04	Cu.m. @ 882.75	38.84
	Total			91.34
	Contractor's profit & overhead		20%	18.27
	Total Composite rate			874.61
				874.60
Each	b) For channel depth above 1.5 ft. to 3 ft. (0.5 m. to 1m)			
	1. Labour			
	Mason	3.50	Hrs @ 125.00	437.50
	Labourer	3.50	Hrs @ 87.50	306.25
	Total			743.75
	Contractor's profit & overhead		20%	148.75
	Total Labour rate			892.50
				892.50
	2. Material			
	Cement OPC	7.50	Kg. @ 10.50	78.75
	Sand local	0.03	Cu.m. @ 882.75	26.48
	Total			105.23
	Contractor's profit & overhead		20%	21.05
	Total Composite rate			1,018.78
				1018.80
Each	c) For channel depth above 3 ft. to 5 ft. (1 m. to 1.5 m)			
	1. Labour			
	Mason	4.50	Hrs @ 125.00	562.50
	Labourer	4.50	Hrs @ 87.50	393.75
	Total			956.25
	Contractor's profit & overhead		20%	191.25
	Total Labour rate			1,147.50
				1147.50
	2. Material			
	Cement OPC	10.00	Kg. @ 10.50	105.00
	Sand local	0.03	Cu.m. @ 882.75	26.48
	Total			131.48
	Contractor's profit & overhead		20%	26.30
	Total Composite rate			1,305.28
				1305.30
Each	d) For channel depth above 5 ft. (1.5 m)			
	1. Labour			
	Mason	6.40	Hrs @ 125.00	800.00
	Labourer	6.40	Hrs @ 87.50	560.00
	Total			1,360.00
	Contractor's profit & overhead		20%	272.00
	Total Labour rate			1,632.00
				1632.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Material			
	Same as in item 20-9(c) above		131.48	
	Contractor's profit & overhead	20%	26.30	
	Total Composite rate		<u>1,789.78</u>	1789.80
	Item No. 20-10-1			
Each	Repairing damaged reducing collar of Hume pipe outlets.			
	1. Labour			
	Mason	2.50	Hrs @ 125.00	312.50
	Labourer	2.50	Hrs @ 87.50	218.75
	Total			<u>531.25</u>
	Contractor's profit & overhead		20%	106.25
	Total Labour rate			<u>637.50</u>
				637.50
	2. Material			
	Cement OPC	12.50	Kg. @ 10.50	131.25
	Sand local	0.03	Cu.m. @ 882.75	26.48
	Crush 3/4" & down gauge	0.03	Cu.m. @ 1421.40	42.64
	Total			<u>200.37</u>
	Contractor's profit & overhead		20%	40.07
	Total Composite rate			<u>877.95</u>
				877.95
	Item No. 20-11-1			
R.M.	Laying iron pipes for outlets			
	Detail cost for 30 R.M.			
	1. Labour			
	Mason	12.00	Hrs @ 125.00	1,500.00
	Labourer	12.00	Hrs @ 87.50	1,050.00
	Total			<u>2,550.00</u>
	Contractor's profit & overhead		20%	510.00
	Total Labour rate			<u>102.00</u>
				102.00
	Item No. 20-12			
	Water allowance for constructing outlets or culverts when canal water is not flowing			
Each	a) For channel depth upto 1.5 ft. (0.5 m.)			
	1. Labour			
	Labourer	8.00	Hrs @ 87.50	700.00
	Contractor's profit & overhead		20%	140.00
	Total Labour rate			<u>840.00</u>
				840.00
Each	b) For channel depth above 1.5 ft.to 3 ft. (0.5 m.to 1m)			
	1. Labour			
	Labourer	10.00	Hrs @ 87.50	875.00
	Contractor's profit & overhead		20%	175.00
	Total Labour rate			<u>1,050.00</u>
				1050.00
Each	c) For channel depth above 3 ft.to 5 ft. (1 m.to 1.5 m)			
	1. Labour			
	Labourer	14.50	Hrs @ 87.50	1,268.75
	Contractor's profit & overhead		20%	253.75
	Total Labour rate			<u>1,522.50</u>
				1522.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Each d) For channel depth above 5 ft. (1.5 m)

1. Labour					
Labourer	20.00	Hrs @	87.50	1,750.00	
Contractor's profit & overhead			20%	350.00	
Total Labour rate				2,100.00	2100.00

Item No. 20-13-1**Each Hoisting and placing R.C. slab or stone in position on outlets or W.C culverts.**

1. Labour					
Mason	1.50	Hrs @	125.00	187.50	
Labourer	4.00	Hrs @	87.50	350.00	
Total				537.50	
Contractor's profit & overhead			20%	107.50	
Total Labour rate				645.00	645.00

Item No. 20-14**Fixing pipe culverts including back-filling of earth and puddling****R.M. a) Portion under bank**

Detail of cost for 10 R.M.

1. Labour					
Mason	4.00	Hrs @	125.00	500.00	
Labourer	36.00	Hrs @	87.50	3,150.00	
Total				3,650.00	
Contractor's profit & overhead			20%	730.00	
Total Labour rate				438.00	438.00

2. Material

Cement OPC	28.00	Kg. @	10.50	294.00	
Sand local	0.08	Cu.m. @	882.75	70.62	
				364.62	
Contractor's profit & overhead			20%	72.92	
Total Composite rate				481.75	481.75

R.M. b) Portion under road beyond bank

Detail of cost for 10 R.M.

1. Labour					
Mason	3.50	Hrs @	125.00	437.50	
Labourer	14.00	Hrs @	87.50	1,225.00	
Total				1,662.50	
Contractor's profit & overhead			20%	332.50	
Total Labour rate				199.50	199.50

2. Material

Same as in item 20-14(a)				364.62	
Contractor's profit & overhead			20%	72.92	
Total Composite rate				243.25	243.25

Item No. 20-15**Removing pipe outlets and refilling earth including ramming and puddling.****R.M. a) Portion under bank**

Detail of cost for 10 R.M.

1. Labour					
Labourer	36.00	Hrs @	87.50	3,150.00	
Contractor's profit & overhead			20%	630.00	
Total Labour rate				378.00	378.00

R.M. b) Portion under road beyond bank

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Detail of cost for 10

1. Labour

Labourer 14.00 Hrs @ 87.50 1,225.00

Contractor's profit & overhead 20% 245.00

Total Labour rate 147.00 **147.00****Item No. 20-16****Changing pipe outlets by removing one pipe and replacing it at the same site with another pipe including earthwork and puddling****R.M. a) Portion under bank**

Detail of cost for 10

1. Labour

Mason 3.50 Hrs @ 125.00 437.50

Labourer 44.00 Hrs @ 87.50 3,850.00

Total 4,287.50

Contractor's profit & overhead 20% 857.50

Total Labour rate 514.50 **514.50**

2. Material

Cement OPC 28.00 Kg. @ 10.50 294.00

Sand local 0.08 Cu.m. @ 882.75 70.62

364.62

Contractor's profit & overhead 20% 72.92

Total Composite rate 558.25 **558.25****R.M. b) Portion under road beyond bank**

Detail of cost for 10 R.M.

1. Labour

Mason 2.00 Hrs @ 125.00 250.00

Labourer 20.00 Hrs @ 87.50 1,750.00

Total 2,000.00

Contractor's profit & overhead 20% 400.00

Total Labour rate 240.00 **240.00**

2. Material

Same as in item 20-16(a) 364.62

Contractor's profit & overhead 20% 72.92

Total Composite rate 283.75 **283.75**

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
Item No. 21-1						
Excavation or cutting to a required grade, camber and side slopes including dressing top and sides and disposal of excavated material within a lift of 5ft (1.5m) and lead upto 100 ft. (30m)						
Cu.m.	a) In all kinds of soil except gravelley, murum, wet silt, clay or mud.					
	1. Labour					
	Dresser	0.05	Hrs @	87.50	4.38	
	Labourer	0.10	Hrs @	87.50	8.75	
	2. Tools and Plant					
	Excavator	0.05	Hrs @	2500	125.00	
	Truck 8 ton capacity (Dumper)	0.05	Hrs @	1542	77.10	
	Total				215.23	
	Contractor's profit & overhead			20%	43.05	
	Total Composite rate				258.27	258.25
Cu.m.	b) Wet silt, clay or mud					
	1. Labour					
	Dresser	0.05	Hrs @	87.50	4.38	
	Labourer	0.10	Hrs @	87.50	8.75	
	2. Tools and Plant					
	Excavator	0.05	Hrs @	2500	125.00	
	Truck 8 ton capacity (Dumper)	0.05	Hrs @	1542	77.10	
	Dewatering			5%	10.76	
	Total				225.99	
	Contractor's profit & overhead			20%	45.20	
	Total Labour rate				271.18	271.20
Cu.m.	c) Gravelly soil					
	1. Labour					
	Dresser	0.05	Hrs @	87.50	4.38	
	Labourer	0.10	Hrs @	87.50	8.75	
	2. Tools and Plant					
	Excavator	0.06	Hrs @	2500	145.83	
	Truck 8 ton capacity (Dumper)	0.06	Hrs @	1542	89.95	
	Total				248.91	
	Contractor's profit & overhead			20%	49.78	
	Total Labour rate				298.69	298.70
Cu.m.	d) Murum soil					
	1. Labour					
	Dresser	0.05	Hrs @	87.50	4.38	
	Labourer	0.10	Hrs @	87.50	8.75	
	2. Tools and Plant					
	Excavator	0.06	Hrs @	2500	156.25	
	Truck 8 ton capacity (Dumper)	0.06	Hrs @	1542	96.38	
	Total				265.75	
	Contractor's profit & overhead			20%	53.15	
	Total Labour rate				318.90	318.90
Cu.m.	e) Existing shingle road for placing sub-base or base course					
	1. Labour					
	Dresser	0.05	Hrs @	87.50	4.38	
	Labourer	0.10	Hrs @	87.50	8.75	
	Excavator	0.08	Hrs @	2500	187.50	
	Truck 8 ton capacity (Dumper)	0.08	Hrs @	1542	115.65	
	Total				316.28	
	Contractor's profit & overhead			20%	63.26	
	Total Labour rate				379.53	379.55

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Cu.m. f) Extra if excavated earth is required to be filled in road embankment by placing it in layers not exceeding 9" (230mm) in depth including dressing top and sides of the bank.

1. Labour

Dresser	0.05	Hrs	@	87.50	4.38
Labourer	0.10	Hrs	@	87.50	8.75
Bulldozer C-14	0.02	Hrs	@	3597	71.94
Total					85.07
Contractor's profit & overhead				20%	17.01
Total Labour rate					102.08

102.10

Item No. 21- 2-1

Cu.m. Excavation or cutting in soft rock by hammering, chiselling and pick or jumper work and disposal of the excavated material within a lift 5 ft. (1.5m) and lead upto 100 ft. (30m).

1. Labour

Excavator	1.00	Hrs	@	87.50	87.50
Rock breaker	1.00	Hrs	@	87.50	87.50
Driller	0.50	Hrs	@	87.50	43.75
Labourer	3.00	Hrs	@	87.50	262.50
Bahishti	0.50	Hrs	@	87.50	43.75
Total					525.00
Contractor's profit & overhead				20%	105.00
Total Labour rate					630.00

630.00

Item No. 21-3-1

Cu.m. Excavation or cutting in soft rock by blasting and disposal of excavated material within a lift of 5 ft. (1.5m) and lead upto 100 ft. (30m)

1. Labour

Excavator	1.00	Hrs	@	87.50	87.50
Rock breaker	2.00	Hrs	@	87.50	175.00
Driller	0.50	Hrs	@	87.50	43.75
Labourer	2.00	Hrs	@	87.50	175.00
Bahishti	0.25	Hrs	@	87.50	21.88
Total					503.13
Contractor's profit & overhead				20%	100.63
Total Labour rate					603.75

603.75

2. Material

Blasting powder	0.20	Kg.	@	205.00	41.00
Fuse with cartridge	0.20	No.	@	40.00	8.00
					49.00
Contractor's profit & overhead				20%	9.80
Total Composite rate					662.55

662.55

Item No. 21-4-1

Cu.m. Excavation or cutting in hard rock by blasting and disposal of excavated material within a lift of 5 ft. (1.50m) and lead upto 100 ft. (30m)

1. Labour

Excavator	1.50	Hrs	@	87.50	131.25
Rock breaker	3.00	Hrs	@	87.50	262.50
Driller	1.00	Hrs	@	87.50	87.50
Labourer	4.00	Hrs	@	87.50	350.00
Bahishti	0.25	Hrs	@	87.50	21.88
Total					853.13
Contractor's profit & overhead				20%	170.63
Total Labour rate					1023.75

1023.75

2. Material

Blasting powder	0.40	Kg.	@	205.00	82.00
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Fuse with cartridge	0.40 No. @ 40.00	16.00
			98.00
	Contractor's profit & overhead	20%	19.60
	Total Composite rate		1141.35
			1141.35

Item No. 21- 5

Cu.m. Excavation or cutting in hard rock by hammering & chiselling and disposal of excavated material within a lift of 5 ft (1.5m) and lead upto 100 ft (30m)

a) Soft rock, slate, shale, schist or laterite work with pick and crow bar

Total Labour rate	Same as in item 3-12(b)	494.65	494.65
Total Composite rate	Same as in item 3-12(b)	673.05	673.05

b) Medium hard rock requiring occasional blasting

Total Labour rate	Same as in item 3-12(e)	720.35	720.35
Total Composite rate	Same as in item 3-12(e)	938.80	938.80

Item No. 21- 6

Making earthen embankment with earth taken from approved borrow pits including cost of excavation, placing in layers not exceeding 9" (230mm) in depth including dressing top and sides of the bank within a lift of 5 ft. (1.5m) and lead upto 100 ft. (30m). (Excluding the royalty of Earth, Compaction and its carriage)

Cu.m. a) In all kinds of soil except gravelly, murum, wet silt, clay or mud and rock.**1. Labour**

Dresser	0.07	Hrs	@	87.50	6.13
Labourer	0.07	Hrs	@	87.50	6.13
Total					12.25
Contractor's profit & overhead				20%	2.45
Total Labour rate					14.70
					14.70

2. Tools and Plant

Bulldozer C-14	0.010	Hrs	@	3,597.00	36
Motor grader 165 H.P.	0.010	Hrs	@	3150	32
Tractor with trolley	0.020	Hrs	@	544	11
Total					78
Contractor's profit & overhead				20%	15.67
Total Labour rate					94.02
					94.00

Cu.m. b) In wet silt, clay and mud**1. Labour**

Dresser	0.07	Hrs	@	87.50	6.13
Labourer	0.07	Hrs	@	87.50	6.13
Total					12.25
Contractor's profit & overhead				20%	2.45
Total Labour rate					14.70
					14.70

2. Tools and Plant

Bulldozer C-14	0.015	Hrs	@	3,597.00	54
Motor grader 165 H.P.	0.015	Hrs	@	3150	47
Tractor with trolley	0.020	Hrs	@	544	11
Total					112
Contractor's profit & overhead				20%	22.42
Total Labour rate					134.50
					134.50

Cu.m. c) In gravelly soil**1. Labour**

Dresser	0.07	Hrs	@	87.50	6.13
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Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Labourer	0.07	Hrs	@	87.50	6.13
	Total					12.25
	Contractor's profit & overhead				20%	2.45
	Total Labour rate					14.70
						14.70
	2. Tools and Plant					
	Bulldozer C-14	0.030	Hrs	@	3,597.00	108
	Motor grader 165 H.P.	0.030	Hrs	@	3150	95
	Tractor with trolley	0.020	Hrs	@	544	11
	Total					213
	Contractor's profit & overhead				20%	42.66
	Total Labour rate					255.95
						255.95
Cu.m.	d) In murum soil					
	1. Labour					
	Dresser	0.07	Hrs	@	87.50	6.13
	Labourer	0.07	Hrs	@	87.50	6.13
	Total					12.25
	Contractor's profit & overhead				20%	2.45
	Total Labour rate					14.70
						14.70
	2. Tools and Plant					
	Bulldozer C-14	0.020	Hrs	@	3,597.00	72
	Motor grader 165 H.P.	0.020	Hrs	@	3150	63
	Tractor with trolley	0.080	Hrs	@	544	44
	Total					178
	Contractor's profit & overhead				20%	35.69
	Total Labour rate					214.15
						214.15
	Item No. 21- 7					
Cu.m.	a) Extra for every 50 ft (15 m) additional lead or part thereof upto 820 ft.(250m) over items 21-1 and 21-6 for soft, ordinary, hard and very hard soil					
	Total Labour rate				Same as in item 3-17(a)	2.50
						2.50
Cu.m.	b) Extra for lift beyond first 5 ft. (1.5 m.) and upto 10 ft. (3m.) over items 21-1 and 21-6.					
	1. Labour					
	Labourer	0.20	Hrs	@	87.50	17.50
	Contractor's profit & overhead				20%	3.50
	Total Labour rate					21.00
						21.00
	Item No. 21- 8					
Cu.m.	a) Extra for every 50 ft. (15m) additional lead or part thereof upto 820 ft. (250m) for items 21-2 to 21-5 for gravel, shingle or rock. (including royalty of Quarry).					
	Total Labour rate				Same as in item 3-17(b)	3.25
						3.25
Cu.m.	b) Extra for lift beyond first 5 ft. (1.5 m) and upto 10 ft. (3 m.) over items 21-2 to 21-5.					
	1. Labour					
	Labourer	0.25	Hrs	@	87.50	21.88
	Contractor's profit & overhead				20%	4.38
	Total Labour rate					26.25
						26.25
Cu.m.	c) Extra for additional lift for every 5 fts beyond 10 ft. (3 m.) over items 21-2 to 21-5.					
	1. Labour					
	Labourer	0.33	Hrs	@	87.50	28.88
	Contractor's profit & overhead				20%	5.78
	Total Labour rate					34.65
						34.65

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
Item No. 21-9-1						
Cu.m.	Compaction of earthen embankments to full depth and width below sub-grade level by mechanical means in layers not exceeding 8" (200mm) in depth at optimum moisture content including watering and mixing by mechanical means. The sub-grade embankments shall be compacted to at least 95% modified AASHTO maximum dry density for their full depth and width.					
	Detail of cost for layer 500 Sq.m.					
	200 mm thick	500x10.76x200/304.8	3530.18	Cu.ft. =	99.98	Cu.m.
	1. Labour					
	Labourer		7.00	Hrs @	87.50	612.38
	Mobilization, demobilization & idle time @ 5%					
						30.62
	Total					
						643.00
	Contractor's profit & overhead					
				20%		122.48
	Total Labour rate					
						7.65
						7.65
	2. Tools and Plant					
	Vibratory roller 10-12 Ton		4.000	Hrs @	1772	7,088.00
	Water tanker, 1000 gallon capacity		8.000	Hrs @	583	4,664.00
	Sheep foot roller		1.500	Hrs @	3300	4,950.00
	Total					
						16,702
	Contractor's profit & overhead					
				20%		3,340
	Total Composite rate					
						208.12
						208.10
Item No. 21-10						
Sq.m.	a) Preparation and compaction upto 95% modified AASHTO of natural ground upto a depth of 8" (20mm) in ordinary soil.					
	Detail of cost for 1000 sq.m.					
	1. Labour					
	Labourer		24.00	Hrs @	87.50	2100.00
	Total					
						2100.00
	Contractor's profit & overhead					
				20%		420.00
	Total Labour rate					
						2.52
						2.50
	2. Tools and Plant					
	Water tanker, 1000 gallon capacity		8.00	Hrs @	583.00	4,664
	Road roller 10-12 ton capacity		4.00	Hrs @	1154.00	4,616
	Motor grader 165 H.P.		1.50	Hrs @	3150.00	4,725
	Mobilization, demobilization & idle time @ 5%					
				5%		700.25
	Total					
						14,705
	Contractor's profit & overhead					
				20%		2,941
	Total Composite rate					
						20.17
						20.15
Sq.m.	b) Clearing and grubbing (removal) of roots including scarifying natural ground upto 8" (20mm) depth and disposal of roots.					
	Detail of cost for 100 sq.m.					
	1. Labour					
	Labourer		1.65	Hrs @	87.50	144.38
	Contractor's profit & overhead					
				20%		28.88
	Total Labour rate					
						1.73
						1.75
	2. Equipment					
	Wheel Tractor with Blade		1.65	Hrs @	650.00	1072.50
	Contractor's profit & overhead					
				20%		214.50
	Total Composite rate					
						14.60
						14.60
Item No. 21-11-1						
Sq.m.	Preparation of subgrade over top of compacted embankment to at least 95% modified AASHTO maximum dry density with required dressing including cutting to required grade, camber and side slopes and disposal of surplus material within a lead of 90m					

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Labourer	2.50	Hrs @ 87.50	218.75
	Contractor's profit & overhead		20%	43.75
	Total Labour rate			<u>26.25</u> 26.25
	2. Tools and plant			
	Water tanker, 1000 gallon capacity	0.10	Hrs @ 583.00	58.30
	Motor grader 90 H.P.	0.05	Hrs @ 2136.00	106.80
	Mobilization, demobilization & idle time @ 5%		5%	8.26
	Total			<u>173.36</u>
	Contractor's profit & overhead		20%	34.67
	Total Composite rate			<u>47.05</u> 47.05
	Item No. 21-12			
Sq.m.	Preparation of sub-grade over bottom of excavation with required dressing to required grade, camber and side slopes including cutting to required depth and breaking clods, watering and consolidation with suitable mechanical means to attain maximum density of 95% modified AASHTO for top 6" (150mm) layer including disposal of surplus earth within a lead of 90m.			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	For cutting and			
	Labourer	5.00	Hrs @ 87.50	437.50
	For compaction			
	Labourer	0.25	Hrs @ 87.50	21.88
	Total			<u>459.38</u>
	Contractor's profit & overhead		20%	91.88
	Total Labour rate			<u>55.13</u> 55.15
	2. Tools and plant			
	a) Cutting and compaction			
	Bulldozer C-14	0.20	Hrs @ 3597.00	719.40
	Harrowing disc with tractor	0.20	Hrs @ 537.00	107.40
				<u>826.80</u>
	b) Compaction of top 6" (150 mm) layer			
	For 6" layer	10.76 x 10	107.60	Sq.m.
	Water tanker, 1000 gallon capacity		1.72	Hrs @ 583.00
	Sheep foot roller		0.86	Hrs @ 3300.00
	Tractor with operator		0.86	Hrs @ 537.00
	Road roller 10-12 ton capacity		0.86	Hrs @ 1154.00
	Motor grader 90 H.P.		1.72	Hrs @ 2136.00
				<u>3677.34</u>
				8977.28
	c) Preparation of sub grade			
	Water tanker, 1000 gallon capacity	0.86	Hrs @ 583.00	501.85
	Road roller 10-12 ton capacity	0.43	Hrs @ 1154.00	496.68
	Motor grader 90 H.P.	0.86	Hrs @ 2136.00	1838.67
				<u>2837.20</u>

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
d)	Mobilization, demobilization & idle time @ 5%	632.06	
	Total (a+b+c+d)	13273.34	
	Contractor's profit & overhead	20%	2654.67
	Total Composite rate	214.41	214.40

Item No. 21-13-1

Cu.m. Providing and spreading murum (stone dust) of approved quality over stone metalling (water bound macadam) or brick ballast. Watering and consolidation with road roller including all lead and lift. (murum upto 25% of road metal) (including royalty of Quarry).

1. Labour					
Labourer	3.50	Hrs	@	87.50	306.25
Bahishti	1.25	Hrs	@	87.50	109.38
Driver	0.20	Hrs	@	87.50	17.50
Total					433.13
Contractor's profit & overhead				20%	86.63
Total Labour rate					519.75
2. Material					
Murum	1.00	Cu.m.	@	1059.30	1059.30
3. Tools and Plant					
Road roller 10-12 ton capacity	0.20	Hrs	@	1154.00	230.80
4. Mobilization, demobilization & idle time @ 5%				5%	64.51
					1354.61
Contractor's profit & overhead				20%	270.92
Total Composite rate					2145.28
					2145.30

Item No. 21-14-1

Cu.m. Spreading already excavated material available at site over metalling, watering, consolidation with road roller, pre-stacking of excavated material including all lead and lift.

1. Labour					
Labourer	3.50	Hrs	@	87.50	306.25
Bahishti	1.25	Hrs	@	87.50	109.38
Driver	0.20	Hrs	@	87.50	17.50
Total					433.13
Contractor's profit & overhead				20%	86.63
Total Labour rate					519.75
2. Tools and Plant					
Road roller 10-12 ton capacity	0.20	Hrs	@	1154.00	230.80
3. Mobilization, demobilization & idle time @ 5%				5%	11.54
					242.34
Contractor's profit & overhead				20%	48.47
Total Composite rate					810.56
					810.55

Item No. 21-14A

Cu.m. Providing and laying stone soling 6" thick with stone available at site to required grade and camber including packing with spawls, chips, watering, compacting with road roller and with all lead and lift. (excluding royalty of Quarry)

1. Labour					
Labourer	4.00	Hrs	@	87.50	350.00
Bahishti	1.50	Hrs	@	87.50	131.25
Driver	0.05	Hrs	@	87.50	4.38
Total					485.63
Contractor's profit & overhead				20%	97.13
Total Labour rate					582.75
3. Tools and Plant					
Road roller 10-12 ton	0.04	Hrs	@	1154.00	46.16
4. Mobilization, demobilization & idle time @ 5%				5%	2.31

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total of 2, 3 & 4		48.47	
	Contractor's profit & overhead	20%	9.69	
	Total Composite rate		640.91	640.90
	Item No. 21-14B			
Cu.m	Providing and laying stone soling 6" thick with approved stone to required grade and camber including packing with spawls, chips, watering, compacting with road roller and with all lead and lift.(including royalty of Quarry).			
	1. Labour			
	Labourer	4.00	Hrs @ 87.50	350.00
	Bahishti	1.50	Hrs @ 87.50	131.25
	Driver	0.05	Hrs @ 87.50	4.38
	Total			485.63
	Contractor's profit & overhead	20%	97.13	
	Total Labour rate		582.75	582.75
	2. Material			
	Stone 6" & down gauge	1.22	Cu.m. @ 706.20	861.56
	Infill Materials 25%	0.31	Cu.m. @ 1059.30	323.09
	3. Tools and Plant			
	Road roller 10-12 ton	0.04	Hrs @ 1154.00	46.16
	4. Mobilization, demobilization & idle time @ 5%		5%	61.54
	Total of 2, 3 & 4			1292.35
	Contractor's profit & overhead	20%	258.47	
	Total Composite rate		2133.57	2133.55
	Item No. 21-15			
Cu.m	a) Providing and laying crushed stone of any thickness to required grade and camber including packing with spawls, chips, watering, compacting with road roller with all lead and lift. (including royalty of Quarry).			
	1. Labour			
	Labourer	1.00	Hrs @ 87.50	87.50
	Total			87.50
	Contractor's profit & overhead	20%	17.50	
	Total Labour rate		105.00	105.00
	2. Material			
	Stone ballast 1-1/2" & down gauge	1.22	Cu.m. @ 706.20	861.56
	3. Tools and Plant			
	Dumper Truck	0.03	Hrs @ 2150.00	65
	Motor grader 165 H.P.	0.01	Hrs @ 3150.00	32
	Water tanker, 1000 gallon capacity	0.03	Hrs @ 583.00	17
	Road roller 10-12 ton capacity	0.02	Hrs @ 1154.00	23
	Vibratory roller 10-12	0.02	Hrs @ 1772.00	35
	Bulldozer C-14	0.01	Hrs @ 3597.00	36
	4. Mobilization, demobilization & idle time @ 5%			53.48
	Total of 2, 3 & 4			1123.02
	Contractor's profit & overhead	20%	224.60	
	Total Composite rate		1452.63	1452.65

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Cu.m	b) Providing and laying pitrun gravel in sub base or base course of any thickness to required grade and camber including watering and compacting with road roller with all lead and lift. (compacted thickness to be measured)			
	1. Labour			
	Labourer	1.00	Hrs @ 87.50	87.50
	Total			87.50
	Contractor's profit & overhead		20%	17.50
	Total Labour rate			105.00
	2. Material			
	Gravel	1.22	Cu.m. @ 423.72	516.94
	3. Tools and Plant			
	Dumper Truck	0.03	Hrs @ 2150.00	65
	Motor grader 165 H.P.	0.01	Hrs @ 3150.00	32
	Water tanker, 1000 gallon capacity	0.03	Hrs @ 583.00	17
	Road roller 10-12 ton capacity	0.02	Hrs @ 1154.00	23
	Vibratory roller 10-12	0.02	Hrs @ 1772.00	35
	Bulldozer C-14	0.01	Hrs @ 3597.00	36
	4. Mobilization, demobilization & idle time @ 5%			21.75
	Total of 2, 3 & 4			746.67
	Contractor's profit & overhead		20%	149.33
	Total Composite rate			1001.00
				105.00
				1001.00
Cu.m	c) Providing and laying Granular sub base using Crushed Stone Aggregate of approved thickness to required grade and camber including watering compacting with mechanical means and with all lead and lift. (compacted thickness to be measured) (including royalty of Quarry).			
	1. Labour			
	Labourer	1.00	Hrs @ 87.50	87.50
	Total			87.50
	Contractor's profit & overhead		20%	17.50
	Total Labour rate			105.00
	2. Material			
	Granular Material	1.22	Cu.m. @ 776.82	947.72
	3. Tools and Plant			
	Dumper Truck	0.03	Hrs @ 2150.00	65
	Motor grader 165 H.P.	0.01	Hrs @ 3150.00	32
	Water tanker, 1000 gallon capacity	0.03	Hrs @ 583.00	17
	Road roller 10-12 ton capacity	0.02	Hrs @ 1154.00	23
	Vibratory roller 10-12	0.02	Hrs @ 1772.00	35
	Bulldozer C-14	0.01	Hrs @ 3597.00	36
	4. Mobilization, demobilization & idle time @ 5%			57.79
	Total of 2, 3 & 4			1213.49
	Contractor's profit & overhead		20%	242.70
	Total Composite rate			1561.18
				105.00
				1561.20
Sq.m.	Item No. 21- 16-1			
	Providing and laying, soling bricks sand grouted laid on edges in herring bond or any other approved pattern to required grade and camber including rolling with power roller with all lead and lift.			
	Cost of laying 10 sq.m.			
	1. Labour			
	Brick layer	4.00	Hrs @ 125.00	500.00
	Labourer	6.00	Hrs @ 87.50	525.00
	Bahishti	0.75	Hrs @ 87.50	65.63
	Total			1090.63
	Contractor's profit & overhead		20%	218.13
	Total Labour rate			130.88
	2. Material			
	Bricks	486.00	No. @ 10.00	4860.00
				130.90

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Sand local	1.00	Cu.m. @ 882.75	882.75
				5742.75
	3. Tools and Plant			
	Road roller 10-12 ton capacity	0.10	Hrs @ 1154.00	115.40
	4. Mobilization, demobilization & idle time @ 5%			292.91
	Total of 2, 3 & 4			6151.06
	Contractor's profit & overhead		20%	1230.21
	Total			7381.27 A
	Total Composite rate = A /10 + Lab. Rate			869.00
				869.00

Item No. 21-17

- Cu.m. a) **Providing and laying graded aggregate base course of crushed stone of approved quality, including placing, mixing, spreading, watering and compacting base course to required depth, camber and grade to achieve 100% max. modified AASHTO dry density conforming to AASHTO specifications T -180, with mechanical means and with all lead and lift. (Carriage of crushed stone is included in the rate, within 5km of Project premises).**

Cost of laying for 5000 Sq.ft (464.5 Sq.m.) of 6" (150 mm) loose thickness and compacted thickness of 3/4 x 6" = 5000 x 4.5/12

	1875.00	Cu. ft		
1. Labour				
Labourer	30.00	Hrs @	87.50	2,625.00
Driver	20.00	Hrs @	87.50	1,750.00
Contractor's profit & overhead			20%	875.00
Total Labour rate				98.87
				98.85

2. Material

Stone ballast crushed 2" and down gauge	64.78	Cu.m. @	706.20	45,750
3. Tools and plant				
Dumper Truck	1.50	Hrs @	2150.00	3,225
Motor grader 165 H.P.	1.00	Hrs @	3150.00	3,150
Water tanker, 1000 gallon capacity	1.50	Hrs @	583.00	875
Road roller 10-12 ton capacity	2.00	Hrs @	1154.00	2,308
Vibratory roller 10-12	2.00	Hrs @	1772.00	3,544
Bulldozer C-14	1.00	Hrs @	3597.00	3,597
				62,449
4. Mobilization, demobilization & idle time @ 5%				3,122
Total 2, 3 & 4				65,571
Contractor's profit & overhead			20%	13,114
Total				78,685 A
Total Composite rate = A x 35.31 /1875 + Lab. rate				1,580.67
				1580.65

Item No. 21-18-1

- Cu.m. **Providing and laying stone ballast 1.5" to 2.5" (37.5mm - 62.5mm) including blending with the stone dust or any other granular material approved by the Engineer-in-charge. Consolidating by mechanical interlocking through rolling to required grade depth and camber to achieve 100% modified AASHTO dry density including placing, mixing, spreading watering and compacting with all lead and lift. (Carriage of stone ballast is included in the rate, within 5km of Project premises).**

Cost of laying for 5000 Sq.ft (464.5 Sq.m.) of 6" (150 mm) loose thickness and compacted thickness of 3/4 x 6" = 5000 x 4.5/12

	1875.00	Cu. ft		
1. Labour				
Labourer	48.00	Hrs @	87.50	4200.00
Driver	12.00	Hrs @	87.50	1050.00
Contractor's profit & overhead			20%	840.00
Total Labour rate				114.69
				114.70

2. Material

Stone ballast crushed 2" and down gauge	64.78	Cu.m. @	706.20	45,750
Murum	16.20	Cu.m. @	1059.30	17,156
3. Tools and plant				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Dumper Truck	1.50	Hrs @ 2150.00	3,225
	Motor grader 165 H.P.	1.00	Hrs @ 3150.00	3,150
	Water tanker, 1000 gallon capacity	1.50	Hrs @ 583.00	875
	Road roller 10-12 ton capacity	2.00	Hrs @ 1154.00	2,308
	Vibratory roller 10-12	2.00	Hrs @ 1772.00	3,544
	Bulldozer C-14	1.00	Hrs @ 3597.00	3,597
				79,605
	4. Mobilization, demobilization & idle time @ 5%			3,980
	Total 2, 3 & 4			83,585
	Contractor's profit & overhead		20%	16,717
	Total			100,302 A
	Total Composite rate = A x 35.31 / 1875 + Lab. rate			2,003.57
				2003.55

Item No. 21- 19-1

Sq.m.

Surface dressing in one coat with bitumen 80/100 or any other approved grade using 40 lbs of bitumen and 5 cu.ft. of 1/2" size approved crushed aggregate per 100 Sq.ft (1.95 kg. of bitumen and 0.015 cu.m. of 1/2" size crushed aggregate per sq.m.) of road surface compacted with rolling. (including royalty of Quarry).

Detail of cost for 4900 sq.m. (52800 sq.ft)

Labour required for

Cooly required for:

Brushing off = 1.00 Nos.

Heating & spraying = 1.50 Nos.

Spreading bajri = 1.00 Nos.

Total 3.50 Nos. = 28.00 Hrs.

For 4900 Sq.m. = 52 x 4900/ 93 1475.27 Hrs.

Materials

Bitumen 80/100 4900 x 1.95 9555.00 Kg

Wastage 5% 477.75 Kg

10032.75 Kg

Crushed agg. 4900 x 0.015 75.95 Cu.m

Wastage 5% 3.80 Cu.m

79.75 Cu.m

1. Labour

Labourer 1475.27 Hrs @ 87.50 129,086

Chowkidar 48.00 Hrs @ 87.50 4,200

Contractor's profit & overhead 20% 26,657

Total Labour rate 32.64

32.65

2. Material

Bitumen 80/100 (including 5% wastage) 10032.75 Kg. @ 80.00 802,620

Approved Crushed Aggregate 1/2" & down gauge 79.75 Cu.m. @ 1296.75 103,413

Wire brush 10.00 No. @ 50.00 500

Broom 20.00 No. @ 35.00 700

907,233

3. Tools and plant

Tar boiler & roller production/ day 557.60 Sq.m.

= 1 x 4900/ 557.6 8.79 Hrs

Tar boiler with sprayer 8.79 Hrs @ 125.00 1,098

Road roller 10-12 ton capacity 8.79 Hrs @ 1154.00 10,141

11,239

4. Mobilization, demobilization & idle time @ 3% 27,554

Total of 2, 3 & 4 946,026

Contractor's profit & overhead 20% 189,205

Total 1,135,231 A

Total Composite rate = A /4900 + Lab. rate 264.32

264.30**Item No. 21-20-1**

Sq.m.

Surface dressing in two coats including supply of bitumen 80/100 or any approved grade and approved crushed aggregate of approved size and grade for road surface with rolling (including royalty of Quarry).

a) First coat

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	<i>40 lbs of bitumen blended with 5.5 Cu.ft. of 3/4" crushed aggregate per 100 sq.ft. (1.96 kg. of bitumen blended with 0.017 Cu.m. of 13mm size crushed aggregate per Sq.m.)</i>				
	b) Second coat				
	<i>25 lbs of bitumen blended with 2.75 Cu.ft. of 1/2" crushed aggregate per 100 sq.ft. (1.23 kg. of bitumen blended with 0.008 Cu.m. of 6.4mm size crushed aggregate per Sq.m.)</i>				
	Detail of cost for 4900 sq.m. (52800 sq.ft)				
	Labour required for 1000 sq.ft. (93 sq.m.)				
	Cooly required for:				
	Brushing off old surface	0.50	Nos.		
	Spraying bitumen for 1st coat	1.00	Nos.		
	Spreading crushed aggregate for 1st coat	1.00	Nos.		
	Brushing off loose aggregate after 1st coat	0.50	Nos.		
	Spraying bitumen for 2nd coat	0.50	Nos.		
	Spreading crushed aggregate for 2nd coat	0.50	Nos.		
	Brushing off loose blindage after final coat	0.50	Nos.		
	Total	4.50	Nos.	=	36.00 Hrs.
	For 4900 Sq.m. =	68 x 4900/ 93	1896.77	Hrs.	
	Materials				
	Bitumen 80/100				
	First coat	4900 x 1.96	9604.00	Kg	
	Second coat	4900 x 1.23	5978.00	Kg	
	Wastage	5%	779.10	Kg	
			<u>16361.10</u>	Kg	
	Crushed agg.				
	First coat	4900 x 0.017	83.30	Cu.m	
	Second coat	4900 x 0.008	39.20	Cu.m	
	Wastage	5%	6.13	Cu.m	
			128.63	Cu.m	
	1. Labour				
	Labourer	1896.77	Hrs	@	87.50 165,968
	Chowkidar	40.00	Hrs	@	87.50 3,500
	Contractor's profit & overhead			20%	33,894
	Total Labour rate				<u>41.50</u> 166.00
	2. Material				
	Bitumen 80/100	(including 5% wastage)	16361.10	Kg. @	80.00 1,308,888
	Crush approved		128.63	Cu.m. @	1059.30 136,252
	Wire brush		10.00	No. @	50.00 500
	Broom		10.00	No. @	35.00 350
	Sundries			1%	9
					<u>1,445,999</u>
	3. Tools and plant				
	Tar boiler & roller production/ day	325.00	Sq.m.		
	= 1 x 4900/ 325	15.08	Hrs		
	Tar boiler with sprayer	15.08	Hrs	@	125.00 1,885
	Road roller 10-12 ton capacity	15.08	Hrs	@	1154.00 17,402
					<u>19,287</u>
	4. Mobilization, demobilization & idle time @ 1%				
	Total of 2, 3 & 4				<u>193</u>
	Contractor's profit & overhead			20%	293,096
	Total				<u>1,758,575</u> A
	Total Composite rate = A /4900 + Lab. rate				400.40 400.40

Item No. 21-21-1

Sq.m. Surface dressing in three coats including supply of bitumen 80/100 or any approved grade and bajri of approved size and grade, of road surface with rolling.

a) First coat

35 lbs of bitumen blended with 4 Cu.ft. of 3/4" approved crushed aggregate per 100 sq.ft. (1.72 kg. of bitumen blended with 0.013 Cu.m. of 20mm size crushed aggregate per Sq.m.)

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
b) Second coat					
<i>18 lbs of bitumen blended with 2 Cu.ft. of 3/8" crushed aggregate per 100 sq.ft. (0.89 kg. of bitumen blended with 0.006 Cu.m. of 10mm size crushed aggregate per Sq.m.)</i>					
c) Third coat					
<i>14 lbs of bitumen blended with 1.5 Cu.ft. of 1/4" crushed aggregate per 100 sq.ft. (0.69 kg. of bitumen blended with 0.005 Cu.m. of 6 mm size crushed aggregate per Sq.m.)</i>					
Detail of cost for 4900 sq.m. (52800 sq.ft)					
Labour required for 1000 sq.ft. (93 sq.m.)					
Cooly required for:					
	Brushing off old surface	2.00	Nos.		
	Spraying bitumen for 1st coat	2.00	Nos.		
	Spreading crushed aggregate for 1st coat	2.50	Nos.		
	Brushing off loose aggregate after 1st coat	1.00	Nos.		
	Spraying bitumen for 2nd coat	2.50	Nos.		
	Spreading crushed aggregate for 2nd coat	1.50	Nos.		
	Brushing off loose aggregate after 2nd coat	1.00	Nos.		
	Spraying bitumen for 3rd coat	1.50	Nos.		
	Spreading crushed aggregate for 3rd coat	1.00	Nos.		
	Brushing off loose blindage after finalcoat	0.50	Nos.		
	Total	15.50	Nos.	= 48.00	Hrs.
	For 4900 Sq.m. = 124 x 4900/ 93	2529.03	Hrs.		
Materials					
Bitumen 80/100					
	First coat	4900 x 1.72	8428.00	Kg	
	Second coat	4900 x 0.89	4361.00	Kg	
	Third coat	4900 x 0.69	3381.00	Kg	
	Wastage	5%	808.50	Kg	
			<u>16978.50</u>	Kg	
Crushed agg.					
	First coat	4900 x 0.013	63.70	Cu.m	
	Second coat	4900 x 0.006	29.40	Cu.m	
	Third coat	4900 x 0.005	24.50	Cu.m	
	Wastage	5%	4.66	Cu.m	
			<u>122.26</u>	Cu.m	
1. Labour					
	Labourer	2529.03	Hrs	@ 87.50	221,290
	Chowkidar	72.00	Hrs	@ 87.50	6,300
	Contractor's profit & overhead			20%	45,518
	Total Labour rate				<u>55.74</u> 55.75
2. Material					
	Bitumen 80/100 (including 5% wastage)	16978.50	Kg.	@ 80.00	1,358,280
	Crush approved	122.26	Cu.m.	@ 1059.30	129,505
	Wire brush	12.00	No.	@ 50.00	600
	Broom	48.00	No.	@ 35.00	1,680
	Sundries			1%	14,901
					<u>1,504,965</u>
3. Tools and plant					
	Tar boiler & roller production/ day	255.00	Sq.m.		
	= 1 x 4900/ 300	24.00	Hrs		
	Tar boiler with sprayer	24.00	Hrs	@ 125.00	3,000
	Road roller 10-12 ton capacity	24.00	Hrs	@ 1154.00	27,696
					<u>30,696</u>
					921
	Total of 2, 3 & 4				<u>1,536,582</u>
	Contractor's profit & overhead			20%	307,316
	Total				<u>1,843,899</u> A
	Total Composite rate = A /4900 + Lab. rate				<u>432.04</u> 432.05

Item No. 21-22-1

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Sq.m.	Surface dressing on old surface with bitumen 80/100 or any other approved grade using 27 lbs. of bitumen with 4 Cu.ft of 1/4" or down grade approved crushed aggregate per 100 Sq.ft (1.22 kg. of bitumen with 0.012 Cu.m. per Sq.m. of 6.4 mm standard size crushed aggregate) of road surface with rolling				
	Detail of Cost for 4900 Sq.m. (52800 Sq.ft.)				
	Labour required for 1000 sq.ft. (93 sq.m.)				
	Cooly required for:				
	Brushing off old surface	3.00	Nos.		
	Spraying bitumen	3.00	Nos.		
	Spreading crushed aggregate	3.00	Nos.		
	Total	9.00	Nos.	= 72.00	Hrs.
	For 4900 Sq.m. = 72 x 4900/ 93	3793.55	Hrs.		
	Materials				
	Bitumen 80/100	4900 x 1.22	5978.00	Kg	
	Wastage	5%	298.90	Kg	
			6276.90	Kg	
	Crushed agg.	4900 x 0.012	58.80	Cu.m	
	Wastage	5%	2.94	Cu.m	
			61.74	Cu.m	
	1. Labour				
	Labourer	3793.55	Hrs @	87.50	331,935
	Chowkidar	71.27	Hrs @	87.50	6,236
	Contractor's profit & overhead			20%	67,634
	Total Labour rate				82.82
					82.80
	2. Material				
	Bitumen 80/100 (including 5% wastage)	6276.90	Kg. @	80.00	502,152
	Crush Pan	61.74	Cu.m. @	1059.30	65,401
	Wire brush	12.00	No. @	50.00	600
	Broom	25.00	No. @	35.00	875
	Sundries			2%	11,381
					580,409
	3. Tools and plant				
	Tar boiler & roller production/ day	550.00	Sq.m.		
	= 1 x 8 x 4900/ 643.5	71.27	Hrs		
	Tar boiler with sprayer	71.27	Hrs @	125.00	8,909
	Road roller 10-12 ton capacity	71.27	Hrs @	1154.00	82,249
					91,158
	4. Mobilization, demobilization & idle time @ 5%				33,578
	Total of 2, 3 & 4				705,145
	Contractor's profit & overhead			20%	141,029
	Total				846,174 ^A
	Total Composite rate = A /4900 + Lab. rate				255.51
					255.50
	Item No. 21-23-1				
Sq.m.	Providing and applying prime coat of liquid asphalt (cut back) of any approved grade using asphalt (cut back) including cleaning and brooming of road surface.				
	a) 1.07 kg. per sq.m.				
	Detail of Cost for 4900 Sq.m. (52800 Sq.ft.)				
	Materials				
	Bitumen 80/100	4900 x 1.07	5243.00	Kg	
	Wastage	5%	262.15	Kg	
			5505.15	Kg	
	1. Labour				
	Labourer	100.00	Hrs @	87.50	8,750
	Contractor's profit & overhead			20%	1,750
	Total Labour rate				2.14
					2.15
	2. Material				
	Bitumen 80/100	5505.15	Kg. @	80.00	440,412

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Oil kerosine	4900.00	Litre	@	88.00	431,200
	Sundries				2%	17,432
						<u>889,044</u>
	3. Tools and plant					
	Bitumen Distributor Tow Type (2000 liters)	6.00	Hrs	@	900.00	5,400
	Air compressor	6.00	Hrs	@	600.00	3,600
	4. Mobilization, demobilization & idle time @ 1%					17,961
	Total of 2, 3 & 4					<u>916,005</u>
	Contractor's profit & overhead				20%	183,201
	Total					<u>1,099,206</u> A
	Total Composite rate = A /4900 + Lab. rate					226.47 226.45

b) 0.515 kg. per sq.m.

Detail of Cost for 4900 Sq.m. (52800 Sq.ft.)

Materials

Bitumen 80/100	4900 x 0.515	2523.50	Kg
Wastage	5%	126.18	Kg
		2649.68	Kg

1. Labour

Labourer	100.00	Hrs	@	87.50	8,750
Contractor's profit & overhead				20%	1,750
Total Labour rate					<u>2.14</u> 2.15

2. Material

Bitumen 80/100	2649.68	Kg.	@	80.00	211,974
Oil kerosine	2450.00	Litre	@	88.00	215,600
Sundries				2%	8,551
					<u>436,125</u>

3. Tools and plant

Bitumen Distributor Tow Type (2000 liters)	6.00	Hrs	@	900.00	5,400
Air compressor	6.00	Hrs	@	600.00	3,600

4. Mobilization, demobilization & idle time @ 1%

Total of 2, 3 & 4					<u>8,903</u>
Contractor's profit & overhead				20%	90,806
Total					<u>544,834</u> A
Total Composite rate = A /4900 + Lab. rate					113.33 113.35

Item No. 21- 24-1

Sq.m. Providing and applying tack coat of bitumen 80/100 or 60/70 or of any approved grade using bitumen at including cleaning and brooming of road surface

a) 0.75 kg. of bitumen per sq.m.

Detail of Cost for 4900 Sq.m. (52800 Sq.ft.)

Materials

Bitumen 80/100	4900 x 0.75	3675.00	Kg
Wastage	5%	183.75	Kg
		3858.75	Kg

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
	Labourer	100.00	Hrs @ 87.50	8,750	
	Contractor's profit & overhead		20%	1,750.00	
	Total Labour rate			2.14	2.15
2. Material					
	Bitumen 80/100 (including 5% wastage)	3858.75	Kg. @ 80.00	308,700	
	Sundries		2%	6,174	
				314,874	
3. Tools and plant					
	Bitumen Distributor Tow Type (2000 liters)	6.00	Hrs @ 900.00	5,400	
	Air compressor	6.00	Hrs @ 600.00	3,600	
4. Mobilization, demobilization & idle time @ 1%					
	Total of 2, 3 & 4			3,239	
	Contractor's profit & overhead		20%	65,423	
	Total			392,535 ^A	
	Total Composite rate = A /4900 + Lab. rate			82.25	82.25

b) 0.308 kg. of bitumen per sq.m.

Detail of Cost for 4900 Sq.m. (52800 Sq.ft.) 0.00

Materials

Bitumen 80/100	4900 x 0.308	1509.20	Kg
Wastage	5%	75.46	Kg
		1584.66	Kg

1. Labour

Labourer	100.00	Hrs @ 87.50	8,750
Contractor's profit & overhead		20%	1,750.00
Total Labour rate			2.14

2.15

2. Material

Bitumen 80/100 (including 5% wastage)	1584.66	Kg. @ 80.00	126,773
Sundries		2%	2,535
			129,308

3. Tools and plant

Bitumen Distributor Tow Type (2000 liters)	6.00	Hrs @ 900.00	5,400
Air compressor	6.00	Hrs @ 600.00	3,600

4. Mobilization, demobilization & idle time @ 1%

Total of 2, 3 & 4			1,383
Contractor's profit & overhead		20%	27,938
Total			167,630 ^A

Total Composite rate = A /4900 + Lab. rate

36.35

36.35**Item No. 21- 25-1**

Sq.m. Surface dressing with bitumen 80/100 or any other approved grade on a priming coat of liquid asphalt (cut-back) of any approved grade using primer at 22 lbs. and bitumen at 35 lbs. with 5 cu.ft. of 1/2" and down gauge crushed aggregate per 100 sq.ft (primer at 1.07 kg and bitumen 1.71 kg with 0.015 cu.m. of 13 mm and down gauge crushed aggregate per sq.m.) of road surface with rolling.(including royalty of Quarry).

Detail of Cost for 4900 Sq.m. (52800 Sq.ft.)

Labour required for 1000 sq.ft. (93 sq.m.)

Cooly required for:

Brushing off old surface	2.00	Nos.	
Applying priming coat	2.00	Nos.	
Spraying bitumen	2.00	Nos.	
Spreading crushed aggregate	2.00	Nos.	
Total	8.00	Nos. =	64.00 Hrs.
For 4900 Sq.m. =	64 x 4900/ 93	3372.04	Hrs.

Materials

Asphalt (cut back)	4900 x 1.07	5243.00	Kg
Wastage	5%	262.15	Kg

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
		5505.15	Kg		
Bitumen 80/100	4900 x 1.71	8379.00	Kg		
Wastage	5%	418.95	Kg		
		8797.95	Kg		
Crushed agg.	4900 x 0.015	73.50	Cu.m		
Wastage	5%	3.68	Cu.m		
		77.18	Cu.m		
1. Labour					
Labourer		3372.04	Hrs @	87.50	295,054
Chowkidar		71.27	Hrs @	87.50	6,236
Contractor's profit & overhead				20%	60,258
Total Labour rate					73.79
					73.80
2. Material					
Liquid cut back asphalt		5505.15	Kg. @	70.00	385,361
Bitumen 80/100	(including 5% wastage)	8797.95	Kg. @	80.00	703,836
Crush Pan		77.18	Cu.m. @	1059.30	81,751
Wire brush		10.00	No. @	50.00	500
Broom		20.00	No. @	35.00	700
Sundries				1%	7,868

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
				1,180,016
	3. Tools and plant			
	Tar boiler & roller production/ day	743.50	Sq.m.	
	= 1 x 8 x 4900/ 743.5	52.72	Hrs	
	Tar boiler with sprayer	71.27	Hrs @ 125.00	8,909
	Road roller 10-12 ton capacity	71.27	Hrs @ 1154.00	82,249
				91,158
	4. Mobilization, demobilization & idle time @ 5%			63,559
	Total of 2, 3 & 4			1,334,732
	Contractor's profit & overhead		20%	266,946
	Total			1,601,679 A
	Total Composite rate = A /4900 + Lab. rate			400.66
				400.65

Item No. 21-26-1

Sq.m. **Providing and laying 1-1/2" (37.5 mm) consolidated thickness of asphalt concrete (road mix) using bitumen 80/100 or 60/70 or any approved grade with premixed coarse coarse sand flushing including compaction etc. (including royalty of Quarry).**

- a) *Using 3.5 lbs of bitumen per cu.ft. of 1/2" size crushed stone aggregate at 12 cu.ft per 100 sq.ft and 8 lbs of bitumen per cu.ft of coarse sand at 6 cu.ft per 100 sq.ft (56.06 kg bitumen per cu.m of 13 mm standard size crushed aggregate at 0.037 cu.m per sq.m. and 128.14 kg of bitumen per cu.m. of coarse sand at 0.018 cu.m. per sq.m) for asphalt concrete.*
- b) *Sand flushing with 2 cu.ft of sand mixed with 16 lbs of bitumen per 100 sq.ft of road surface including 5 lb of bitumen per 100 sq.ft. of road surface (0.006 sq.m of sand mixed with 0.78 kg of bitumen per sq.m of road surface including 0.24 kg of bitumen per sq.m. of road surface for painting edging with rolling.*

Detail of cost for 4900 sq.m. (52800 sq.ft)

Labour required for 1000 sq.ft. (93 sq.m.)

Cooly required for:

Brushing off old surface	4.00	Nos.	
Mixing and spreading	16.00	Nos.	
Painting road edges	2.00	Nos.	
Total	22.00	Nos.	= 176.00
For 4900 Sq.m. =	176 x 4900/ 93	9273.12	Hrs.

Materials

Bitumen 80/100	4900 x 0.037 x 56.06	10163.68	Kg
	4900 x 0.018 x 128.14	11301.95	Kg
	4900 x 0.006 x 0.78	22.93	Kg
	4900 x 0.24	1176.00	Kg
		22664.56	Kg
Wastage	5%	1133.23	Kg
		23797.79	Kg
Crushed agg.	4900 x 0.037	181.30	Cu.m
Wastage	5%	9.07	Cu.m
		190.37	Cu.m
Coarse sand	4900 x 0.018	88.20	Cu.m
Wastage	5%	4.41	Cu.m
		92.61	Cu.m
Sand for flushing	4900 x 0.006	29.40	Cu.m
Wastage	5%	1.47	Cu.m
		30.87	Cu.m

1. Labour

Labourer	9273.12	Hrs @ 87.50	811,398
Chowkidar	147.92	Hrs @ 87.50	12,943
Contractor's profit & overhead		20%	164,868
Total Labour rate			201.88
			201.90

2. Material

Bitumen 80/100	(including 5% wastage)	23797.79	Kg. @ 80.00	1,903,823
Approved Crushed Aggregate 1/2" & down gauge		190.37	Cu.m. @ 1235.00	235,101

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Approved Coarse Sand	92.61	Cu.m. @ 1059.30	98,102
	Sand local	30.87	Cu.m. @ 882.75	27,250
	Wire brush	12.00	No. @ 50.00	600
	Broom	25.00	No. @ 35.00	875
	Sundries		1%	22,658
				<u>2,288,408</u>
	3. Tools and plant			
	Bitumen mixer (large size) production/day	371.50	Sq.m.	
	= 1 x 8 x 4900/ 371.5	105.52	Hrs	
	Tar boiler & roller production/ day	265.00	Sq.m.	
	= 1 x 8 x 4900/ 265	147.92	Hrs	
	Bitumen mixer with fuel & operator	105.52	Hrs @ 1750.00	184,657
	Tar boiler with sprayer	147.92	Hrs @ 125.00	18,491
	Road roller 10-12 ton capacity	147.92	Hrs @ 1154.00	170,705
				<u>373,852</u>
	4. Mobilization, demobilization & idle time @ 5%			<u>133,113</u>
	Total of 2, 3 & 4			<u>2,795,374</u>
	Contractor's profit & overhead		20%	<u>559,075</u>
	Total			<u>3,354,448 A</u>
	Total Composite rate = A /4900 + Lab. rate			<u>886.46</u>
				886.45

Item No. 21- 27-1

Sq.m. **Providing and laying 2" (50 mm) consolidated thickness of asphalt concrete (road mix) using bitumen 80/100 of 60/70 or any approved grade with premixed coarse coarse sand flushing. (including royalty of Quarry).**

- a) *Using 3.5 lbs of bitumen per cu.ft. of 3/4" size crushed stone aggregate at 16 cu.ft per 100 sq.ft and 8 lbs of bitumen per cu.ft of coarse sand at 8 cu.ft per 100 sq.ft (56.06 kg bitumen per cu.m of 19 mm standard size crushed aggregate at 0.049 cu.m per sq.m. and 128.14 kg of bitumen per cu.m. of coarse sand at 0.024 cu.m. per sq.m) for asphalt concrete.*
- b) *Sand flushing with 2 cu.ft of sand mixed with 16 lbs of bitumen per 100 sq.ft.of road surface including 5 lb of bitumen per 100 sq.ft. of road surface (0.006 sq.m of sand mixed with 0.78 kg of bitumen per sq.m of road surface including 0.24 kg of bitumen per sq.m.of road surface for painting edging with rolling.*

Detail of cost for 4900 sq.m. (52800 sq.ft)

Labour required for 1000 sq.ft. (93 sq.m.)

For 4900 Sq.m. = 176 x 4900/ 93 9273.12 Hrs.

Materials

Bitumen 80/100 4900 x 0.049 x 56.06 13460.01 Kg

4900 x 0.024 x 128.14 15069.26 Kg

4900 x 0.006 x 0.78 22.93 Kg

4900 x 0.24 1176.00 Kg

29728.20 Kg

Wastage 5% 1486.41 Kg

31214.61 Kg

Crushed agg. 3/4" 4900 x 0.049 240.10 Cu.m

Wastage 5% 12.01 Cu.m

252.11 Cu.m

Coarse sand 4900 x 0.024 117.60 Cu.m

Wastage 5% 5.88 Cu.m

123.48 Cu.m

Sand for flushing 4900 x 0.006 29.40 Cu.m

Wastage 5% 1.47 Cu.m

30.87 Cu.m

1. Labour

Labourer 9273.12 Hrs @ 87.50 811,398

Chowkidar 147.92 Hrs @ 87.50 12,943

Contractor's profit & overhead 20% 164,868

Total Labour rate 201.88 **201.90**

2. Material

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
	Bitumen 80/100 (including 5% wastage)	31214.61	Kg.	@	80.00	2,497,169	
	Approved Crushed Aggregate 3/4" -3/8"	252.11	Cu.m.	@	1296.75	326,917	
	Approved Coarse Sand	123.48	Cu.m.	@	1059.30	130,802	
	Sand local	30.87	Cu.m.	@	882.75	27,250	
	Wire brush	12.00	No.	@	50.00	600	
	Broom	25.00	No.	@	35.00	875	
	Sundries				1%	29,836	
						<u>3,013,450</u>	
	3. Tools and plant						
	Bitumen mixer (large size) production/day	371.50	Sq.m.				
	= 1 x 8 x 4900/ 371.5	105.52	Hrs				
	Tar boiler & roller production/ day	265.00	Sq.m.				
	= 1 x 8 x 4900/ 265	147.92	Hrs				
	Bitumen mixer with fuel & operator	105.52	Hrs	@	1750.00	184,657	
	Tar boiler with sprayer	147.92	Hrs	@	125.00	18,491	
	Road roller 10-12 ton capacity	147.92	Hrs	@	1154.00	170,705	
						<u>373,852</u>	
	4. Mobilization, demobilization & idle time @ 5%					169,365	
	Total of 2, 3 & 4					<u>3,556,668</u>	
	Contractor's profit & overhead				20%	711,334	
	Total					<u>4,268,001</u> A	
	Total Composite rate = A /4900 + Lab. rate					1072.90	1072.90

Item No. 21-28-1

Sq.m. **Providing and laying 2-1/2" (62.5 mm) consolidated thickness of asphalt concrete (road mix) using bitumen 80/100 of 60/70 or any approved grade with premixed coarse coarse sand flushing. (including royalty of Quarry).**

- a) *Using 3.5 lbs of bitumen per cu.ft. of 1" size crushed stone aggregate at 20 cu.ft per 100 sq.ft and 8 lbs of bitumen per cu.ft of coarse sand at 10 cu.ft per 100 sq.ft (56.06 kg bitumen per cu.m of 25 mm standard size crushed aggregate at 0.06 cu.m per sq.m. and 128.14 kg of bitumen per cu.m. of coarse sand at 0.03 cu.m. per sq.m) for asphalt concrete.*
- b) *Sand flushing with 2 cu.ft of sand mixed with 16 lbs of bitumen per 100 sq.ft of road surface including 5 lb of bitumen per 100 sq.ft. of road surface (0.006 sq.m of sand mixed with 0.78 kg of bitumen per sq.m of road surface including 0.24 kg of bitumen per sq.m of road surface for painting edging with rolling.*

Detail of cost for 4900 sq.m. (52800 sq.ft)

Labour required for 1000 sq.ft. (93 sq.m.)

Cooly required same as in item 21-32

For 4900 Sq.m. = 176 x 4900/ 93 9273.12 Hrs.

Materials

Bitumen 80/100 4900 x 0.06 x 56.06 16481.64 Kg

4900 x 0.03 x 128.14 18836.58 Kg

4900 x 0.006 x 0.78 22.93 Kg

4900 x 0.24 1176.00 Kg

36517.15 Kg

Wastage 0.05 1825.86 Kg

38343.01 Kg

Crushed agg. 1" 4900 x 0.06 294.00 Cu.m

Wastage 0.05 14.70 Cu.m

308.70 Cu.m

Coarse sand 4900 x 0.03 147.00 Cu.m

Wastage 0.05 7.35 Cu.m

154.35 Cu.m

Sand for flushing 4900 x 0.006 29.40 Cu.m

Wastage 0.05 1.47 Cu.m

30.87 Cu.m

1. Labour

Labourer 9273.12 Hrs @ 87.50 811,398

Chowkidar 147.92 Hrs @ 87.50 12,943

Contractor's profit & overhead 20% 164,868

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		201.88	201.90
	2. Material			
	Bitumen 80/100 (including 5% wastage)	38343.01	Kg. @ 80.00	3,067,441
	Approved Crushed Aggregate 3/8" & No. 4	308.70	Cu.m. @ 1358.50	419,369
	Approved Coarse Sand	154.35	Cu.m. @ 1059.30	163,503
	Sand local	30.87	Cu.m. @ 882.75	27,250
	Wire brush	12.00	No. @ 50.00	600
	Broom	25.00	No. @ 35.00	875
	Sundries		1%	36,790
				<u>3,715,829</u>
	3. Tools and plant			
	Bitumen mixer (large size) production/day	371.50	Sq.m.	
	= 1 x 8 x 4900/ 371.5	105.52	Hrs	
	Tar boiler & roller production/ day	265.00	Sq.m.	
	= 1 x 8 x 4900/ 265	147.92	Hrs	
	Bitumen mixer with fuel & operator	105.52	Hrs @ 1750.00	184,657
	Tar boiler with sprayer	147.92	Hrs @ 125.00	18,491
	Road roller 10-12 ton capacity	147.92	Hrs @ 1154.00	170,705
				373,852
	4. Mobilization, demobilization & idle time @ 5%			204,484
	Total of 2, 3 & 4			<u>4,294,165</u>
	Contractor's profit & overhead		20%	858,833
	Total			<u>5,152,998</u> A
	Total Composite rate = A /4900 + Lab. rate			1253.51 1253.50

Item No. 21-29-1

Sq.m.

Providing and laying 1" (25 mm) consolidated thickness of premixed sheet asphalt using liquid asphalt (cut-backs) of approved grade using cut-backs at 20 lbs per 100 sq.ft (0.976 kg per sq.m.) for tack coat 3.5 lbs per cu.ft of 1/2" (56.06 kg per cu.m of 13 mm) standard size crushed stone at 5.50 cu.ft per sq.ft and 8 lbs of bitumen per cu.ft (0.016 cu.m. per sq.m. and 128.14 kg per cu.m.) or coarse sand at 5.50 cu.ft per 100 sq.ft (0.016 cu.m. per sq.m) of road surface, with rolling (including royalty of Quarry).

Detail of Cost for 4900 Sq.m. (52800 Sq.ft.)

Labour required for 1000 sq.ft. (93 sq.m.)

Cooly required for:

Brushing off old surface		2.00	Nos.		
For mixing, spreading		10.00	Nos.		
Total		12.00	Nos.	=	96.00 Hrs.
For 4900 Sq.m. =	96 x 4900/ 93	5058.06	Hrs.		
Materials					
Asphalt (cut back)	4900 x 0.976	4782.40	Kg		
for crushed stone	4900 x 0.9395	4603.55	Kg		
for coarse sand	4900 x 2.14	10486.00	Kg		
Wastage	0.05	993.60	Kg		
		20865.55	Kg		
Crushed agg.	4900 x 0.01676	82.12	Cu.m		
Wastage	0.05	4.11	Cu.m		
		86.23	Cu.m		
Coarse sand	4900 x 0.01676	82.12	Cu.m		
Wastage	0.05	4.11	Cu.m		
		86.23	Cu.m		

1. Labour

Labourer	5058.06	Hrs @ 87.50	442,581
Chowkidar	71.27	Hrs @ 87.50	6,236
Contractor's profit & overhead		20%	89,763
Total Labour rate			<u>109.91</u> 109.90

2. Material

Liquid cut back asphalt	20865.55	Kg. @ 70.00	1,460,588
Approved Crushed Aggregate 1/2" & down gauge	86.23	Cu.m. @ 1235.00	106,494

Unit	Description	Component Cost			Unit Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Approved Coarse Sand	86.23	Cu.m.	@ 1059.30	91,344
	Wire brush	10.00	No.	@ 50.00	500
	Broom	20.00	No.	@ 35.00	700
	Sundries			1%	1,990
					<u>1,661,617</u>
	3. Tools and plant				
	Bitumen mixer (large size) production/day	371.50	Sq.m.		
	= 1 x 8 x 4900/ 371.5	105.52	Hrs		
	Bitumen mixer with fuel & operator	105.52	Hrs	@ 1750.00	184,657
	Tar boiler with sprayer	105.52	Hrs	@ 125.00	13,190
	Road roller 10-12 ton capacity	105.52	Hrs	@ 1154.00	121,768
					319,615
	4. Mobilization, demobilization & idle time @ 5%				99,062
	Total of 2, 3 & 4				<u>2,080,293</u>
	Contractor's profit & overhead			20%	416,059
	Total				<u>2,496,351</u> A
	Total Composite rate = A /4900 + Lab. rate				619.37
					619.35

Item No. 21- 30-1

Tonne

Providing and laying hot-mix bituminous concrete runway pavement laid with mechanical paver and mixed in central mixing plant in required thickness and density, rolled hot with different types of rollers complete as per specifications and job-mix formula and design upto 1.5 " (37.5 mm) thickness.

Detail of cost for 100 tons

Labour required for 1000 sq.ft. (93 sq.m.)

Cooly required for:

Brushing off existing surface	2.00	Nos.		
Applying tack coat	2.00	Nos.		
Pouring material in plant and paver	18.00	Nos.		
Total	22.00	Nos.	=	176.00 Hrs.
For 1115 Sq.m. =	176 x 1115/ 93	2110.11	Hrs.	

As per job mix formula marshal stability 1800 lbs per sq.in. and density 150 lbs/cft., 1.5" thick layer for 120 sq.ft of surface area = $120 \times 3/2 \times 1/12 = 15$ cu.ft.

According to the above density 15 cu.ft will weigh $150 \times 15 = 2250$ lbs say one ton. As per job mix formula take the weight of dry mix = 2133 lbs with break up:

Crushed stone 3/4"	52% of 2133	1109.16	Lbs.	=	503.11	Kgs.
Sand	46% of 2133	981.18	Lbs.	=	445.06	Kgs.
Cement	2% of 2133	42.66	Lbs.	=	19.35	Kgs.
Bitumen 80/100	5% of 2133	106.65	Lbs.	=	48.38	Kgs.
Total		<u>2239.65</u>	Lbs.	=	<u>1015.90</u>	Kgs.

Hence material for 100 tons to cover 12000 sq.ft (1115sq.m.) pavement crushed stone size 3/4" to down gauge

Crushed aggregate	503x100x1/1600	31.44	Cu.m.
Sand	445x100x1/1600	27.81	Cu.m.
Cement	19.5x100	1950.00	Kg.
Bitumen 80/100	48.5 x 100	4850.00	Kg.
Bitumen tack coat	0.976 x 1115	1088.24	Kg.
		5938.24	Kg.

1. Labour

Labourer	2110.11	Hrs	@	87.50	184,634
Chowkidar	72.00	Hrs	@	87.50	6,300
Contractor's profit & overhead				20%	38,187
Total Labour rate					<u>2255.01</u>
					2255.00

2. Material

Bitumen 80/100	5938.24	Kg.	@	80.00	475,059
Approved Crushed Aggregate 3/4" -3/8"	31.44	Cu.m.	@	1235.00	38,825
Approved Coarse Sand	27.81	Cu.m.	@	1059.30	29,462
Cement OPC	1950.00	Kg.	@	10.50	20,475
Wire brush	3.00	No.	@	50.00	150
Broom	5.00	No.	@	35.00	175

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Sundries	1%	2,821	
			566,967	
	3. Tools and plant			
	Hire charge of asphalt mixing plant at an estimated output of 30 tons per hour together with the following :			
	- Boiler with sprayer			
	- Paver machine			
	- Crane 2 Nos.			
	- Tipping truck 6 Nos.			
	Duration	100x1/30	3.33	Hrs.
	Asphalt mixing plant including other		3.33	Hrs @ 25411.00
	Pneumatic tyre roller		8.00	Hrs @ 2135.00
	Road roller 10-12 ton capacity		8.00	Hrs @ 1154.00
				9,232
				111,015
	4. Mobilization, demobilization & idle time @ 5%			33,899
	Total of 2, 3 & 4			711,881
	Contractor's profit & overhead	20%		142,376
	Total			854,258 A
	Total Composite rate = A /100 x 0.9842 + Lab. rate			10,662.62
				10662.60

Item No. 21-31-1
Tonne Providing and laying hot-mix bituminous concrete runway pavement laid with mechanical paver and mixed in central mixing plant in required thickness and density, roled hot with different types of rollers complete as per specifications and job-mix formula and design upto 3" (75mm) thickness.

Detail of cost for 200 tons

Labour required for 1000 sq.ft. (93 sq.m.)

Cooly required for:

Brushing off existing surface	2.00	Nos.		
Applying tack coat	2.00	Nos.		
Pouring material in plant and paver	36.00	Nos.		
Total	40.00	Nos.	=	320.00 Hrs.
For 1115 Sq.m. =	320 x 1115/ 93	3836.56	Hrs.	
Material required is twice of item 21-38 except bitumen for tack coat				
Crushed aggregate	2 x 503x100x1/1600	62.88	Cu.m.	
Sand	2 x 445x100x1/1600	55.63	Cu.m.	
Cement	2 x 19.5x100	3900.00	Kg.	
Bitumen 80/100	2 x 48.5 x 100	9700.00	Kg.	
Bitumen tack coat	0.976 x 1115	1088.24	Kg.	
		10788.24	Kg.	

1. Labour

Labourer	3836.56	Hrs @	87.50	335,699
Chowkidar	128.00	Hrs @	87.50	11,200
Contractor's profit & overhead		20%		69,380
Total Labour rate				2048.51
				2048.50

2. Material

Bitumen 80/100	10788.24	Kg. @	80.00	863,059
Approved Crushed Aggregate 3/4" -3/8"	62.88	Cu.m. @	1235.00	77,651
Approved Coarse Sand	55.63	Cu.m. @	1059.30	58,924
Cement OPC	3900.00	Kg. @	10.50	40,950
Wire brush	5.00	No. @	50.00	250
Broom	8.00	No. @	35.00	280
Sundries			1%	5,206
				1,046,319

3. Tools and plant

Duration	200x1/30	6.67	Hrs.	
Asphalt mixing plant including other equipment		6.67	Hrs @	25411.00
Pneumatic tyre roller		16.00	Hrs @	2135.00
Road roller 10-12 ton capacity		16.00	Hrs @	1154.00
				18,464
				222,031

4. Mobilization, demobilization & idle time @ 5%

63,417

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total of 2, 3 & 4	1,331,767	
	Contractor's profit & overhead	20%	266,353
	Total		1,598,121 A
	Total Composite rate = A /200 x 0.9842 + Lab. rate		9,912.86
			9912.85

Item No. 21 - 32

Providing and laying hot-mix bituminous concrete in road pavement laid with mechanical paver and mixed in central mixing plant in required thickness and density, rolled hot with different types of rollers complete as per specifications and job-mix formula and design in single layer

Sq.m. a) 1" (25 mm) thick.

Detail of cost for 100 tons

Labour required for 1000 sq.ft. (93 sq.m.)

Cooly required for:

Brushing off existing surface	4.00	Nos.		
Applying tack coat	4.00	Nos.		
Pouring material in plant and paver	24.00	Nos.		
Total	32.00	Nos.	= 256.00	Hrs.
For 1152.5 Sq.m. =	256 x 1152.5/ 93	3172.47	Hrs.	

As per job mix formula marshal stability 1200 lbs per sq.in. and density 145 lbs/ cu.ft.

1.5" thick layer for 124 sq.ft of surface area = $124 \times 3/2 \times 1/12 = 15.5$ cu.ft.According to the above density 15.5 cu.ft will weigh $145 \times 15.5 = 2247$ lbs say one

ton. As per job mix formula the weight of dry mix = 2144 lbs with break up:

Crushed stone	50% of 2144	1072.00	Lbs.	=	486.26	Kgs.
Sand	49% of 2144	1050.56	Lbs.	=	476.53	Kgs.
Cement	1% of 2144	21.44	Lbs.	=	9.73	Kgs.
Bitumen 80/100	4.5% of 2144	96.48	Lbs.	=	43.76	Kgs.
Total		2240.48	Lbs.	=	1016.28	Kgs.

Hence material for 100 tons to cover 12400 sq.ft (1152.5 sq.m.) pavement crushed stone size 3/4" to down gauge

Crushed aggregate	486x100x1/1600	30.39	Cu.m.		
Sand	476.5x100x1/1600	29.78	Cu.m.		
Cement	9.73x100	972.51	Kg.		
Bitumen 80/100	43.76 x 100	4376.30	Kg.		
Bitumen tack coat	0.976 x 1152.5	1124.84	Kg.		
		5501.14	Kg.		

1. Labour

Labourer	3172.47	Hrs	@	87.50	277,591
Chowkidar	64.00	Hrs	@	87.50	5,600
Contractor's profit & overhead				20%	56,638
Total Labour rate					196.59
					196.60

2. Material

Bitumen 80/100	5501.14	Kg.	@	80.00	440,092
Approved Crushed Aggregate 3/4" -3/8"	30.39	Cu.m.	@	1296.75	39,410
Approved Coarse Sand	29.78	Cu.m.	@	1059.30	31,549
Cement OPC	972.51	Kg.	@	10.50	10,211
Wire brush	3.00	No.	@	50.00	150
Broom	5.00	No.	@	35.00	175
Sundries				1%	2,608
					524,195

3. Tools and plant

Same as in item 21-30

Asphalt mixing plant including other equipment	3.33	Hrs	@	25411.00	84,703
Pneumatic tyre roller	8.00	Hrs	@	2135.00	17,080
Road roller 10-12 ton capacity	8.00	Hrs	@	1154.00	9,232
					111,015

4. Mobilization, demobilization & idle time @ 5%

Total of 2, 3 & 4					666,971
Contractor's profit & overhead				20%	133,394
Total					800,365 A
Total Composite rate = A /100 x 10.76/124 x 1/1.5 + Lab. rate					659.60
					659.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Sq.m. b) 1-1/2" (37.5 mm) thick

Total Labour rate 1.5 times of item 21-32(a)	294.88	294.90
Total Composite rate 1.5 times of item 21-32(a)	989.39	989.40

Sq.m. c) 2" (50 mm) thick

Total Labour rate (twice of item 21-32(a))	393.18	393.20
Total Composite rate (twice of item 21-32(a))	1319.19	1319.20

Item No. 21- 33

Providing and laying hot-mix bituminous concrete in road pavement laid with mechanical paver and mixed in central mixing plant in required thickness and density, rolled hot with different types of rollers complete as per specifications and job-mix formula and design in double layers

Sq.m. a) 2-1/2" (75 mm) thick

Detail of cost for 200 tons

Labour required for 1000 sq.ft. (93 sq.m.)

Cooly required for:

Brushing off existing surface	4.00	Nos.		
Applying tack coat	4.00	Nos.		
Pouring material in plant and paver	48.00	Nos.		
Total	56.00	Nos.	=	448.00 Hrs.
For 1152.5 Sq.m. =	448 x 1152.5/ 93	5551.83	Hrs.	

Material Twice of item 21-40

Hence material for 200 tons to cover 12400 sq.ft (1152.5 sq.m.) pavement crushed stone size 3/4" to down gauge

Crushed aggregate	2 x486x100x1/1600	60.75	Cu.m.	
Sand	2 x 476.5x100x1/1600	59.56	Cu.m.	
Cement	2 x 9.73x100	1946.00	Kg.	
Bitumen 80/100	2 x 43.76 x 100	8752.00	Kg.	
Bitumen tack coat	0.976 x 1152.5	1124.84	Kg.	
		9876.84	Kg.	

1. Labour

Labourer	5551.83	Hrs	@	87.50	485,785
Chowkidar	128.00	Hrs	@	87.50	11,200
Contractor's profit & overhead				20%	99,397
Total Labour rate					431.25

2. Material

Bitumen 80/100	9876.84	Kg.	@	80.00	790,147
Approved Crushed Aggregate 3/4" -3/8"	60.75	Cu.m.	@	1296.75	78,778
Approved Coarse Sand	59.56	Cu.m.	@	1059.30	63,095
Cement OPC	1946.00	Kg.	@	10.50	20,433
Wire brush	3.00	No.	@	50.00	150
Broom	5.00	No.	@	35.00	175
Sundries				1%	4,764
					957,541

3. Tools and plant

Asphalt mixing plant including other equipment	6.67	Hrs	@	25411.00	169,407
Pneumatic tyre roller	16.00	Hrs	@	2135.00	34,160
Road roller 10-12 ton capacity	16.00	Hrs	@	1154.00	18,464
					222,031

4. Mobilization, demobilization & idle time @ 5%

Total of 2, 3 & 4					1,238,550
Contractor's profit & overhead				20%	247,710
Total					1,486,261 A
Total Composite rate = A /200 x 10.76/124 x 2.5/1.5 + Lab. rate					1506.00
					1506.00

Sq.m. b) 3" (75 mm) thick

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate (1.2 times of item 21-33(a))	517.51	517.50
	Total Composite rate (1.2 times of item 21-33(a))	1807.20	1807.20
	Item No. 21- 34		
Sq.m.	a) Providing and laying 4" (100 mm) thick not leaner than 1:2:4 cement concrete in roads, paths, creteways using 3/4" (19mm) and down gauge crushed stone in panels of approved size laid to required gradient and camber over any sub-grade including cost of necessary formwork and its removal, compacting with vibrators (immersion or screed or both) belting the surface with canvas belt, roughening the surface after laying concrete with brush and curing.(including royalty of Quarry).		
	Detail of cost for 10 Sq.m.		
	Concrete 107.6 x 100 mm/304.8	35.30 Cu.ft. = 1.00	Cu.m.
	1. Labour		
	Mason	2.00 Hrs @ 125.00	250.00
	Labourer	8.00 Hrs @ 87.50	700.00
	Bahishti	2.00 Hrs @ 87.50	175.00
	Mistri	1.00 Hrs @ 110.00	110.00
			<u>1235.00</u>
	Contractor's profit & overhead	20%	269.00
	Total Labour rate		<u>150.40</u> 150.40
	2. Material		
	Cement OPC	320.00 Kgs. @ 10.50	3,360
	Sand local	0.44 Cu.m. @ 882.75	388
	Crushed Aggregate 3/4" & down gauge	0.88 Cu.m. @ 1358.50	1,195
			<u>4,944</u>
	3. Plant & Equipment		
	Same as in item 5-5(a)		214
	4. Formwork and sundries.	5%	<u>258</u>
			5,416
	Contractor's profit & overhead	20%	1,083
	Total Composite rate		<u>800.29</u> 800.30
Sq.m.	b) Extra for every additional thickness of 1/2" (13 mm) concrete		
	Total Labour rate (0.13 times of item 21-34(a))	19.55	19.55
	Total Composite rate (0.13 times of item 21-34(a))	104.04	104.05
Sq.m.	c) Deduction for every lesser thickness of 1/2" (13mm)		
	Rate same as in item (b) above		
	Total Labour rate (0.13 times of item 21-34(a))	19.55	19.55
	Total Composite rate (0.13 times of item 21-34(a))	104.04	104.05

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 21- 35					
Sq.m.	a) Same as Item No.21-34 but with 1:3:6 cement concrete instead of 1:2:4				
	Detail of cost for 10 sq.m.				
	Concrete	107.6 x 100 mm/304.8	35.30	Cu.ft. = 1.00	Cu.m.
	1. Labour				
	Total Labour	Same as in item 21- 34(a)			150.40
					150.40
	2. Material				
	Cement OPC		220.00	Kgs. @ 10.50	2,310
	Sand local		0.46	Cu.m. @ 882.75	406
	Crushed Aggregate 3/4" & down gauge		0.92	Cu.m. @ 1358.50	1,250
					<u>3,966</u>
	3. Plant & Equipment				
	Same as in item 5-5(a)				214
	4. Formwork and sundries.			5%	209
					<u>4,389</u>
	Contractor's profit & overhead			20%	878
	Total Composite rate				<u>677.07</u>
					677.05
Sq.m.	b) Extra for every additional thickness of 1/2" (13mm) concrete				
	Total Labour rate (0.13 times of item 21- 34(a))				19.55
					19.55
	Total Composite rate (0.13 times of item 21- 34(a))				88.02
					88.00
Sq.m.	c) Deduction for every lesser thickness of 1/2" (13mm)				
	Rate same as in item				
	Total Labour rate (0.13 times of item 21- 34(a))				19.55
					19.55
	Total Composite rate (0.13 times of item 21- 34(a))				88.02
					88.00
Item No. 21- 36					
Sq.m.	a) Same as Item No.21- 34 but with 1: 1.5 :3 cement concrete instead of 1:2:4				
	Detail of cost for 10 sq.m.				
	Concrete	107.6 x 100 mm / 304.8	35.30	Cu.ft. = 1.00	Cu.m.
	1. Labour				
	Total Labour rate	Same as in item 21- 34(a)			150.40
					150.40
	2. Material				
	Cement OPC		400.00	Kgs. @ 10.50	4,200
	Sand local		0.42	Cu.m. @ 882.75	371
	Crushed Aggregate		0.84	Cu.m. @ 1358.50	1,141
					<u>5,712</u>
	3. Plant & Equipment				
	Same as in item 5-5(a)				214
	4. Formwork and sundries.			5%	296
					<u>6,222</u>
	Contractor's profit & overhead			20%	1,244
	Total Composite rate				<u>897.06</u>
					897.05
Sq.m.	b) Extra for every additional thickness of 1/2" (13mm) concrete				
	Total Labour rate (0.13 times of item 21-36(a))				19.55
					19.55
	Total Composite rate (0.13 times of item 21-36(a))				116.62
					116.60
Sq.m.	c) Deduction for every lesser thickness of 1/2" (13mm)				
	Rate same as in item				
	Total Labour rate (0.13 times of item 21-36(a))				19.55
					19.55
	Total Composite rate (0.13 times of item 21-36(a))				116.62
					116.60

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Sq.m.	d) Extra if 3/4" (19 mm) and down gauge Crushed Aggregate is used instead of local crushed stone				
	Difference in cost of approved and local crushed stone				
	Approved Crushed Aggregate 3/4" -3/8"	0.84	Cu.m. @	1296.75	1,089.27
	Crushed Aggregate 3/4" & down gauge	0.84	Cu.m. @	1358.50	1141.14
					-51.87
	Water charges			1.5%	-0.78
					-52.65
	Contractor's profit & overhead			20%	-10.53
	Total Composite rate				-6.32
					-6.30
	Item No. 21- 37-1				
Sq.m.	Providing and laying bitumenised water proof paper of best quality under cement concrete.				
	Detail of cost for 10 Sq.m.				
	1. Labour				
	Labourer	4.00	Hrs @	87.50	350.00
	Contractor's profit & overhead			20%	70.00
	Total Labour rate				42.00
					42.00
	2. Material				
	Bitumen felt 3 ply	10.50	Sq.m @	225.00	2,362.50
	Contractor's profit & overhead			20%	472.50
	Total Composite rate				325.50
					325.50
	Item No. 21- 38-1				
Sq.m.	Providing and laying polythene sheet 0.005" thick (0.05mm 500gauge) under cement concrete.				
	Detail of cost for 10 Sq.m.				
	1. Labour				
	Labourer	4.00	Hrs @	87.50	350.00
	Contractor's profit & overhead			20%	70.00
	Total Labour rate				42.00
					42.00
	2. Material				
	Polythene sheet	10.50	Sq.m @	80.00	840.00
	Contractor's profit & overhead			20%	168.00
	Total Composite rate				142.80
					142.80
	Item No. 21- 39-1				
Sq.m.	Providing and laying 2" (50 mm) thick sand cushion (blanket course) under cement concrete.				
	Detail of cost for 10 Sq.m.				
	Sand	107.6 x 50 /304.80	17.65	Cu.ft.	
	Wastage & swell factor @ 30%		5.30	Cu.ft.	
			22.95	Cu.ft. =	0.65
					Cu.m.
	1. Labour				
	Labourer	3.00	Hrs @	87.50	262.50
	Contractor's profit & overhead			20%	52.50
	Total Labour rate				31.50
					31.50
	2. Material				
	Sand local	0.65	Cu.m. @	882.75	573.65
	Contractor's profit & overhead			20%	114.73
	Total Composite rate				100.34
					100.35

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 21- 40-1				
Cu.m.	Providing and laying 1:4:8 cement concrete in any thickness using 1-1/2" (37mm) and down gauge stone ballast of approved grade and quality over prepared sub-grade or sand cushion in roads, paths crete-ways laid to required gradient and camber including cost of necessary formwork and its removal compacting with vibrators including curing.			
	1. Labour			
	Mason	1.70	Hrs @ 125.00	212.50
	Labourer	12.50	Hrs @ 87.50	1093.75
	Bahishti	2.00	Hrs @ 87.50	175.00
	Mistri	0.25	Hrs @ 110.00	27.50
				1508.75
	Contractor's profit & overhead		20%	301.75
	Total Labour rate			1810.50
				1810.50
	2. Material			
	Cement OPC	170.00	Kgs. @ 10.50	1,785.00
	Sand local	0.47	Cu.m. @ 882.75	414.89
	Crushed Aggregate 1-1/2" & down gauge	0.95	Cu.m. @ 1111.50	1055.93
				3,255.82
	3. Plant & Equipment			
	Vibrator including operator	0.25	Hrs @ 175.00	43.75
	Total			3,299.57
	Contractor's profit & overhead		20%	659.91
	Total Composite rate			5,769.98
				5770.00
Item No. 21- 41				
Tonne	a) Providing fabricating and laying M.S. reinforcement bars Grade 36 with and including the cost of straightening, cutting, bending, binding, wastage and such overlaps as are not shown in the drawings, binding wire, cement concrete 1:2:4 precast or M.S. chairs and placing in position on cement concrete precast or M.S chairs, tying with binding wire etc., in all kinds of R.C.C. roads, paths and runways etc.			
	Total Labour rate	Rate same as for item 5-43(a)		7,845.00
				7845.00
	Total Composite rate	Rate same as for item 5-43(a)		115,717.80
				115717.80
Tonne	b) Same as Item no. 21-31 (a) except Grade 40 steel reinforcement bars to be used instead of M.S. Grade 36 reinforcing bars.			
	Total Labour rate	Rate same as for item 5- 44(a)		7,845.00
				7845.00
	Total Composite rate	Rate same as for item 5-44(a)		121,946
				121945.80
Tonne	c) Extra over item no. 21- 31 (b) for deformed Grade 60 bars instead of Grade 40 reinforcing bars.			
	Total Composite rate	Rate same as for item 5-44(h)		128,366
				128365.80

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 21- 42-1

Tonne

Providing and laying M.S. ties or dowel bars of required length and diameters in longitudinal, transverse or other type of joints of cement concrete slabs laid and held in position in formwork or on precast chairs at various spacings including straightening, cutting, wastage, etc. and including the cost of M.S sheet caps, painting and greasing of bars where required as per design.

Total Labour rate		7,845	7845.00
Rate same as for item 21- 41(a)		115,718	
Add extra for caps, painting and greasing	2%	2,314	
Contractor's profit & overhead	20%	462.87	
Total Composite rate		118,495.03	118495.05

Item No. 21- 43-1

Cu.m.

Providing and spreading bajri of any size and upto any thickness to template in paths and drive ways including watering and rolling with hand roller complete with all lead and lift. (including royalty of Quarry).

Detail of cost for 7 Cu.m.

Considering an area of 1000 sq.ft. (935 sq.m.).

1. Labour

Labourer	20.00	Hrs	@	87.50	1750.00
Bahishti	8.00	Hrs	@	87.50	700.00
					<u>2450.00</u>
Contractor's profit & overhead				20%	490.00
Total Labour rate					<u>420.00</u>

2. Material

Bajri 7.00 Cu.m. @ 1235.00 8645.00

3. Plant & Equipment

Hand roller 1/2 ton 8.00 Hrs @ 34.00 272.00

Total 8,917.00

Contractor's profit & overhead 20% 1,783.40

Total Composite rate 1,948.63 **1948.65****Item No. 21- 44-1**

Cu.m.

Providing and spreading coarse sand to template in paths and drive ways including watering and rolling with hand roller complete, with all lead and lift.

Detail of cost for 7 Cu.m.

Considering an area of 1000 sq.ft. (935 sq.m.).

1. Labour

Labourer	20.00	Hrs	@	87.50	1750.00
Bahishti	8.00	Hrs	@	87.50	700.00
					<u>2450.00</u>
Contractor's profit & overhead				20%	490.00
Total Labour rate					<u>420.00</u>

2. Material

Approved Coarse Sand 7.00 Cu.m. @ 1059.30 7415.10

3. Plant & Equipment

Hand roller 1/2 ton 7.00 Hrs @ 34.00 238.00

Total 7,653.1

Contractor's profit & overhead 20% 1,530.6

Total Composite rate 1,732.0 **1731.95**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 21- 45-1

R.M. Providing bitumen filler of approved proprietary brand in expansion joints using 90lbs of bitumen, 0.2lbs of cement and 0.8cu.ft of sand per cu.ft (1442 kg of bitumen, 3.2kg of cement and 0.8cu.m. per cu.m.) of filler and fixing in position in an approved manner or as directed by the Engineer.

Detail of cost for 20 cu.ft or 960 Rft.

Material

Considering a joint of 1/2" wide, 6" deep & 960 ft long

Joint	960x.50x1/12x6/12 =	20.00	Cu.ft.			
Bitumen	90 x 20	1800.00	Lbs.			
Wastage @ 5%		90.00	Lbs.			
		1890.00	Lbs.	=	857.30	Kg.
Cement 0.2x20	0.2 x 20	4.00	Cu.ft.			
Wastage @ 5%		0.20	Cu.ft.			
		4.20	Cu.ft.	=	1.91	Kg.
1. Labour						
Mason		8.00	Hrs @	125.00		1000.00
Labourer		8.00	Hrs @	87.50		700.00
						1700.00
Contractor's profit & overhead				20%		340.00
Total Labour rate						6.97

6.95

2. Material

Bitumen 80/100		857.30	Kg. @	80.00		68,583.87
Cement OPC		1.91	Kg. @	10.50		20.05
Fuel wood		370.00	Kg. @	15.00		5550.00
Approved Coarse Sand		0.48	Cu.m. @	1059.30		508.46
Total						74,662.38
Contractor's profit & overhead				20%		14,932.48
Total Composite rate						313.18

313.20**Item No. 21- 46-1**

R.M. Providing and fixing PVC water-stop expansion joint plain 6" to 7" (150mm to 175mm) wide placed horizontally at 2" (50mm) depth from top surface of pavement, 1/2" (13mm) wide joint filler of fibre board in bottom and top filled with premoulded bitumen filler of approved proprietary brand.

Detail of cost for 30 R.M.

1. Labour

Mason		50.00	Hrs @	125.00		6250.00
Labourer		85.00	Hrs @	87.50		7437.50
						13687.50
Contractor's profit & overhead				20%		2737.50
Total Labour rate						547.50

547.50

2. Material

PVC water stop 6" wide		30.00	R.M. @	233.00		6,990.00
Fibre board 1/2" thick		30.00	R.M. @	1120.09		33,602.56
Bitumen filler -		30.00	R.M. @	65.00		1,950.00
Total						42,542.56
Contractor's profit & overhead				20%		8,508.51
Total Composite rate						2,249.20

2249.20**Item No. 21- 47-1**

R.M. Providing and filling dummy joint 1/4" (6.4mm) wide and 3" (75mm) deep in roads, paths or crete-ways etc. with premoulded bitumen filler of approved proprietary brand.

Detail of cost for 20 cu.ft or 960 Rft.

Total Labour rate	Same as in item 21- 45-1					6.97
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6.95

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
2. Material	1/4 of item 21 - 45-1				
	Bitumen 80/100	214.32	Kg. @	80.00	17,145.97
	Cement OPC	0.48	Kg. @	10.50	5.01
	Fuel wood	92.50	Kg. @	15.00	1387.50
	Approved Coarse Sand	0.12	Cu.m. @	1059.30	127.12
	Total				18,665.59
	Contractor's profit & overhead			20%	3,733.12
	Total Composite rate				83.52
					83.50

Item No. 21- 48**R.M. Providing and making formwork for longitudinal joint of tongued and grooved type in RCC or cement concrete pavement**

Detail of cost for 100 R.ft.

Cost of extra shuttering partial wood or similar

	100x1/3x1/8	4.17	Cu.ft		
	100x1/2x1/12	4.17	Cu.ft		
	Supports	16x2x1/3x1/6	1.78	Cu.ft	
	Wastage @ 10%		1.01	Cu.ft	
	1. Labour		11.12	Cu.ft	
	Carpenter		12.00	Hrs @	125.00
	Labourer		12.00	Hrs @	87.50
	Total				2,550.00
	2. Material				
	Wood - Partial	11.12	Cu.ft. @	1200.00	13,346.67
	Sawing charges	11.12	Cu.ft. @	87.50	973.19
	Total				14,319.86
	Total (1 + 2)				16,869.86
	Assume 20 uses	A / 20			843.49
	Repair charges, oiling			2%	16.87
					860.36
	Labour for erecting and removing			5%	43.02
					903.38
	Contractor's profit & overhead			20%	180.68
	Total Composite rate				35.57
					35.55

Item No. 21- 49-1**R.M. Providing water tight joint, with 5" (125mm) wide copper strip of 24 BWG corrugated at centre and 1-1/2" (37.5mm) dia. staggered holes at 4" (100mm) pitch placed horizontally at 2" (50mm) depth from top surface of pavement, 1/2" (13mm) wide joint filler of soft wood at bottom and top filled with plastic bitumen No.4**

Detail of cost for 100 Rft.

Material

Copper sheet 24 BWG = 100 x 5/12

	@ 1.0 lb per sq.ft.	41.67	Lbs. =	18.90	Kg
	Soft wood 1/2" wide	16.67	Sq.ft. =	1.55	Sq.m
	Priming coat of cold bitumen = 100 x 5/12				
	@ 10 lbs. per 100	4.17	Lbs. =	1.89	Kg
	Plastic bitumen No. 4 = 100x1/6x1/24				
	@ 70 lbs. per cu.ft.	48.61	Lbs. =	22.05	Kg

1. Labour

	Mason	6.00	Hrs @	125.00	750.00
	Labourer	6.00	Hrs @	87.50	525.00
					1275.00

Contractor's profit & overhead

				20%	255.00
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Total Labour rate

50.20

50.20

2. Material

	Copper sheet	18.90	Kg. @	550.00	10,394.93
	Holes (punching)	289.00	No. @	10.00	2,890.00
	Soft wood (0.5" wide, 2"	1.55	Sq.m. @	114.00	176.58

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Bitumen cold sticker	1.89	Kg. @	75.00	141.75
	Bitumen plastic	22.05	Kg. @	40.00	881.99
					14,485.26
	Contractor's profit & overhead			20%	2,897.05
	Total Composite rate				620.51
					620.50
	Item No. 21- 50				
R.M.	Same as 21-49-1 but with joint filler of fiber board instead of soft wood.				
	Detail of cost for 100 Rft.				
	1. Labour				
	Total Labour rate	Same as in item 21-49-1			50.20
					50.20
	2. Material				
	Copper sheet	18.90	Kg. @	550.00	10,394.93
	Holes (punching)	289.00	No. @	10.00	2,890.00
	Fibre board 1/2" thick	1.55	Sq.m. @	3675.00	5,692.38
	Bitumen cold sticker	1.89	Kg. @	75.00	141.75
	Bitumen plastic	22.05	Kg. @	40.00	881.99
					20,001.05
	Contractor's profit & overhead			20%	4,000.21
	Total Composite rate				837.68
					837.70
	Item No. 21-51-1				
R.M.	Filling longitudinal construction keyed joints with rubber sealing compound of approved brand.				
	Detail of cost for 100 Rft.				
	Material				
	Rubber sealing compound = 100 x 0.25 x 1/144	0.17	Cu.ft		
	Wastage @ 5%	0.01	Cu.ft		
		0.18	Cu.ft		
	@ 70 lbs. per cu.ft.	12.76	Lbs. =	5.79	Kg
	1. Labour				
	Mason	4.00	Hrs @	125.00	500.00
	Labourer	4.00	Hrs @	87.50	350.00
					850.00
	Contractor's profit & overhead			20%	170.00
	Total Labour rate				33.47
					33.45
	2. Material				
	Rubber sealing	5.79	Kg. @	275.00	1591.72
	Contractor's profit & overhead			20%	318.34
	Total Composite rate				96.14
					96.15
	Item No. 21-52-1				
R.M.	Providing and fixing in position cork sheet of required width and depth in expansion joints including painting two coats with tar coal.				
	Detail of cost for 100 Rft (2.08 Cu.ft)				
	Material				
	Cork sheet = 100 x 0.5	50.00	Sq.ft =	4.65	Sq.m
	1. Labour				
	Total Labour rate	Same as in item 21-51-1			33.47
					33.45
	2. Material				
	Cork sheet 1/2" thick	4.65	Sq.m. @	625.00	2904.28
	Painting with coaltar			2%	58.09
					2962.36
	Contractor's profit & overhead			20%	592.47
	Total Composite rate				150.10
					150.10

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
Item No. 21- 53-1					
Each	Providing and fixing 6" x 6" x 30" (150mm x 150mm x 750mm) precast 1:2:4 cement concrete boundary pillars using graded crushed aggregate embedded in cement concrete 1:4:8 including formwork and its removal, compacting and curing including cost of excavation. (including royalty of Quarry).				
	Detail of cost of one boundary pillar				
	One cement concrete pillar 1: 2: 4				
	0.5 x 0.5 x 2.5	0.63	Cu.ft.	=	0.02 Cu.m.
	1. Labour				
	Engraver	0.50	Hrs	@	125.00 62.50
	Labourer	1.00	Hrs	@	87.50 87.50
	Letter writing @ 25% of				15.63
					165.63
	Contractor's profit & overhead			20%	33.13
	Total Labour rate				198.75 198.75
	2. Material				
	Cement concrete 1:2:4 (Rate as in item 5-15(c))	0.02	Cu.m.	@	11586.35 205.08
	Cement concrete 1:4:8 (Rate as in item 5-4(b))	0.06	Cu.m.	@	5572.45 317.63
	Plaster 1:3	0.30	Sq.m.	@	282.75 84.83
	Painting			5%	10.25
					617.79
	Contractor's profit & overhead			20%	123.56
	Total Composite rate				940.10 940.10
Item No. 21- 54-1					
Each	Providing and fixing 6"x6"x30" (150mmx150mmx750mm) stone boundary pillars embedded in cement concrete 1:4:8 including cost of excavation, cement concrete 1:4:8, backfilling of excavated stuff, cement plaster with 1:3 cement mortar, engraving and writing				
	1. Labour				
	Stone chiseller	1.00	Hrs	@	90.00 90.00
	Engraver	0.50	Hrs	@	125.00 62.50
	Labourer	1.00	Hrs	@	87.50 87.50
	Letter writing			10%	24.00
					264.00
	Contractor's profit & overhead			20%	52.80
	Total Labour rate				316.80 316.80
	2. Material				
	Cost of 6" x 6" x 30" stone	1.00	No.	@	50.00 50.00
	Cement concrete 1:4:8 (Rate as in item 5-4(b))	0.06	Cu.m.	@	5572.45 317.63
	Plaster 1:3	0.30	Sq.m.	@	282.75 84.83
	Painting			25%	12.50
					464.95
	Contractor's profit & overhead			20%	92.99
	Total Composite rate				874.75 874.75

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
Item No. 21- 55-1						
Each	Providing and fixing 9" x 4" x 30" (230mm x 100mm x 750mm) precast 1:2:4 cement concrete kilometer stone using graded screened bajri, embedded in cement concrete 1:4:8, formwork and its removal, compacting and curing including the cost of excavation, cement cost 1:4:8 backfilling of excavated stuff, cement plaster with 1:3 cement engraving and writing letters of approved size, painting two coats as desired.					
1. Labour						
	Engraver	0.50	Hrs @	125.00	62.50	
	Labourer	1.00	Hrs @	87.50	87.50	
	Letter writing			10%	15.00	
					165.00	
	Contractor's profit & overhead			20%	33.00	
	Total Labour rate				198.00	198.00
2. Material						
	Cement concrete 1:2:4 (Rate as in item 5-15(c))	0.02	Cu.m. @	11586.35	205.08	
	Cement concrete 1:4:8 (Rate as in item 5-4(b))	0.06	Cu.m. @	5572.45	317.63	
	Plaster 1:3	0.30	Sq.m. @	282.75	84.83	
	Painting			25%	51.27	
					658.81	
	Contractor's profit & overhead			20%	131.76	
	Total Composite rate				988.57	988.55
Item No. 21- 56-1						
Each	Providing and fixing 9" x 4" x 30" (230mm x 100mm x 750mm) kilometer stone of local quarry of hard texture with top one foot chisel-dressed on all sides as per approved design embedded in cement concrete 1:4:8 including cost of excavation, cement concrete 1:4:8 backfilling of excavated stuff engraving and writing letters of approved size, painting 2 coats as desired.					
1. Labour						
	Stone chiseller	1.00	Hrs @	90.00	90.00	
	Engraver	0.50	Hrs @	125.00	62.50	
	Labourer	1.00	Hrs @	87.50	87.50	
	Letter writing			10%	24.00	
					264.00	
	Contractor's profit & overhead			20%	52.80	
	Total Labour rate				316.80	316.80
2. Material						
	Cost of 9" x 4" x 30" stone	1.00	No. @	50.00	50.00	
	Cement concrete 1:4:8 (Rate as in item 5-4(b))	0.06	Cu.m. @	5572.45	317.63	
	Painting			25%	12.50	
					380.13	
	Contractor's profit & overhead			20%	76.03	
	Total Composite rate				772.96	772.95

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
Each	Item No. 21- 57-1					
	Providing and fixing 42" x 18" x 12" (1050mmx 450mmx 300mm) 1:2:4 cement concrete precast kilometer stone of approved design with triangular face using graded screened bajri embedded in cement concrete 1:4:8, formwork and its removal, compacting curing including cost of excavation, embedding in cement concrete 1:4:8, backfilling of excavated stuff cement plaster with 1:3 cement mortar, engraving and writing letters of approved size and painting 2 coats as desired.					
	1. Labour					
	Engraver	3.00	Hrs	@	125.00	375.00
	Labourer	4.00	Hrs	@	87.50	350.00
	Letter writing				10%	72.50
						797.50
	Contractor's profit & overhead				20%	159.50
	Total Labour rate					957.00
						957.00
	2. Material					
	Cement concrete 1:2:4 (Rate as in item 5-15(c))	0.08	Cu.m.	@	11586.35	926.91
	Cement concrete 1:4:8 (Rate as in item 5-4(b))	0.20	Cu.m.	@	5572.45	1114.49
	Plaster 1:3	0.60	Sq.m.	@	282.75	169.65
	Painting				10%	92.69
					2,303.74	
Contractor's profit & overhead				20%	460.75	
Total Composite rate					3,721.49	
					3721.50	
R.M.	Item No. 21- 58-1					
	Providing and laying kerb stone 18" x 12" x 6" (450mm x 300mm x150mm) obtained from approved quarry, chisel dressed on top and sides, laid in cement mortar 1:4 ruled cement pointing in cement mortar 1:3 including cost of excavation and backfilling of excavated stuff and its disposal within 30 m.					
	Detail of cost for 100 Rft.					
	Taking vertical joints of					
	No. of stones =	100 / 1.56	64.00	Nos.		
	Contents =	64 x 1.5 x 1 x 0.5	48.00	Cu.ft.		
	Wastage @ 100%		48.00	Cu.ft.		
			96.00	Cu.ft.		
	1. Labour					
	Stone chiseller	20.00	Hrs	@	90.00	1800.00
	Engraver	20.00	Hrs	@	125.00	2,500.00
	Mason	16.00	Hrs	@	125.00	2000.00
	Labourer	16.00	Hrs	@	87.50	1400.00
	Bahishti	1.00	Hrs	@	87.50	87.50
						7,787.50
Contractor's profit & overhead				20%	1557.50	
Total Labour rate					306.61	
					306.60	
2. Material						
Stone	2.72	Cu.m.	@	706.20	1920.86	
Mortar 1:3	0.06	Cu.m.	@	2538.00	152.28	
Mortar 1:4	0.22	Cu.m.	@	4839.30	1064.65	
					3,137.79	
Contractor's profit & overhead				20%	627.56	
Total Composite rate					430.15	
					430.15	

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
R.M.	Item No. 21- 59-1 Providing and laying road kerb of 1st class burnt brick masonry laid in cement mortar 1:4, 9" (230mm) wide and 12" (300mm) deep with round moulded corners of bricks including cost of excavation and backfilling of excavated stuff and its disposal within 30m.				
	Detail of cost for 100 Rft. Cost for making kerb stone				
	Labour				
	Mason	7.75	Hrs @	125.00	968.75
	Labourer	9.75	Hrs @	87.50	853.13
	Bahishti	1.50	Hrs @	87.50	131.25
	Mistri	0.35	Hrs @	110.00	38.50
	Total per Cu.m.				1991.63
	Material				
	Bricks	486.00	No. @	10.00	4,860.00
	Mortar	0.22	Cu.m. @	4839.30	1064.65
	Water charges			1.5%	88.87
	Total per Cu.m.				6,013.52
	1. Labour				
	For road kerb				
	Brick masonry	2.12	Cu.m. @	1991.63	4,222.25
	Extra labour for rounding corners of bricks,excavation & backfilling				
	Labourer	8.00	Hrs @	87.50	700.00
	Total				4,922.25
	Contractor's profit & overhead			20%	984.45
	Total Labour rate				193.80
	2. Materials				
	Brick masonry	2.12	Cu.m. @	6013.52	12,749
	Contractor's profit & overhead			20%	2,550
	Total Composite rate				695.74
					193.80
					695.75
R.M.	Item No. 21-60 Providing and laying road kerb of precast cement concrete 24"x6"x12" (600mm x150mm x300mm) using crushed aggregate, formwork and its removal, compacting and curing laid in cement mortar 1:4 & cement plaster 1:4 neatly finished including cost of excavation, backfilling of excavated stuff & its disposal within 30m				
	Detail of cost for 100 R.ft.				
	a) Road kerb of precast cement concrete 1:2:4				
	No. of kerbs	100 / 2 =	50.00	Nos.	
	Less for joints	2 =	48.00	Nos.	
	Materials				
	Concrete 1:2:4	48 x 2 x0.5 x 1	48.00	Cu.ft =	1.36 Cu.m
	Plaster 1: 4	2 x100 x 0.75	150.00	Sq.ft. =	13.94 Sq.m
	Mortar 1:4	48 x 1 x0.5 x 0.04	0.96	Cu.ft =	0.03 Cu.m
	1. Labour				
	For laying including excavation and backfilling				
	Mason	4.00	Hrs @	125.00	500.00
	Labourer	4.00	Hrs @	87.50	350.00
	Bahishti	1.00	Hrs @	87.50	87.50
					937.50
	Contractor's profit & overhead			20%	187.50
	Total Labour rate				36.91
	2. Material				
	Cement concrete 1:2:4	Rate as in item 5-15(c)	1.36	Cu.m. @	11586.35
	Plaster 1:4	Rate as in item 15-1(a)3	13.94	Sq.m. @	260.20
	Mortar 1:4		0.03	Cu.m.	4839.30
					131.57
					19,509
	Contractor's profit & overhead			20%	3,902
					36.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Composite rate	805.03	805.05

R.M. b) Road kerb of precast cement concrete 1:3:6

1. Labour

For laying including excavation and backfilling

Total Labour rate	Same as in item 21-60(a)	36.91	36.90
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2. Material

Cement concrete 1:3:6 (Rate as in item 5-15(d)) 1.36 Cu.m. @ 10875.70 14,784

Plaster 1:4 13.94 Sq.m. @ 260.20 3,627

Mortar 1:4 0.03 Cu.m. 4839.30 131.57

18,543

Contractor's profit & overhead 20% 3,709

Total Composite rate		766.99	767.00
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Item No. 21-61

Providing and laying road kerb 4" wide and 12" deep (100mm x 300mm) cast in situ, of cement concrete using crushed aggregate, formwork and its removal, compacting and curing, filling joints with bitumen, cement plaster 1:4 neatly finished including cost of excavation, backfilling of excavated stuff and its disposal with 30m. lead.

Detail of cost for 100 Rft.**R.M. a) Road kerb of precast cement concrete 1:2:4**

Materials

Concrete 1:2:4 100 x 4/12 x 1 33.33 Cu.ft = 0.94 Cu.m

Plaster 1: 4 2 x 100 x 0.75 150.00 Sq.ft. = 13.94 Sq.m

1. Labour

For laying including excavation and backfilling

Mason 4.00 Hrs @ 125.00 500.00

Labourer 8.00 Hrs @ 87.50 700.00

Bahishti 1.00 Hrs @ 87.50 87.50

1287.50

Contractor's profit & overhead 20% 257.50

Total Labour rate		50.69	50.70
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2. Material

Cement concrete 1:2:4 (Rate as in item 5-15(c)) 0.60 Cu.m. @ 11586.35 6,951.81

Plaster 1:4 5.00 Sq.m. @ 260.20 1,301.00

Bitumen 3.5% 288.85

8,541.66

Contractor's profit & overhead 20% 1,708.33

Total Composite rate		386.99	387.00
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b) Road kerb of precast cement concrete 1:3:6

1. Labour

For laying including excavation and backfilling

Total Labour rate	Same as in item 21-61(a)	50.69	50.70
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2. Material

Cement concrete 1:3:6 Rate as in item 5-15(d) 0.60 Cu.m. @ 10875.70 6,525.42

Plaster 1:4 4.00 Sq.m. @ 260.20 1,040.80

Bitumen 3.5% 264.82

7,831.04

Contractor's profit & overhead 20% 1,566.21

Total Composite rate		359.02	359.00
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Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
Item No. 21- 62					
Removing the existing worn out bituminous surface, having pot holes and ruts in patches of regular shape brushing and recarpeting with asphalt macadam as per specifications including disposal of excavated stuff within one chain (30m.) lead.					
Sq.m.	a) 1" (25 mm) thick reconsolidated recarpeting.				
	1. Labour				
	For asphalt macadam (As per item 21-29)				109.91
	Labour for removing the existing worn out surface.				
	Labourer	8.00	Hrs @	87.50	700.00
	Contractor's profit & overhead			20%	161.98
	Total Labour rate				971.90
					971.90
	Total composite rate (As per item 21-29)				1481.36
					1481.35
Sq.m.	b) 2" (50mm) thick rconsolidated recarpeting.				
	1. Labour				
	For asphalt macadam (As per item 21-27)				201.88
	Labour for removing the				
	Labourer	8.00	Hrs @	87.50	700.00
	Contractor's profit & overhead			20%	180.38
	Total Labour rate				1082.26
					1082.25
	Total composite rate (As per item 21-27)				1591.71
					1591.70
Sq.m.	c) 2-1/2" (63mm) thick consolidated recarpeting.				
	Total Labour rate Same as in item 21-62(b)				1082.26
					1082.25
	Total composite rate (As per item 21-28)				2133.89
					2133.90
Item No. 21- 63-1					
Sq.m.	Dismantling bitumen carpet of any description from existing road surface including its removal and disposal within 90m lead. (0-15 cm thickness)				
	Labour for dismantling				
	Labourer	0.50	Hrs @	87.50	43.75
	Contractor's profit & overhead			20%	8.75
	Total Labour rate				52.50
					52.50
Item No. 21- 64-1					
Sq.m.	Dismantling of stone metalling from existing road from where bitumen carpet has already been removed including disposal within 90m lead.(0-30 cm thickness)				
	Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Contractor's profit & overhead			20%	13.13
	Total Labour rate				78.75
					78.75
Item No. 21-65-1					
Sq.m.	Dismantling brick metalling from existing road from where bitumen carpet has already been removed including disposal within 90m lead. (0-60 cm)				
	Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Contractor's profit & overhead			20%	17.50
	Total Labour rate				105.00
					105.00

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	
Sq.m.	Item No. 21- 66-1				
	Dismantling brick soling from existing road from where bitumen carpet & stone metalling has already been removed including disposal of excavated stuff within 90m lead.(0-30 cm thickness)				
	Labour				
	Labourer	0.55	Hrs @ 87.50	48.13	
	Contractor's profit & overhead		20%	9.63	
	Total Labour rate			57.75	
				57.75	
Sq.m.	Item No. 21- 67-1				
	Dismantling soling stone from existing road from where bitumen carpet and stone metalling have already been removed including disposal of surplus material within 90m lead. (0-30 cm thickness)				
	Labour				
	Labourer	0.50	Hrs @ 87.50	43.75	
	Contractor's profit & overhead		20%	8.75	
	Total Labour rate			52.50	
				52.50	
Sq.m.	Item No. 21- 68-1				
	Cutting the worn out surface in all kinds of cement concrete roads having pot holes and ruts upto any depth and any shape including disposal of excavated stuff within 90 m. lead. (0-30 cm thickness)				
	Detail of labour for 10 sq.m.				
	Labour				
	Chiseller	6.00	Hrs @ 90.00	540.00	
	Labourer	6.00	Hrs @ 87.50	525.00	
	Total			1065.00	
	Contractor's profit & overhead		20%	105.00	
		Total Labour rate			117.00
					117.00
Sq.m.	Item No. 21- 69-1				
	a) Scarifying sub-base, base or wearing coat surface of flexible pavement with pick axes or/by any other approved means upto required depth including disposal of rubbish within 90 m.				
	Detail of labour for 10 sq.m.				
	Labour				
	Labourer	5.00	Hrs @ 87.50	437.50	
	Contractor's profit & overhead		20%	87.50	
		Total Labour rate			52.50
					52.50
		b) Making grooves in existing bitumen carpet/TST of any description including removal and disposal within 90 m. lead			
	Detail of labour for 10				
Labour					
Labourer	5.50	Hrs @ 87.50	481.25		
Contractor's profit & overhead		20%	96.25		
	Total Labour rate			57.75	
				57.75	
Cu.m.	Item No. 21- 70-1				
	Screening existing stone or brick metal or crushed aggregate in different screens of any size and mesh along side of alignment including stacking in different grades and disposal of surplus stuff within 90 m. lead.				
	Labour				
	Labourer	3.00	Hrs @ 87.50	262.50	
	Contractor's profit & overhead		20%	52.50	
	Total Labour rate			315.00	
				315.00	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Item No. 21- 71-1		
Cu.m.	Filling joints or cracks with bitumen upto any depth and width including brushing, washing with kerosene oil and blending with sand.		
	Considering 1/2" wide and 1" deep joint		
	1. Labour		
	Labour for bitumen filler (As in item 21- 45-1)	3001.35	
	Extra labour		
	Labourer	2.00 Hrs @ 87.50	175.00
			3176.35
	Contractor's profit & overhead	20%	635.27
	Total Labour rate		3811.62
			3811.60
	2. Material		
	Bitumen, cement & sand (same as in item 21-45-1)		131,816.43
	Contractor's profit & overhead	20%	26,363.29
	Total Composite rate		161,991.34
			161991.35
	Item No. 21- 72		
	Cutting trenches through bituminous road for laying pipe etc. in any width and upto required depth including dismantling kerb stones, edge stones or channels, replacing soling stones (old and 10% new) with hand refilling with (old and 25% new) ballast blinded with murum, watering and ramming complete, refixing edge stone, kerb stones in cement mortar 1:3 including recarpeting with (consolidated) asphalt macadam as per specification (cost of new stone, ballast and new murum is inclusive).(including royalty of Quarry).		
	Detail of cost for 10 Sq.m.		
Sq.m.	a) 1"(25mm) thick consolidated asphalt macadam recarpeting		
	Cutting road & relaying soling & metal		
	Stone ballast 25% new = 107.6x1/3x25%	8.97 Cu.ft. =	0.25 Cu.m.
	Soling stone 10% new = 107.6x1/2x10%	5.38 Cu.ft. =	0.15 Cu.m.
	Murum 10% new = 107.6x1/2x10%	5.38 Cu.ft. =	0.15 Cu.m.
	1. Labour		
	Labourer	64.00 Hrs @ 87.50	5,600.00
	Bahishti	5.00 Hrs @ 87.50	437.50
			6,037.50
	Contractor's profit & overhead	20%	1207.50
	Total Labour rate		724.50
			724.50
	2. Material		
	Stone ballast crushed	0.25 Cu.m. @ 706.20	179.33
	Stone soling	0.15 Cu.m. @ 1236.00	188.32
	Murum	0.15 Cu.m. @ 1059.30	161.40
	Total		529.06
	3. Providing and laying 1" (25 mm) thick consolidated asphalt macadam as per item 21- 19		
	Same as in item 21 - 29	10.00 Sq.m. @ 424.55	4,245.50
	Total 2 & 3		4,774.55
	Contractor's profit & overhead	20%	954.91
	Total Composite rate		1297.45
			1297.45
Sq.m.	b) 2" (50 mm) thick consolidated asphalt macadam recarpeting		
	1. Labour For cutting road & relaying soling & metal		
	Total Labour rate (Same as in item 21-72(a))		724.50
			724.50
	2. Material		
	Stone & murum (Same as in item 21-72(a))		529.06
	3. Providing and laying 2" (50 mm) thick consolidated asphalt macadam as per item 21- 30		
	Same as in item 21 - 27	10.00 Sq.m. @ 725.85	7,259
	Total 2 & 3		7,788
	Contractor's profit & overhead	20%	1,558
	Total Composite rate		1659.01
			1659.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Sq.m.	c) 2-1/2" (63 mm) thick consolidated asphalt macadam recarpeting		
	1. Labour For cutting road & relaying soling & metal		
	Total Labour rate (Same as in item 21-72(a))	724.50	724.50
	2. Material		
	Stone & murum (Same as in item 21-72(a))	529.06	
	3. Providing and laying 2" (50 mm) thick consolidated asphalt macadam as per item 21-30		
	Same as in item 21 - 28 10.00 Sq.m. @ 876.36	8,764	
	Total 2 & 3	9,293	
	Contractor's profit & overhead 20%	1,859	
	Total Composite rate	1,839.62	1839.60

Item No. 21-73

Cutting trenches through cement concrete road with chisel etc. in any width upto required depth including dismantling kerb stones, edge stones, refilling with cement concrete 1:2:4 using crushed graded boulders of required size and grade including compacting with vibrators refixing edge stones, kerb stones in cement mortar 1:3

Sq.m.	a) 4" (100 mm) thick 1:2:4 concrete relaying		
	Detail of cost for 10 Sq.m.		
	Labour for cutting road with chisel including edge stone or kerb stones.		
	1. Labour		
	Chiseller concrete 32.00 Hrs @ 90.00	2,880	
	Hammer man 32.00 Hrs @ 87.50	2,800	
	Mason 4.00 Hrs @ 125.00	500	
	Labourer 32.00 Hrs @ 87.50	2,800	
	Total	8,980	
	Contractor's profit & overhead 20%	1796.00	
	Total for 1 Sq. m.	1077.60	
	Labour for concreting as per item 21-34(a)	150.40	
	Total Labour rate	1228.00	1228.00
	Providing and laying 1:2:4 cement concrete		
	Same as in item 21 -34(a)	800.29	
	Total Composite rate	2028.29	2028.30

Sq.m.	b) Extra for every 1/2" (13mm) thickness over 4" (100mm) thick cement concrete 1:2:4.		
	Detail of cost for 10 Sq.m.		
	1. Labour		
	Chiseller concrete 4.00 Hrs @ 90.00	360.00	
	Hammer man 4.00 Hrs @ 87.50	350.00	
	Mason 1.00 Hrs @ 125.00	125.00	
	Labourer 4.00 Hrs @ 87.50	350.00	
	Total	1185.00	
	Contractor's profit & overhead 20%	237.00	
	Total for 1 Sq. m.	142.20	
	Labour for concreting as per item 21-34(b)	19.55	
	Total Labour rate	161.75	161.75
	Providing and laying 1:2:4 cement concrete		
	Same as in item 21 -34(b)	104.05	
	Total Composite rate	265.80	265.80

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 21- 74				
Excavation in all kind of soils in trenches and channels including dressing to required section and back-filling of excavated stuff including watering, ramming in layers including disposal of surplus earth.				
Cu.m.	a) Lift upto 5 ft. (1.5 m.) and lead upto 100 ft. (30 m.)			
	Labour			
	Labourer	4.00	Hrs @ 87.50	350.00
	Bahishti	1.00	Hrs @ 87.50	87.50
				<u>437.50</u>
	Contractor's profit & overhead		20%	87.50
	Total Labour rate			<u>525.00</u> 525.00
Cu.m.	b) Extra for additional lift above 5 ft. to 10 ft. (1.5 m to 3 m.) and lead upto 100 ft. (30 m.)			
	Labour			
	Labourer	4.00	Hrs @ 87.50	350.00
	Contractor's profit & overhead		20%	70.00
	Total Labour rate			<u>70.00</u> 70.00
Item No. 21-75				
Providing and laying open jointed pipe with collar of class "C" or equivalent and fixing in trenches over prepared bed including cutting, wastage, with all lead and lift.				
	Material			
	Pipe required	30.00	R.M.	
	Wastage @ 5%	1.50	R.M.	
		31.50	R.M.	
R.M.	a) 4" (100 mm) dia R.C.C pipe			
	1. Labour			
	Mason	14.00	Hrs @ 125.00	1750
	Labourer	28.00	Hrs @ 87.50	2450
				<u>4,200</u>
	Contractor's profit & overhead		20%	840.00
	Total Labour rate			<u>168.00</u> 168.00
	2. Material			
	R.C.C. pipe 4" dia.	31.50	R.M. @ 191.42	6,030
	Contractor's profit & overhead		20%	1,206
	Total Composite rate			<u>409.19</u> 409.20
R.M.	b) 6" (150mm) dia R.C.C pipe			
	1. Labour			
	Total Labour rate		Same as in item 21- 75(a)	168.00 168.00
	2. Material			
	R.C.C. pipe 6" dia.	31.50	R.M. @ 233.00	7,340
	Contractor's profit & overhead		20%	1,468
	Total Composite rate			<u>461.58</u> 461.60
R.M.	c) 4" (100mm) dia A.C pipe			
	1. Labour			
	Total Labour rate		Same as in item 21- 75(a)	168.00 168.00
	2. Material			
	Non Asbestos Cement	31.50	R.M. @ 395.00	12,443
	Contractor's profit & overhead		20%	2,489
	Total Composite rate			<u>665.70</u> 665.70
R.M.	d) 6" (150mm) dia A.C pipe			
	1. Labour			
	Total Labour rate		Same as in item 21- 75(a)	168.00 168.00
	2. Material			
	Non Asbestos Cement Fibre pipe 6" dia. Class C	31.50	R.M. @ 501.84	15,808
	Contractor's profit & overhead		20%	3,162
	Total Composite rate			<u>800.32</u> 800.30

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 21- 76

Providing and fixing R.C.C. pipe of class "C" or equivalent in trenches including cutting, wastage, fitting and jointing, with maxphalt composition and cement mortar 1 : 1 and testing with water including all lead and lift.

R.M. a) 9" (225 mm) dia R.C.C pipe

Detail of cost for 30 R.M.

1. Labour

Total Labour rate	Same as in item 21- 75(a)	168.00	168.00
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2. Material

R.C.C. pipe 9" dia	31.50	R.M.	@	302.30	9,522
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Joint - spun yarn + maxphalt composition	16.00	Joint	@	10.00	160
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Cement sand mortar 1 : 2	0.34	Cu.m.	@	8442.75	2,871
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					12,553
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Contractor's profit & overhead				20%	2,511
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Total Composite rate					670.12	670.10
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R.M. b) 12" (300 mm) dia R.C.C pipe

Detail of cost for 30 R.M.

1. Labour

Total Labour rate	Same as in item 21- 75(a)	168.00	168.00
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2. Material

R.C.C. pipe 12" dia	31.50	R.M.	@	640.00	20,160
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Joint - spun yarn + maxphalt composition	16.00	Joint	@	10.00	160
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Cement sand mortar 1 : 2	0.34	Cu.m.	@	8442.75	2,871
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					23,191
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Contractor's profit & overhead				20%	4,638
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Total Composite rate					1095.62	1095.60
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Item No. 21- 77-1

Cu.m. Filling in trenches locally available aggregate of any size or grade available at site with or without blinding with coarse sand or fine aggregate including watering, dressing, consolidation by ramming in layers not exceeding 9" (225mm) in depth to full compaction including all lead and lift. (excluding royalty of Quarry).

Labour

Labourer	1.50	Hrs	@	87.50	131.25
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Bahishti	0.50	Hrs	@	87.50	43.75
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					175.00
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Contractor's profit & overhead				20%	35.00
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Total Labour rate					210.00	210.00
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Item No. 21- 78-1

Cu.m. Providing and laying dry stone uncoarsed rubble pitching upto 12" (300mm) thick in bottom and sides of channel or drain. (including royalty of Quarry).

Material

Uncoarsed rubble stone	1.00	Cu.m.			
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Wastage @ 10%	0.10	Cu.m.			
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	1.10	Cu.m.			
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1. Labour

Mason	4.00	Hrs	@	125.00	500.00
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Labourer	4.00	Hrs	@	87.50	350.00
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					850.00
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Contractor's profit & overhead				20%	170.00
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Total Labour rate					1020.00	1020.00
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2. Material

Stone	1.10	Cu.m.	@	706.20	776.82
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Contractor's profit & overhead				20%	155.36
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Total Composite rate					1952.18	1952.20
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Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Item No. 21- 79-1				
Sq.m.	Cement pointing to stone pitching in 1 : 2 cement mortar in channels or drains including curing and raking out joints.				
	Detail of cost for 10 Sq.m.				
	Mortar for pointing is assumed as 1/30 of the cubical contents of pitching.				
	Mortar 1 : 2	1/30 x 0.75 x 35.31	0.88	Cu.ft. =	0.03 Cu.m.
	1. Labour				
	Mason		2.00	Hrs @	125.00 250.00
	Labourer		2.00	Hrs @	87.50 175.00
	Bahishti		1.00	Hrs @	87.50 87.50
					<u>512.50</u>
	Contractor's profit & overhead			20%	102.50
	Total Labour rate				<u>615.00</u> 615.00
	2. Material				
	Cement sand mortar 1 : 2		0.03	Cu.m. @	8442.75 211.07
	Contractor's profit & overhead			20%	42.21
	Total Composite rate				<u>868.28</u> 868.30
	Item No. 21- 80				
	Providing and fixing G.I. pipe railing 2.5 ft high of required diameter, comprising vertical posts and horizontal bracings of G.I. pipe of the same dia including cost of specials, bends, threading cutting and making good the floor or wall and or slab of any kind in cement concrete 1:2:4 (Actual pipe length used for vertical posts and horizontal bracings to be measured, length of specials used not to be deducted)				
R.M.	a) 2" (50 mm) dia G.I. pipe railing				
	Considering a railing 10' long and 2' - 6" high.				
	G.I pipe vertical posts (4" embedded in concrete)				
	= 4 x 2.83		11.32	Ft.	
	Horizontal braces	= 3 x 4 x 2.29	27.48	Ft.	
	Arm	= 2 x 2 x 1.25	5.00	Ft.	
	Total pipe length used	=	43.80	Ft. =	13.35 R.M.
	Wastage @ 5%		2.19	Ft. =	
			45.99	Ft. =	14.02 R.M.
	1. Labour				
	Pipe fitter		12.00	Hrs @	125.00 1500.00
	Mason		2.00	Hrs @	125.00 250.00
	Labourer		12.00	Hrs @	87.50 1050.00
					<u>2800.00</u>
	Contractor's profit & overhead			20%	560.00
	Total Labour rate				<u>251.69</u> 251.70
	2. Material				
	G.I. pipe 50 mm dia.		14.02	R.M. @	1046.25 14,665.36
	G.I. cross 2" x 2"		6.00	No. @	305.00 1,830.00
	G.I. tee 2" x 2"		6.00	No. @	180.00 1,080.00
	Cement sand mortar 1 : 4		0.02	Cu.m. @	4839.30 96.79
	White lead and hessian			1.5%	265.08
					<u>17,937.23</u>
	3. Plant & Equipment				
	Cutting machine for G.I. pipes		1.00	Hrs @	45.00 45.00
	Sundries			1.5%	269.73
	Total				<u>17,982.23</u>
	Contractor's profit & overhead			20%	3,596.45
	Total Composite rate				<u>1868.12</u> 1868.10

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
R.M.	b) 1-1/2" (40 mm) dia G.I. pipe railing			
	1. Labour			
	Total Labour rate	Same as in item 21- 80(a)	251.69	251.70
	2. Material			
	G.I. pipe 40 mm dia.	14.02 R.M.	@ 757.50	10,617.93
	G.I. cross 2" x 2"	6.00 No.	@ 305.00	1,830.00
	G.I. tee 2" x 2"	6.00 No.	@ 180.00	1080.00
	Cement sand mortar 1 : 4	0.02 Cu.m.	@ 4839.30	96.79
	White lead and hessian		1.5%	204.37
				<u>13,829.09</u>
	3. Plant & Equipment			
	Cutting machine for G.I. pipes	1.00 Hrs	@ 45.00	45.00
	Sundries		1.5%	208.11
	Total			<u>14,082.20</u>
	Contractor's profit & overhead		20%	2,816.44
	Total Composite rate			<u>1517.55</u> 1517.55
R.M.	c) 1" (25 mm) dia G.I. pipe railing			
	1. Labour			
	Total Labour rate	Same as in item 21- 80(a)	251.69	251.70
	2. Material			
	G.I. pipe 25 mm dia.	14.02 R.M.	@ 471.25	6,605.54
	G.I. cross 2" x 2"	6.00 No.	@ 305.00	1,830.00
	G.I. tee 2" x 2"	6.00 No.	@ 180.00	1080.00
	Cement sand mortar 1 : 4	0.02 Cu.m.	@ 4839.30	96.79
	White lead and hessian		1.5%	144.18
				<u>9,756.51</u>
	3. Plant & Equipment			
	Cutting machine for G.I. pipes	1.00 Hrs	@ 45.00	45.00
	Sundries		1.5%	147.02
	Total			<u>9,948.54</u>
	Contractor's profit & overhead		20%	1,989.71
	Total Composite rate			<u>1145.97</u> 1145.95
	Item No. 21- 81-1			
Each set of one end	Providing and fixing steel bearings of standard quality and type weighing not less than 90kg			
	1. Labour			
	Fixing charges	5% of material cost	5%	697.50
	Contractor's profit & overhead		20%	139.50
	Total Labour rate			<u>837.00</u> 837.00
	2. Material			
	Bearing - steel	90.00 Kg.	@ 155.00	13,950
	Contractor's profit & overhead		20%	2,790
	Total Composite rate			<u>17,577.00</u> 17577.00
	Item No. 21- 82-1			
Sq.m.	Providing and fixing rubber bearing pad not less than 1" (25 mm) thick.			
	1. Labour			
	Fixing charges	5% of material cost	5%	450.00
	Contractor's profit & overhead		20%	90.00
	Total Labour rate			<u>90.00</u> 90.00
	2. Material			
	Bearing pad rubber	1.00 No.	@ 9000.00	9,000
	Contractor's profit & overhead		20%	1,800
	Total Composite rate			<u>10,890.00</u> 10890.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Cu.m.	Item No. 21- 83-1		
	Providing and laying dry brick pavement and/or soling in streets or roads over 1/2" (13mm) thick sand cushion including sand grouting, watering, compacting of bed to proper camber.		
	Bricks 9 x 4.38 x 2.69	106.04 Cu.in. = 0.0017 Cu.m.	
	No. of Bricks in cu.m. = 1/0.00174	575.40	
	Area of sand 0.15	5.29 Cu.ft.	
	Sand for grouting	2.00 Cu.ft.	
		7.29 Cu.ft. = 0.21 Cu.m.	
	1. Labour		
	Mason	3.00 Hrs @ 125.00	375.00
	Labourer	9.00 Hrs @ 87.50	787.50
	Bahishti	2.00 Hrs @ 87.50	175.00
			1337.50
	Contractor's profit & overhead	20%	267.50
	Total Labour rate		1605.00
			1605.00
	2. Material		
	Bricks	250.00 No. @ 10.00	2500.00
	Sand local	0.21 Cu.m. @ 882.75	182.32
	Water charges	1.5%	40.23
			2,722.55
	Contractor's profit & overhead	20%	544.51
	Total Composite rate		4,872.07
			4872.07

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Each	Item No. 21- 84-1		
	Providing and fixing road sign boards such as caution etc as approved by the Engineer with reflective paints, having superficial area of 1.125 sq.m including cost of post etc.		
	1. Labour		
	Painter	8.00 Hrs @ 125.00	1000.00
	Labourer	8.00 Hrs @ 87.50	700.00
			1700.00
	Contractor's profit & overhead	20%	340.00
	Total Labour rate		2040.00
			2040.00
	M.S. sheet (10% wastage included)	1.24 Kg. @ 75.00	93.00
	M.S. pipe 10 SWG (10% wastage included)	7.15 R.ft. @ 65.00	464.75
	Reflective paint	33%	184.06
			741.81

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Contractor's profit & overhead	20%	148.36
	Total Composite rate		2,930.17
			2930.17

Item No. 21-85

Cu.m a) Supply of asphalt concrete premixed bituminous carpet using bitumen 80/100 or of any approved grade with following percentage including compaction and finishing to required camber, grade and density. Coarse aggregate from approved source by Asphalt Batching Plant

i) 3% Bitumen content

Detail of cost for 100 tons

As per job mix formula marshal stability 1200 lbs per sq.in. and density 145 lbs/ cu.ft. 1.5" thick layer for 124 sq.ft of surface area = $124 \times 3/2 \times 1/12 = 15.5$ cu.ft.

According to the above density 15.5 cu.ft will weigh $145 \times 15.5 = 2247$ lbs say one ton. As per job mix formula take the weight of dry mix = 2144 lbs with break up:

Crushed stone	50% of 2144	1072.00	Lbs.	=	486.26	Kgs.
Sand	49% of 2144	1050.56	Lbs.	=	476.53	Kgs.
Cement	1% of 2144	21.44	Lbs.	=	9.73	Kgs.
Bitumen 80/100	3% of 2144	64.32	Lbs.	=	29.18	Kgs.
Total		<u>2208.32</u>	Lbs.	=	1001.69	Kgs.

Hence material for 100 tons to cover 12400 sq.ft (1152.5 sq.m.) pavement crushed stone size 3/4" to down gauge

Crushed aggregate	486x100x1/1600	30.39	Cu.m.
Sand	476.5x100x1/1600	29.78	Cu.m.
Cement	9.73x100	972.51	Kg.
Bitumen 60/70	29.18 x 100	2917.54	Kg.
		<u>2917.54</u>	Kg.

1. Material

Bitumen 60/70	2917.54	Kg.	@	78.00	227,568
Approved Crushed Aggregate 3/4" -3/8"	30.39	Cu.m.	@	1296.75	39,410
Approved Coarse Sand	29.78	Cu.m.	@	1059.30	31,549
Cement OPC	972.51	Kg.	@	10.50	10,211
Wire brush	3.00	No.	@	50.00	150
Fuel wood	15.00	No.	@	15.00	225
					<u>309,113</u>

2. Tools and plant

Asphalt mixing plant including other equipment	2.00	Hrs	@	25411.00	50,822
Total of 1 & 2					309,113
Contractor's profit & overhead				20%	61,823
Total					<u>370,936</u> A

Total Composite rate = A /100 + Lab. rate

12668.14

12668.15

ii) 3.5% Bitumen content

Total Composite rate

13301.55

iii) 4% Bitumen content

Total Composite rate

13966.65

iv) 4.5% Bitumen content

Total Composite rate

14665.00

v) 5% Bitumen content

Total Composite rate

15398.25

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	vi) 5.5% Bitumen content		
	Total Composite rate		16168.15
	vii) 6% Bitumen content		
	Total Composite rate		16976.55
Cu.m	b) laying of consolidated thickness of asphalt concrete premixed bituminous carpet using bitumen 80/100 or of any approved grade with following percentage including compaction and finishing to required camber, grade and density. Coarse aggregate from approved source. (Mechanical mean using Paver)		
	i) 3% Bitumen content		
	Detail of cost for 100 tons		
	1. Labour		
	Labourer	24.00 Hrs @ 87.50	2,100
	Chowkidar	8.00 Hrs @ 87.50	700
	Contractor's profit & overhead	20%	560
	Total Labour rate		114.83
	114.83		114.85
	2. Tools and plant		
	Pneumatic tyre roller	4.00 Hrs @ 2135.00	8,540
	Road roller 10-12 ton capacity	4.00 Hrs @ 1154.00	4,616
	Paver 4 M wide	1.54 Hrs @ 4500.00	6,938
	Dumper Truck	14.93 Hrs @ 2150.00	32,107
			52,201
	3. Mobilization, demobilization & idle time @ 1%		522
	Total of 1, 2 & 3		52,723
	Contractor's profit & overhead	20%	10,545
	Total		63,267 ^A
	Total Composite rate = A / 100 + Lab. rate		2275.52
			2275.50
	ii) 3.5% Bitumen content		
	Total Labour rate Same as in Item 21.85a		2275.50
	iii) 4% Bitumen content		
	Total Labour rate Same as in Item 21.85a		2275.50
	iv) 4.5% Bitumen content		
	Total Labour rate Same as in Item 21.85a		2275.50
	v) 5% Bitumen content		
	Total Labour rate Same as in Item 21.85a		2275.50
	vi) 5.5% Bitumen content		
	Total Labour rate Same as in Item 21.85a		2275.50
	vii) 6% Bitumen content		
	Total Labour rate Same as in Item 21.85a		2275.50
Cu.m	c) laying of consolidated thickness of asphalt concrete premixed bituminous carpet using		

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	bitumen 80/100 or of any approved grade with following percentage including compaction and finishing to required camber, grade and density. Coarse aggregate from approved source. (Without Paver)				
	i) 3% Bitumen content				
	Detail of cost for 100 tons				
	1. Labour				
	Labourer	24.00	Hrs @	87.50	2,100
	Chowkidar	8.00	Hrs @	87.50	700
	Contractor's profit & overhead			20%	560
	Total Labour rate				114.83
	2. Tools and plant				
	Pneumatic tyre roller	4.00	Hrs @	2135.00	8,540
	Road roller 10-12 ton capacity	4.00	Hrs @	1154.00	4,616
	Dumper Truck	14.93	Hrs @	2150.00	32,107
					45,263
	3. Mobilization, demobilization & idle time @ 1%				453
	Total of 1, 2 & 3				45,715
	Contractor's profit & overhead			20%	9,143
	Total				54,858 ^A
	Total Composite rate = A / 100 + Lab. rate				1988.35
					1988.35
	ii) 3.5% Bitumen content				
	Total Labour rate	Same as in Item 21.85a			1988.35
	iii) 4% Bitumen content				
	Total Labour rate	Same as in Item 21.85a			1988.35
	iv) 4.5% Bitumen content				
	Total Labour rate	Same as in Item 21.85a			1988.35
	v) 5% Bitumen content				
	Total Labour rate	Same as in Item 21.85a			1988.35
	vi) 5.5% Bitumen content				
	Total Labour rate	Same as in Item 21.85a			1988.35
	vii) 6% Bitumen content				
	Total Labour rate	Same as in Item 21.85a			1988.35
Cu.m	d) Supply of consolidated thickness of asphalt concrete premixed bituminous carpet using bitumen 80/100 or of any approved grade with following percentage including compaction and finishing to required camber, grade and density. Coarse aggregate from approved source by Bitmac plant.				
	i) 3% Bitumen content				
	Detail of cost for 100 tons				
	As per job mix formula marshal stability 1200 lbs per sq.in. and density 145 lbs/ cu.ft. 1.5" thick layer for 124 sq.ft of surface area = $124 \times 3/2 \times 1/12 = 15.5$ cu.ft.				
	According to the above density 15.5 cu.ft will weigh $145 \times 15.5 = 2247$ lbs say one ton. As per job mix formula take the weight of dry mix = 2144 lbs with break up:				

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Crushed stone	50% of 2144	1072.00	Lbs. =	486.26 Kgs.
	Sand	49% of 2144	1050.56	Lbs. =	476.53 Kgs.
	Cement	1% of 2144	21.44	Lbs. =	9.73 Kgs.
	Bitumen 80/100	3% of 2144	64.32	Lbs. =	29.18 Kgs.
	Total		2208.32	Lbs. =	1001.69 Kgs.
	Hence material for 100 tons to cover 12400 sq.ft (1152.5 sq.m.) pavement crushed stone size 3/4" to down gauge				
	Crushed aggregate	486x100x1/1600	30.39	Cu.m.	
	Sand	476.5x100x1/1600	29.78	Cu.m.	
	Cement	9.73x100	972.51	Kg.	
	Bitumen 60/70	29.18 x 100	2917.54	Kg.	
			2917.54	Kg.	
	1. Material				
	Bitumen 60/70		2917.54	Kg. @	78.00 227,568
	Approved Crushed Aggregate 3/4" -3/8"		30.39	Cu.m. @	1296.75 39,410
	Approved Coarse Sand		29.78	Cu.m. @	1059.30 31,549
	Cement OPC		972.51	Kg. @	10.50 10,211
	Wire brush		3.00	No. @	50.00 150
	Fuel wood		15.00	No. @	15.00 225
					309,113
	2. Tools and plant				
	Bitmac Plant		1.00	Hrs @	8000.00 8,000
	Total of 1 & 2				309,113
	Contractor's profit & overhead			20%	61,823
	Total				370,936 A
	Total Composite rate = A /100 + Lab. rate				12668.14
					12668.15
	ii) 3.5% Bitumen content				
	Total Composite rate				13301.55
	iii) 4% Bitumen content				
	Total Composite rate				13966.65
	iv) 4.5% Bitumen content				
	Total Composite rate				14665.00
	v) 5% Bitumen content				
	Total Composite rate				15398.25
	vi) 5.5% Bitumen content				
	Total Composite rate				16168.15
	vii) 6% Bitumen content				
	Total Composite rate				16976.55
	Item No. 21-86				
	a) ReflectORIZED Plastic Pavement Stud (Raised Profile Type - Single)				
	1. Labour				
	Labourer		0.25	Hrs @	87.50 21.9
	2. Material				
	Cats-eye Single (Raised surface) Plastic		1.00	Nos. @	300.00 300.0
					21.90

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	321.9	
			64.4	
			386.3	386.25
b) ReflectORIZED Plastic Pavement Stud (Raised Profile Type - Double)				
1. Labour				
	Labourer	0.25	Hrs @ 87.50	21.9
	2. Material			
	Cats-eye Double (Raised surface) Plastic	1.00	Nos. @ 325.00	<u>325.0</u>
				346.9

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	69.4	
			416.3	416.25
c)	ReflectORIZED Plastic Pavement Stud (Flushed Profile Type - Single)			
1. Labour				
Labourer	0.25 Hrs @	87.50	21.9	21.90
2. Material				
Cats-eye Single (Flush surface) Plastic	1.00 Nos. @	275.00	275.0	
			296.9	
Contractor's profit & overhead	20%		59.4	
			356.3	356.25
d)	ReflectORIZED Plastic Pavement Stud (Flushed Profile Type - Double)			
1. Labour				
Labourer	0.25 Hrs @	87.50	21.9	21.90
2. Material				
Cats-eye Double (Raised surface) Plastic	1.00 Nos. @	325.00	325.0	
			346.9	
Contractor's profit & overhead	20%		69.4	
			416.3	416.25
e)	ReflectORIZED Aluminium Pavement Stud (Raised Profile Type - Single)			
1. Labour				
Labourer	0.25 Hrs @	87.50	21.9	21.90
2. Material				
Cats-eye Single (Raised surface) Aluminium	1.00 Nos. @	400.00	400.0	
			421.9	
Contractor's profit & overhead	20%		84.4	
			506.3	506.25
f)	ReflectORIZED Aluminium Pavement Stud (Raised Profile Type - Double)			
1. Labour				
Labourer	0.25 Hrs @	87.50	21.9	21.90
2. Material				
Cats-eye Double (Raised surface) Aluminium	1.00 Nos. @	425.00	425.0	
			446.9	
Contractor's profit & overhead	20%		89.4	
			536.3	536.25
g)	ReflectORIZED Aluminium Pavement Stud (Flushed Profile Type - Single)			
1. Labour				
Labourer	0.25 Hrs @	87.50	21.9	21.90
2. Material				
Cats-eye Single (Raised surface) Aluminium	1.00 Nos. @	400.00	400.0	
			421.9	
Contractor's profit & overhead	20%		84.4	
			506.3	506.25
h)	ReflectORIZED Aluminium Pavement Stud (Flushed Profile Type - Double)			
1. Labour				
Labourer	0.25 Hrs @	87.50	21.9	21.90
2. Material				
Cats-eye Double (Flush surface) Aluminium	1.00 Nos. @	375.00	375.0	
			396.9	
Contractor's profit & overhead	20%		79.4	
			476.3	476.25
	Item No. 21-87			
a)	P/F of synthetic rubber speed hump 5 Cm high & 35 Cm wide alternate black & yellow combination			

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1.labour					
	Labourer	0.50	Hrs @	87.50	43.75
	Contractor's profit & overhead			20%	8.75
					<u>52.5</u>
					52.50
2. Material					
	synthetic rubber speed hump 5 Cm high & 35 Cm wide alternate black & yellow combination	1.00	RM @	750.00	750.0
	Contractor's profit & overhead			20%	150.00
					<u>900.0</u>
					900.00
b) P/F of metal speed hump 5 Cm high & 35 Cm wide alternate black & yellow combination					
1.labour					
	Labourer	0.50	Hrs @	87.50	43.75
	Contractor's profit & overhead			20%	8.75
					<u>52.5</u>
					52.50
2. Material					
	synthetic rubber speed hump 5 Cm high & 35 Cm wide alternate black & yellow combination	1.00	RM @	850.00	850.0
	Contractor's profit & overhead			20%	170.00
					<u>1020.0</u>
					1020.00
Item No. 21-88					
Cold Milling of the Pavement					
Sq.m.	a) (0 to 30 mm)				
1.labour					
	Labourer	30.00	Hrs @	87.50	2625.00
	Contractor's profit & overhead			20%	525.00
					<u>31.5</u>
					31.50
2. Equipment					
	Cold Milling Machine. 1 M Width	1.00	Hrs @	8500.00	8500.0
	Water tanker, 1000 gallon capacity	1.00	Hrs @	583.00	583.0
					<u>9083.0</u>
	Contractor's profit & overhead			20%	1816.60
					<u>109.0</u>
					109.00
Sq.m.	b) (0 to 50 mm)				
For 100 Sq.m					
1.labour					
	Labourer	30.00	Hrs @	87.50	2625.00
	Contractor's profit & overhead			20%	525.00
					<u>31.5</u>
					31.50
2. Equipment					
	Cold Milling Machine. 1 M Width	1.50	Hrs @	8500.00	12750.0
	Water tanker, 1000 gallon capacity	1.50	Hrs @	583.00	874.5
					<u>13624.5</u>
	Contractor's profit & overhead			20%	2724.90
					<u>163.5</u>
					163.50
Sq.m.	c) (0 to 70 mm)				

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
For 100 Sq.m					
1.labour					
	Labourer	30.00	Hrs @	87.50	2625.00
	Contractor's profit & overhead			20%	525.00
					31.5
					31.50
2. Equipment					
	Cold Milling Machine. 1 M Width	2.75	Hrs @	8500.00	23375.0
	Water tanker, 1000 gallon capacity	2.75	Hrs @	583.00	1603.3
					24978.3
	Contractor's profit & overhead			20%	4995.65
					299.7
					299.75
Item No. 21-89-1					
Sq.m.	Scarification of existing road pavement.				
1.labour					
	Labourer	0.05	Hrs @	87.50	4.38
	Contractor's profit & overhead			20%	0.88
					5.3
					5.25
2. Equipment					
	Bulldozer C-14	0.005	Hrs @	3597.00	18.0
	Contractor's profit & overhead			20%	3.60
					21.6
					21.60
Item No. 21-90-1					
Sq.m.	Supply and Fixing of Concrete pavers on sand cushion of different designs having thickness of 60 mm, mechanically compressed, minimum strength of 4500 psi after laboratory testing at factory and random testing at site as and when desired by the Engineer incharge complete in all respects. (No PCC work is permitted underneath this item of work).				
1.labour					
	Mason	0.33	Hrs @	125.00	41.25
	Labourer	0.33	Hrs @	87.50	28.88
	Contractor's profit & overhead			20%	14.03
					84.2
					84.15
2. Material					
	Paver 60 mm (4500 Psi) Coloured	1.000	Sq.m @	667.12	667.1
	Approved Coarse Sand	0.08	Cu.m. @	1059.30	80.7
					747.9
3. Equipment					
	Plate Compactor	0.11	Hrs @	300.00	33.33
	Water Charges			5%	39.1
	Contractor's profit & overhead			20%	164.05
					996.1
					996.05

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Item No. 21-91-1				
Sq.m.	Supply and Fixing of Concrete pavers on 3" thick sand cushion of different designs having thickness of 80 mm, mechanically compressed, minimum strength of 7000 psi after laboratory testing at factory and random testing at site as and when desired by the Engineer incharge complete in all respects. (No PCC work is permitted underneath this item of work)				
	1.labour				
	Mason	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
	Contractor's profit & overhead			20%	30.00
					180.0
					180.00
	2. Material				
	Paver 80 mm (7000 Psi) Grey	1.000	Sq.m @	1076.00	1076.0
	Approved Coarse Sand	0.08	Cu.m @	1059.30	80.7
					1156.7
	3. Equipment				
	Plate Compactor	0.11	Hrs @	300.00	33.33
	Water Charges			5%	59.5
	Contractor's profit & overhead			20%	249.92
					1586.7
					1586.65
	Item No. 21-92				
RM.	Supplying and installation of hydraulically compressed PCC Kerbstone in natural colour, having strength of 3500 (Psi). Including cost of PCC.				
	a) Kerb Stone (300mm x 350mm x 150mm)				
	1.labour				
	Mason	0.16	Hrs @	125.00	20.00
	Labourer	0.16	Hrs @	87.50	14.00
	Contractor's profit & overhead			20%	6.80
					40.8
					40.80
	2. Material				
	Kerb Stone (300mm x 350mm x 150mm)	3.330	Nos. @	220.00	732.6
	Contractor's profit & overhead			20%	146.52
					919.9
					919.90
	b) Kerb Stone (300mm x 450mm x 150mm)				
	1.labour				
	Mason	0.16	Hrs @	125.00	20.00
	Labourer	0.16	Hrs @	87.50	14.00
	Contractor's profit & overhead			20%	6.80
					40.8
					40.80
	2. Material				
	Kerb Stone (300mm x 450mm x 150mm)	3.330	Nos. @	280.00	932.4
	Contractor's profit & overhead			20%	186.48
					1159.7
					1159.70
	Item No. 21-93				
Sq.m	UV stabilized polypropylene Geotextile consisting of filaments of approximately 40 microns diameter as mentioned in specification or as per manufactures recommendation.				
	1.labour				
	Mason	0.05	Hrs @	125.00	6.25

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Labourer	0.05 Hrs @ 87.50	4.38		
Contractor's profit & overhead	20%	2.13		
		<u>12.8</u>		12.75
2. Material				
Geotextile	1.000 Sq.m @ 100.00	100.0		
Contractor's profit & overhead	20%	20.00		
		<u>132.8</u>		132.75

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 22-1-1**Per cut Cutting Ransome or Larson or similar piles.**

1. Labour

Black smith 2.00 Hrs @ 112.00 224.00

Contractor's profit & overhead 20% 44.80

Total Labour rate 268.80 **269****Item No. 22-2-1****Per cut Cutting universal piles.**

1. Labour

Black smith 3.00 Hrs @ 112.00 336.00

Contractor's profit & overhead 20% 67.20

Total Labour rate 403.20 **403****Item No. 22-3-1****Sq.m. Driving steel piles above 7.5 m. to 9 m.**

Detail of cost for 10 Sq.m.

1. Labour

Skilled labourer 34.00 Hrs @ 90.00 3060.00

Labourer 16.00 Hrs @ 87.50 1400.00

4460.00

Contractor's profit & overhead 20% 892.00

Total Labour rate 535.20 **535****Item No. 22-4-1****Sq.m. Driving steel piles above 4.50 m. to 7.50 m.**

Detail of cost for 10 Sq.m.

1. Labour

Skilled labourer 32.00 Hrs @ 90.00 2880.00

Labourer 16.00 Hrs @ 87.50 1400.00

4280.00

Contractor's profit & overhead 20% 856.00

Total Labour rate 513.60 **514****Item No. 22-5-1****Sq.m. Driving steel piles upto 4.5 m.**

Detail of cost for 10 Sq.m.

1. Labour

Skilled labourer 20.00 Hrs @ 90.00 1800.00

Labourer 16.00 Hrs @ 87.50 1400.00

3200.00

Contractor's profit & overhead 20% 640.00

Total Labour rate 384.00 **384****Item No. 22-6-1****Each Dolleying piles.**

1. Labour

Dolley man 1.50 Hrs @ 90.00 135.00

Labourer 1.50 Hrs @ 87.50 131.25

266.25

Contractor's profit & overhead 20% 53.25

Total Labour rate 319.50 **320****Item No. 22-7**

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each	Drilling holes in piles by hand.			
	Detail of cost for 10 Sq.m.			
	1. Labour			
	Black smith	2.75	Hrs @ 112.00	308.00
	Contractor's profit & overhead		20%	61.60
	Total Labour rate			<u>36.96</u>
				37
	Item No. 22-8-1			
R.M.	Raising and lowering machine.			
	1. Labour			
	Fitter	26.00	Hrs @ 87.50	2,275.00
	Skilled labourer	104.00	Hrs @ 90.00	9,360.00
	Labourer	52.00	Hrs @ 87.50	4,550.00
				<u>16,185.00</u>
	Contractor's profit & overhead		20%	3,237.00
	Total Labour rate			<u>19,422.00</u>
				19,422
	Item No. 22-9-1			
Each Job	Turning machine 90 degrees			
	1. Labour			
	Fitter	8.00	Hrs @ 87.50	700.00
	Skilled labourer	32.00	Hrs @ 90.00	2,880.00
	Labourer	16.00	Hrs @ 87.50	1,400.00
				<u>4,980.00</u>
	Contractor's profit & overhead		20%	996.00
	Total Labour rate			<u>5,976.00</u>
				5,976
	Item No. 22-10-1			
Each Job	Turning machine 135 degrees			
	1. Labour			
	Fitter	8.00	Hrs @ 87.50	700.00
	Skilled labourer	44.00	Hrs @ 90.00	3,960.00
	Labourer	40.00	Hrs @ 87.50	3,500.00
				<u>8,160.00</u>
	Contractor's profit & overhead		20%	1,632.00
	Total Labour rate			<u>9,792.00</u>
				9,792
	Item No. 22-11-1			
Each Job	Turning machine 180 degrees			
	1. Labour			
	Fitter	8.00	Hrs @ 87.50	700.00
	Skilled labourer	56.00	Hrs @ 90.00	5,040.00
	Labourer	56.00	Hrs @ 87.50	4,900.00
				<u>10,640.00</u>
	Contractor's profit &		20%	2,128.00
	Total Labour rate			<u>12,768.00</u>
				12,768
	Item No. 22-12-1			
Per 30m	Travelling machine (light) in working area.			
	1. Labour			
	Fitter	9.75	Hrs @ 87.50	853.13
	Skilled labourer	62.50	Hrs @ 90.00	5,625.00
	Labourer	67.00	Hrs @ 87.50	5,862.50
				<u>12,340.63</u>
	Contractor's profit & overhead		20%	2,468.13
	Total Labour rate			<u>14,808.75</u>
				14,809

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 22-13-1				
Tonne	Loading and/or unloading piles.			
	1. Labour			
	Labourer	3.00	Hrs @ 87.50	262.50
	Contractor's profit & overhead		20%	52.50
	Total Labour rate			<u>315.00</u>
				315
Item No. 22-14-1				
Each Job	Dismantling piling machine.			
	1. Labour			
	Foreman	24.00	Hrs @ 125.00	3,000
	Fitter	72.00	Hrs @ 87.50	6,300
	Skilled labourer	48.00	Hrs @ 90.00	4,320
	Labourer	76.00	Hrs @ 87.50	6,650
				<u>20,270</u>
	Contractor's profit & overhead		20%	4,054
	Total Labour rate			<u>24,324</u>
				24,324
Item No. 22-15-1				
Each Job	Erecting piling machine			
	1. Labour			
	Foreman	24.00	Hrs @ 125.00	3,000
	Fitter	144.00	Hrs @ 87.50	12,600
	Skilled labourer	104.00	Hrs @ 90.00	9,360
	Labourer	80.00	Hrs @ 87.50	7,000
				<u>31,960</u>
	Contractor's profit & overhead		20%	6,392
	Total Labour rate			<u>38,352</u>
				38,352
Item No. 22-16-1				
Per 30m	Carriage of piling machine under different conditions in working area.			
	1. Labour			
	Fitter	7.50	Hrs @ 87.50	656
	Skilled labourer	19.50	Hrs @ 90.00	1,755
	Labourer	29.50	Hrs @ 87.50	2,581
				<u>4,993</u>
	Contractor's profit & overhead		20%	999
	Total Labour rate			<u>5,991</u>
				5,991
Item No. 22-17-1				
Per day	Hire charges of piling plant with accessories including fuel, pay of operator and other mechanical staff, mobilization, demobilization and idle time.			
	Piling plant including fuel, operator & other staff	8.00	Hrs @ 5000.00	40,000
	Mobilization/demobilization and idle time		5%	2,000
	Contractor's profit & overhead		20%	8,400
	Total Labour rate			<u>50,400</u>
				50,400

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 23-1

Providing and fixing European type glazed earthenware water closet ICL Boch/Forte or approved equivalent make including cost of inlet pipe, lid cistern kit, stop cock deluxe and other accessories, fitting material such as brackets, PVC down pipe where required, rubber rings/washers, making requisite number of holes in walls, plinth and floor for pipe connection and making good with approved material.

Each a) Water closet floride coupled/4030**i) White**

1. Labour

Plumber	2.50	Hrs @	125.00	312.50
Labourer	6.00	Hrs @	87.50	525.00

837.50

Contractor's profit & overhead

20%

167.50

Total Labour rate

1005.00

1005.00

2. Material

W.C. Floride coupled 4030 white colour	1.00	No. @	2750.00	2750.00
Cistern 4030 white colour	1.00	No. @	1400.00	1400.00

4150.00 A

Total (A)

Other materials

Seat cover	1.00	No. @	418.00	418.00
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Cistern bolt kit	1.00	No. @	38.50	38.50
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Stop cock 1/2"	1.00	No. @	990.00	990.00
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Screws			2%	83.00
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Total (B) 1529.50 B

Total (A + B) 5679.50

Contractor's profit & overhead

20%

305.90

Total Composite rate

8519.90

8519.90**Each ii) Coloured**

1. Labour

Total Labour rate	Same as in item 23-1(a)1			1005.00
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1005.00

2. Material

W.C. Floride coupled 4030 coloured	1.00	No. @	2860.00	2860.00
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Cistern 4030 coloured	1.00	No. @	1600.00	1600.00
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Other materials	Same as in item 23-1(a)1			1529.50
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5989.50

Contractor's profit & overhead

20%

1197.90

Total Composite rate

8192.40

8192.40**Each b) W.C. fregate coupled/4006****i) White**

1. Labour

Total Labour rate	Same as in item 23-1(a)1			1005.00
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1005.00

2. Material

W.C. Fregate 4006 white colour	1.00	No. @	4500.00	4500.00
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Cistern 4006 white colour	1.00	No. @	1500.00	1500.00
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Other materials	Same as in item 23-1(a)1			1529.50
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7529.50

Contractor's profit & overhead

20%

1505.90

Total Composite rate

10040.40

10040.40**Each ii) Coloured**

1. Labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate Same as in item 23-1(a)1		1005.00	1005.00
	2. Material			
	W.C. Fregate 4006 coloured	1.00	No. @ 5500.00	5500.00
	Cistern 4006 coloured	1.00	No. @ 1750.00	1750.00
	Other materials Same as in item 23-1(a)1			1529.50
				<u>8779.50</u>
	Contractor's profit & overhead		20%	1755.90
	Total Composite rate			<u>11540.40</u>
				11540.40
Each	c) W.C. non-coupled 7HU			
	i) White			
	1. Labour			
	Total Labour rate Same as in item 23-1(a)1		1005.00	1005.00
	2. Material			
	W.C. Non-coupled 7HU white colour	1.00	No. @ 3300.00	3300.00
	Cistern 4006 white colour	1.00	No. @ 1500.00	1500.00
	Other materials Same as in item 23-1(a)1			1529.50
				<u>6329.50</u>
	Contractor's profit & overhead		20%	1265.90
	Total Composite rate			<u>8600.40</u>
				8600.40
Each	ii) Coloured			
	1. Labour			
	Total Labour rate Same as in item 23-1(a)1		1005.00	1005.00
	2. Material			
	W.C. Non-coupled 7HU coloured	1.00	No. @ 3200.00	3200.00
	Cistern 4006 coloured	1.00	No. @ 1750.00	1750.00
	Other materials Same as in item 23-1(a)1			1529.50
				<u>6479.50</u>
	Contractor's profit & overhead		20%	1295.90
	Total Composite rate			<u>8780.40</u>
				8780.40

Item No. 23-2

Providing and fixing squatting type water closet with integral treads ICL Boch/Karam Cera or approved equivalent make including cost of inlet pipe cistern and lid cistern kit, stop cock deluxe type and other accessories, fittings, brackets, PVC down pipe, rubber rings/washers, making requisite number of holes in walls, plinth and floor for pipe connection and making good with approved material.

Each a) W.C. Indian/Desi/902 with glazed earthen ware 4" (100 mm) trap**i) White****1. Labour**

Plumber	4.00	Hrs @	125.00	500.00
Labourer	4.00	Hrs @	87.50	350.00
				<u>850.00</u>

Contractor's profit & overhead			20%	170.00
Total Labour rate				<u>1020.00</u>

1020.00**2. Material**

W.C. Indian 902 white colour	1.00	No. @	2200.00	2200.00
Cistern 4006 white colour	1.00	No. @	1500.00	1500.00
				<u>3700.00</u>

3700.00 A

Other materials

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Cistern bolt kit	1.00	No.	@ 38.50	38.50	
	Stop cock 1/2"	1.00	No.	@ 990.00	990.00	
	W.C. PVC down pipe	1.00	No.	@ 77.00	77.00	
	W.C. trap 4"	1.00	No.	@ 137.50	137.50	
	Screws			2%	74.00	
					<u>1317.00</u>	B
	Total A + B				5229.50	
	Contractor's profit & overhead			20%	1045.90	
	Total Composite rate				7295.40	7295.40
Each	ii) Coloured					
	1. Labour					
	Total Labour rate			Same as in item 23-2(a)1	1020.00	1020.00
	W.C. Indian 902 coloured	1.00	No.	@ 3500.00	3500.00	
	Cistern 4006 coloured	1.00	No.	@ 1750.00	1750.00	
	Other materials			Same as in item 23-2(a)1	1317.00	
					<u>6567.00</u>	
	Contractor's profit & overhead			20%	1313.40	
	Total Composite rate				8900.40	8900.40
Each	b) W.C. Orisa/Asian/900 with glazed earthen ware 4" (100 mm) trap					
	i) White					
	1. Labour					
	Total Labour rate			Same as in item 23-2(a)1	1020.00	1020.00
	2. Material					
	W.C. Asian/Orisa/900 white	1.00	No.	@ 2800.00	2800.00	
	Cistern 4006 white colour	1.00	No.	@ 1500.00	1500.00	
	Other materials			Same as in item 23-2(a)1	1317.00	
					<u>5617.00</u>	
	Contractor's profit & overhead			20%	1123.40	
	Total Composite rate				6740.40	6740.40
Each	ii) Coloured					
	1. Labour					
	Total Labour rate			Same as in item 23-2(a)1	1020.00	1020.00
	W.C. Asian/Orisa/900 coloured	1.00	No.	@ 2500.00	2500.00	
	Cistern 4006 coloured	1.00	No.	@ 1750.00	1750.00	
	Other materials			Same as in item 23-2(a)1	1317.00	
					<u>5567.00</u>	
	Contractor's profit & overhead			20%	1113.40	
	Total Composite rate				7700.40	7700.40
	Item No. 23- 3					
Each	Providing and fixing European type glazed earthenware water closet ICL Ifo/Forte or approved equivalent make including cost of inlet pipe, lid cistern kit, stop cock deluxe and other accessories, fitting material such as brackets, PVC down pipe where required, rubber rings/washers, making requisite number of holes in walls, plinth and floor for pipe connection and making good with approved material.					
	a) White					
	1. Labour					
	Plumber	4.00	Hrs	@ 125.00	500.00	
	Labourer	4.00	Hrs	@ 87.50	350.00	
					<u>850.00</u>	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	170.00	
	Total Labour rate		1020.00	1020.00
	2. Material			
	W.C. Ifo white colour	1.00 No. @	8800.00	8800.00 A
	Other materials			
	Seat cover	1.00 No. @	418.00	418.00
	Cistern bolt kit	1.00 No. @	38.50	38.50
	Stop cock 1/2"	1.00 No. @	990.00	990.00
	Screws	2%	176.00	
			1622.50	B
	Total A + B		10422.50	
	Contractor's profit & overhead	20%	2084.50	
	Total Composite rate		13527.00	13527.00
Each	b) Coloured			
	1. Labour			
	Total Labour rate	Same as in item 23-3(a)	1020.00	1020.00
	2. Material			
	W.C. Ifo coloured	1.00 No. @	8500.00	8500.00
	Other materials	Same as in item 23-3(a)	1622.50	
			10122.50	
	Contractor's profit & overhead	20%	2024.50	
	Total Composite rate		13167.00	13167.00
	Item No. 23- 4			
	Providing and fixing export quality ICL Boch/Karam Cera or equivalent make flat back lipped front urinal basin or glazed earthen ware with and including the cost of 1 gallon (4.5 lit) C.I automatic flushing cistern with fittings a pet cock C.I. or W.I. brackets standard flush pipe with fittings, standard waste pipe (enamelled iron) connection and making good with approved material.			
Each	a) Urinal 6003			
	i) White			
	1. Labour			
	Plumber	3.00 Hrs @	125.00	375.00
	Labourer	3.00 Hrs @	87.50	262.50
			637.50	
	Contractor's profit & overhead	20%	127.50	
	Total Labour rate		765.00	765.00
	Urinal 6003 white	1.00 No. @	1100.00	1100.00 A
	Other materials			
	C.I. automatic flushing cistern	1.00 No. @	2700.00	2700.00
	Flush pipe with C.P. accessories	1.00 No. @	600.00	600.00
	C.I. bracket for flushing cistern	1.00 Pair @	200.00	200.00
	PVC waste pipe	1.00 No. @	150.00	150.00
	Rubber connection	1.00 No. @	85.00	85.00
	Screws	2%	22.00	
			3757.00	B
	Total A + B		4857.00	
	Contractor's profit & overhead	20%	971.40	
	Total Composite rate		6593.40	6593.40
Each	ii) Coloured			
	1. Labour			
	Total Labour rate	Same as in item 23-4(a)1	765.00	765.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Material			
	Urinal 6003 coloured	1.00	No. @ 1200.00	1200.00
	Other materials Same as in item 23-4(a)1			3757.00
				<u>4957.00</u>
	Contractor's profit & overhead		20%	991.40
	Total Composite rate			<u>6713.40</u>
				6713.40
	b) Urinal 6001			
Each	i) White			
	1. Labour			
	Total Labour rate Same as in item 23-4(a)1			765.00
				765.00
	2. Material			
	Urinal 6001 white	1.00	No. @ 1000.00	1000.00
	Other materials Same as in item 23-4(a)1			3757.00
				<u>4757.00</u>
	Contractor's profit & overhead		20%	951.40
	Total Composite rate			<u>6473.40</u>
				6473.40
Each	ii) Coloured			
	1. Labour			
	Total Labour rate Same as in item 23-4(a)1			765.00
				765.00
	2. Material			
	Urinal 6001 coloured	1.00	No. @ 1000.00	1000.00
	Other materials Same as in item 23-4(a)1			3757.00
				<u>4757.00</u>
	Contractor's profit & overhead		20%	951.40
	Total Composite rate			<u>6473.40</u>
				6473.40
	Item No. 23-5			
	Providing and fixing export quality glazed earthen ware wash basin manufactured by ICL Boch/Karam Cera or equivalent approved make with single hole chromium plated mixer tap 1/2" (15mm), pillar tap delux, stop cocks, C.I. or W.I. brackets 6" (150mm) built into walls 1.5" (40mm) C.P. brass waste with malleable iron or C.P. brass trap with malleable iron or brass union and making requisite number of holes in walls, plinth and floor for pipe connections and making good with approved material.			
Each	a) Wash basin 18" (450 mm) without pedestal			
	i) White			
	1. Labour			
	Plumber	3.00	Hrs @ 125.00	375.00
	Labourer	3.00	Hrs @ 87.50	262.50
				<u>637.50</u>
	Contractor's profit & overhead		20%	127.50
	Total Labour rate			<u>765.00</u>
				765.00
	2. Materials			
	W.B. 18" (450 mm) white colour	1.00	No. @ 1500.00	1500.00 A
	Other materials			
	W.B. bolt kit	1.00	No. @ 390.50	390.50
	C.P. mixer single hole deluxe	1.00	No. @ 3000.00	3000.00
	W.B. stop cock	2.00	No. @ 990.00	1980.00
	W.B. C.P. brass chain	1.00	No. @ 165.00	165.00
	C.P. brass waste	1.00	No. @ 780.00	780.00
	Bottle trap	1.00	No. @ 760.00	760.00

Unit	Description	Component Cost		Unit Rate
		(Rs)		(Rs)
	Total A + B		7075.50 B	
	Contractor's profit & overhead	20%	8575.50	
	Total Composite rate		1715.10	
			<u>11055.60</u>	11055.60
Each	ii) Coloured			
	1. Labour			
	Total Labour rate	Same as in item 23-5(a)1	765.00	765.00
	2. Material			
	W.B. 18" (450 mm) coloured	1.00 No. @	1680.00	1680.00
	Other materials	Same as in item 23-5(a)1	7075.50	
			<u>8755.50</u>	
	Contractor's profit & overhead	20%	1751.10	
	Total Composite rate		<u>11271.60</u>	11271.60
	b) Wash basin 24" (610 mm) Futura without pedestal			
Each	i) White			
	1. Labour			
	Total Labour rate	Same as in item 23-5(a)1	765.00	765.00
	2. Material			
	W.B. 24" white colour ICL Futura 2041/60	1.00 No. @	2100.00	2100.00
	Other materials	Same as in item 23-5(a)1	7075.50	
			<u>9175.50</u>	
	Contractor's profit & overhead	20%	1835.10	
	Total Composite rate		<u>11775.60</u>	11775.60
Each	ii) Coloured			
	1. Labour			
	Total Labour rate	Same as in item 23-5(a)1	765.00	765.00
	2. Material			
	W.B. 24" coloured ICL Futura 2041/60	1.00 No. @	2200.00	2200.00
	Other materials	Same as in item 23-5(a)1	7075.50	
			<u>9275.50</u>	
	Contractor's profit & overhead	20%	1855.10	
	Total Composite rate		<u>11895.60</u>	11895.60
	c) Wash basin 26" (650 mm) without pedestal			
Each	i) White			
	1. Labour			
	Total Labour rate	Same as in item 23-5(a)1	765.00	765.00
	2. Material			
	W.B. 26" white colour ICL 2032/66	1.00 No. @	2400.00	2400.00
	Other materials	Same as in item 23-5(a)1	7075.50	
			<u>9475.50</u>	
	Contractor's profit & overhead	20%	1895.10	
	Total Composite rate		<u>12135.60</u>	12135.60
Each	ii) Coloured			
	1. Labour			
	Total Labour rate	Same as in item 23-5(a)1	765.00	765.00
	2. Material			
	W.B. 26" coloured ICL 2032/65	1.00 No. @	2300.00	2300.00
	Other materials	Same as in item 23-5(a)1	7075.50	
			<u>7075.50</u>	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			9375.50	
	Contractor's profit & overhead	20%	1875.10	
	Total Composite rate		12015.60	12015.60
d) Extra over above for providing and fixing white glazed earthen ware pedestal manufactured by ICL/Karam Cera or approved equivalent make.				
Each	i) White			
	1. Labour			
	Plumber	0.50 Hrs @	125.00	62.50
	Labourer	0.75 Hrs @	87.50	65.63
				128.13
	Contractor's profit & overhead	20%	25.63	
	Total Labour rate		153.75	153.75
	Pedestal white colour			
		1.00 No. @	1320.00	1320.00
	Contractor's profit & overhead	20%	264.00	
	Total Composite rate		417.75	417.75
Each	ii) Coloured			
	1. Labour			
	Total Labour rate	Same as in item 23-5(d)1		153.75
				153.75
	Pedestal coloured			
		1.00 No. @	1491.60	1491.60
	Contractor's profit & overhead	20%	298.32	
	Total Composite rate		452.07	452.05
Item No. 23- 6				
Providing and fixing English or approved equivalent bath tub of desired colour with and including the cost of 1.5" dia. C.P. brass waste, 1.25" dia. brass overflow, (3/4") size C.P. brass pillar taps, C.P. brass chain with rubber plug and making required number of holes in walls plinth and floor for pipe connections and making good with approved material.				
Each	a) Porcelain enamelled cast iron bath tub 66" x 28" x 23" size			
	1. Labour			
	Plumber	10.00 Hrs @	125.00	1250.00
	Labourer	10.00 Hrs @	87.50	875.00
				2125.00
	Contractor's profit & overhead	20%	425.00	
	Total Labour rate		2550.00	2550.00
	Bath tub porcelain enamelled			
		1.00 No. @	17000.00	17000.00 A
	Other materials			
	W.B. bolt kit	1.00 No. @	390.50	390.50
	C.P. mixer single hole deluxe	1.00 No. @	3000.00	3000.00
	W.B. stop cock	2.00 No. @	990.00	1980.00
	W.B. C.P. brass chain	1.00 No. @	165.00	165.00
				5535.50 B
	Total A + B		22535.50	
	Contractor's profit & overhead	20%	4507.10	
	Total Composite rate		29592.60	29592.60
Each	b) Fibre glass bath tub 72" x 28" x 23"			
	1. Labour			
	Total Labour rate	Same as in item 23-6(a)		2550.00
				2550.00
	Bath tub fibre glass			
		1.00 No. @	14000.00	14000.00
	Other materials			
		Same as in item 23-6(a)		5535.50
	Total			19535.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	3907.10	
Total Composite rate		<u>25992.60</u>	25992.60

Item No. 23- 7-1

Each Providing and fixing ICL /Karam cera or approved equivalent make glazed earthen ware shower tray including fittings, bib cok, stop cock, shower kit, trap and making requisite numbers of holes and making good with approved material.

1. Labour					
Total Labour rate	Same as in item 23-3(a)			1020.00	1020.00
Shower tray, glazed	1.00	No. @	188.00	188.00	
C.P. bib cock 1/2"	1.00	No. @	900.00	900.00	
Stop cock with C.P. cover	1.00	No. @	1080.00	1080.00	
Shower kit	1.00	No. @	1000.00	1000.00	
Trap, ceramic china	1.00	No. @	312.50	312.50	
Screws		2%		3.76	
				<u>3484.26</u>	
Contractor's profit & overhead	20%			696.85	
Total Composite rate				<u>5201.11</u>	5201.10

Item No. 23- 8

Providing and fixing stainless steel sink Pakistan made with C.I. or W.I brackets 6" built in wall, 1.5" (40 mm) rubber plug,C.P. brass chain, C.P. brass waste, pillar tap 2 way delux, 1.5" dia malleable iron or C.P. brass trap and unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good with approved material.

Each a) Stainless steel sink 40" x 20" (1000 mm x 500 mm)

1. Labour					
Plumber	4.00	Hrs @	125.00	500.00	
Labourer	4.00	Hrs @	87.50	350.00	
				<u>850.00</u>	
Contractor's profit & overhead	20%			170.00	
Total Labour rate				<u>1020.00</u>	1020.00
Sink stainless steel 42" x 24"	1.00	No. @	4000.00	4000.00	A
Other materials					
Sink bracket C.I.	1.00	Pair @	400.00	400.00	
Sink plug with chain	1.00	No. @	350.00	350.00	
Sink C.P. brass waste	1.00	No. @	375.00	375.00	
Sink pillar tap 2 way	1.00	No. @	1200.00	1200.00	
Screws		2%		80.00	
				<u>2325.00</u>	B
Total A + B				6325.00	
Contractor's profit & overhead	20%			1265.00	
Total Composite rate				<u>8610.00</u>	8610.00

Each b) Stainless steel sink 33" x 18" (825 mm x 450 mm)

1. Labour					
Total Labour rate	Same as in item 23-8(a)			1020.00	1020.00
Sink stainless steel 42" x 24"	1.00	No. @	3000.00	3000.00	
Other materials	Same as in item 23-8(a)			2325.00	
Total				<u>5325.00</u>	
Contractor's profit & overhead	20%			1065.00	
Total Composite rate				<u>7410.00</u>	7410.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 23- 9

Providing and fixing floor trap of approved self cleaning design with screwed down grating with or without a vent arm with and including making requisite number of holes in walls, plinth and floor for pipe connection and making good with

Each a) C.I. floor trap 6" x 2" and 6" x 3" size with grating.

1. Labour					
Plumber	1.00	Hrs @	125.00	125.00	
Labourer	1.00	Hrs @	87.50	87.50	
				<u>212.50</u>	
Contractor's profit & overhead			20%	42.50	
Total Labour rate				<u>255.00</u>	255.00
2. Material					
C.P. floor trap with grating	1.00	No. @	1000.00	1000.00	
Contractor's profit & overhead			20%	200.00	
Total Composite rate				<u>1455.00</u>	1455.00

Each b) C.I. floor trap 4" dia. inlet and outlet with C.I. grating.

1. Labour					
Total Labour rate			Same as in item 23-9(a)	255.00	255.00
2. Material					
C.P. floor trap with grating	1.00	No. @	1200.00	1200.00	
Contractor's profit & overhead			20%	240.00	
Total Composite rate				<u>1695.00</u>	1695.00

Each c) C.I. floor trap 6" x 2" size with grating including concrete chamber all round

1. Labour					
Total Labour rate			Same as in item 23-9(a)	255.00	255.00
C.P. floor trap with grating	1.00	No. @	1000.00	1000.00	
Concrete chamber			30%	300.00	
				<u>1300.00</u>	
Contractor's profit & overhead			20%	200.00	
Total Composite rate				<u>1755.00</u>	1755.00

Each d) C.I. floor trap 6" x 4" size with grating including concrete chamber all round

1. Labour					
Total Labour rate			Same as in item 23-9(a)	255.00	255.00
C.P. floor trap with grating	1.00	No. @	1200.00	1200.00	
Concrete chamber			0.30	360.00	
				<u>1560.00</u>	
Contractor's profit & overhead			20%	240.00	
Total Composite rate				<u>2055.00</u>	2055.00

Item No. 23-10-1**Each Providing and fixing white glazed earthen ware export quality bidet with fittings in bath room.**

1. Labour					
Plumber	3.00	Hrs @	125.00	375.00	
Labourer	3.00	Hrs @	87.50	262.50	
				<u>637.50</u>	
Contractor's profit & overhead			20%	127.50	
Total Labour rate				<u>765.00</u>	765.00
Bidet	1.00	No. @	5300.00	5300.00	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Bidet kit	1.00	No. @ 5500.00	5500.00
	Stop cock with C.P. cover	2.00	No. @ 1080.00	2160.00
				<u>12960.00</u>
	Contractor's profit & overhead		20%	2592.00
	Total Composite rate			<u>16317.00</u>
				16317.00
	Item No. 23-11-1			
Each	Providing and fixing standing shower concealed in wall with approved quality control valves, mixer unit and moveable shower head.			
	1. Labour			
	Plumber	4.00	Hrs @ 125.00	500.00
	Labourer	4.00	Hrs @ 87.50	350.00
				<u>850.00</u>
	Contractor's profit & overhead		20%	170.00
	Total Labour rate			<u>1020.00</u>
				1020.00
	2. Materials			
	C.P. brass shower rose	1.00	No. @ 1500.00	1500.00
	C.P shower mixer complete set (Sonex, Master etc.)	1.00	No. @ 5500.00	5500.00
	C.P shower kit	1.00	No. @ 2600.00	2600.00
				<u>9600.00</u>
	Contractor's profit & overhead		20%	1920.00
	Total Composite rate			<u>12540.00</u>
				12540.00
	Item No. 23- 12-1			
Each	Providing and fixing C.P. brass telephonic shower including holder clamps, screw and bib cock.			
	1. Labour			
	Plumber	0.75	Hrs @ 125.00	93.75
	Labourer	0.75	Hrs @ 87.50	65.63
				<u>159.38</u>
	Contractor's profit & overhead		20%	31.88
	Total Labour rate			<u>191.25</u>
				191.25
	2. Materials			
	Shower telephonic	1.00	No. @ 1800.00	1800.00
	C.P. bib cock 1/2"	1.00	No. @ 900.00	900.00
	Clamps etc.		20%	360.00
				<u>3060.00</u>
	Contractor's profit & overhead		20%	612.00
	Total Composite rate			<u>3863.25</u>
				3863.25
	Item No. 23-13			
	Providing and fixing approved quality chromium plated towel rail with bracket and screws.			
Each	a) Towel rail 24" x 3/4" (600mm x 20mm)			
	1. Labour			
	Plumber	0.20	Hrs @ 125.00	25.00
	Labourer	0.20	Hrs @ 87.50	17.50
				<u>42.50</u>
	Contractor's profit & overhead		20%	8.50
	Total Labour rate			<u>51.00</u>
				51.00
	2. Materials			
	C.P. Towel rail with brackets and screws	1.00	No. @ 1560.00	1560.00
	Contractor's profit & overhead		20%	312.00
	Total Composite rate			<u>1923.00</u>
				1923.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Each b) Towel rail 30" x 3/4" (750mm x 20mm)

1. Labour					
Total Labour rate	Same as in item 23-13(a)			51.00	51.00
2. Materials					
C.P. Towel rail with brackets and screws	1.00	No.	@	1950.00	1950.00
Contractor's profit & overhead				20%	390.00
Total Composite rate					2391.00

Item No. 23-14-1**Each Providing and fixing approved quality C.P. brass toilet paper holder Master /Sonex or equivalent make.**

1. Labour					
Plumber	0.50	Hrs	@	125.00	62.50
Labourer	0.50	Hrs	@	87.50	43.75
					106.25
Contractor's profit & overhead				20%	21.25
Total Labour rate					127.50
					127.50
2. Materials					
C.P. brass toilet paper holder (Master, Sonex etc.)	1.00	No.	@	900.00	900.00
Contractor's profit & overhead				20%	180.00
Total Composite rate					1207.50
					1207.50

Item No. 23-15-1**Sq.M Providing and fixing looking mirror of Belgium/ Malaysian/ Indonesian glass with chromium plated screws.**

1. Labour					
Plumber	1.00	Hrs	@	125.00	125.00
Labourer	1.00	Hrs	@	87.50	87.50
					212.50
Contractor's profit & overhead				20%	42.50
Total Labour rate					255.00
					255.00
2. Materials					
Looking mirror	1.00	Sq.m.	@	1017.00	1017.00
Contractor's profit & overhead				20%	203.40
Total Composite rate					1475.40
					1475.40

Item No. 23-16**Providing and fixing shelf of standard size.****Each a) Glass shelf of 24" x 5" size with guard rails & C.P. brackets.**

1. Labour					
Plumber	0.25	Hrs	@	125.00	31.25
Labourer	0.25	Hrs	@	87.50	21.88
					53.13
Contractor's profit & overhead				20%	10.63
Total Labour rate					63.75
					63.75
2. Materials					
Glass shelf with brackets	1.00	No.	@	2500.00	2500.00
Contractor's profit & overhead				20%	500.00
Total Composite rate					3063.75
					3063.75

b) Shelf (Master/Sonex make)

1. Labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate Same as in item 23-16(a)		63.75	63.75
	2. Materials			
	Glass shelf Master/Sonex	1.00	No. @ 2000.00	2000.00
	Contractor's profit & overhead		20%	400.00
	Total Composite rate			2463.75
	Item No. 23-17			
	Providing and fixing white glazed vitreous China squatting type W.C. pan with integral treads similar to Orissa type.			
Each	a) Without trap			
	1. Labour			
	Plumber	2.00	Hrs @ 125.00	250.00
	Labourer	2.00	Hrs @ 87.50	175.00
				425.00
	Contractor's profit & overhead		20%	85.00
	Total Labour rate			510.00
	2. Materials			
	W.C. pan	1.00	No. @ 1595.00	1595.00
	Contractor's profit & overhead		20%	319.00
	Total Composite rate			2424.00
Each	b) With vitreous China trap			
	1. Labour			
	Total Labour rate Same as in item 23-17(a)		510.00	510.00
	2. Materials			
	W.C. pan	1.00	No. @ 1595.00	1595.00
	Vitreous China trap	1.00	No. @ 165.00	165.00
				1760.00
	Contractor's profit & overhead		20%	319.00
	Total Composite rate			2589.00
	Item No. 23-18			
	Providing and fixing approved quality fixtures			
Each	a) European type White glazed earthen ware W.C. pan.			
	1. Labour			
	Total Labour rate Same as in item 23-17(a)		510.00	510.00
	2. Material			
	W.C. Non-coupled 7HU white colour	1.00	No. @ 3300.00	3300.00
	Contractor's profit & overhead		20%	660.00
	Total Composite rate			4470.00
Each	b) Providing and fixing plastic flushing cistern of approved quality and colour.			
	1. Labour			
	Total Labour rate Same as in item 23-9(a)		255.00	255.00
	2. Material			
	Plastic flushing cistern	1.00	No. @ 792.00	792.00
	G.I. Brackets	1.00	Pair @ 360.00	360.00
	Copper connection	1.00	No. @ 200.00	200.00
				1352.00
	Contractor's profit & overhead		20%	270.40
	Total Composite rate			1877.40

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Each c) Wash basin 18" (450 mm), White colour

1. Labour					
Total Labour rate	Same as in item 23-9(a)			255.00	255.00
2. Material					
W.B. 18" (450 mm) white colour		1.00	No. @	1500.00	1500.00
Contractor's profit & overhead				20%	300.00
Total Composite rate					2055.00

Each d) Wash basin 24" (610 mm) ICL Futura make

1. Labour					
Total Labour rate	Same as in item 23-9(a)			255.00	255.00
2. Material					
W.B. 24" white colour ICL Futura 2041/60		1.00	No. @	2100.00	2100.00
Contractor's profit & overhead				20%	420.00
Total Composite rate					2775.00

Item No. 23-19

Providing and fixing ICL (Boch) or Karam Cera export quality glazed earthen ware cistern with lid and kit.

Each a) White

1. Labour					
Total Labour rate	Same as in item 23-9(a)			255.00	255.00
2. Material					
Cistern 4006 white colour		1.00	No. @	1500.00	1500.00
Cistern bolt kit		1.00	No. @	38.50	38.50
Screws				1%	15.39
					1553.89
Contractor's profit & overhead				20%	300.00
Total Composite rate					2108.89

Each b) Coloured

1. Labour					
Total Labour rate	Same as in item 23-9(a)			255.00	255.00
2. Material					
Cistern 4006 coloured		1.00	No. @	1750.00	1750.00
Cistern bolt kit		1.00	No. @	38.50	38.50
Screws				1%	17.89
					1806.39
Contractor's profit & overhead				20%	350.00
Total Composite rate					2411.39

Item No.23-20-1**Each Providing and fixing approved quality of Bacolite plastic seat with lid.**

1. Labour					
Total Labour rate	Same as in item 23-16(a)			63.75	63.75
2. Materials					
Seat cover		1.00	No. @	418.00	418.00
Contractor's profit & overhead				20%	83.60
Total Composite rate					565.35

Item No. 23-21-1

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Each	Providing and fixing glazed pottery/C.P. brass pull.		
	1. Labour		
	Total Labour rate	Same as in item 23-16(a)	63.75
			63.75
	2. Materials		
	C.P. brass chain with pull	1.00 No. @ 100.00	100.00
	Contractor's profit & overhead	20%	20.00
	Total Composite rate		183.75
			183.75
	Item No. 23- 22-1		
Each	Providing and fixing rubber connection for flush pipe with European W.C.		
	1. Labour		
	Total Labour rate	Same as in item 23-13(a)	51.00
			51.00
	2. Materials		
	Rubber connection pipe	1.00 No. @ 104.50	104.50
	Contractor's profit & overhead	20%	20.90
	Total Composite rate		176.40
			176.40
	Item No. 23- 23		
	Providing and fixing approved quality white glazed earthenware lavatory basin with 1/2" (15 mm) dia. single hole C.P. mixer tap, 2 way deluxe pillar tap, stop cocks, 6" C.I. or W.I. brackets built into walls, rubber plug, C.P. brass chain, C.P. brass waste, malleable iron or C.P. brass bottle trap with malleable iron or brass union and making requisite number of holes in walls, plinth and floor for pipe connection and making good with approved material.		
Each	a) Lavatory basin 22" x 16" (550 mm x 400 mm)		
	1. Labour		
	Total Labour rate	Same as in item 23-5(a)1	765.00
			765.00
	2. Materials		
	Lavatory basin	1.00 No. @ 4500.00	4500.00
	Other materials	Same as in item 23-5(a)1	7075.50
			11575.50
	Contractor's profit & overhead	20%	2315.10
	Total Composite rate		14655.60
			14655.60
Each	b) Lavatory basin 25" x 18" (625 mm x 450 mm)		
	1. Labour		
	Total Labour rate	Same as in item 23-5(a)1	765.00
			765.00
	2. Materials		
	Lavatory basin	1.00 No. @ 6100.00	6100.00
	Other materials	Same as in item 23-5(a)1	7075.50
			13175.50
	Contractor's profit & overhead	20%	2635.10
	Total Composite rate		16575.60
			16575.60
	Item No. 23- 24-1		
Each	Providing and fixing approved quality glazed fire clay sink 24" x 18" with 6" (150mm) size C.I. or W.I. brackets built in walls, 1.5" (40 mm) rubber plug and C.P. brass chain, C.P. brass waste, pillar tap 2 way deluxe, malleable iron or C.P. brass trap and unions and making requisite numbers of holes in walls, plinth and floor for pipe connections and making good with approved material.		
	1. Labour		
	Total Labour rate	Same as in item 23-8(a)	1020.00
			1020.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Materials			
	Sink glazed fire clay 24" x 18"	1.00	No. @ 2800.00	2800.00
	Other materials Same as in item 23-8(a)			2325.00
	Total			5125.00
	Contractor's profit & overhead		20%	1025.00
	Total Composite rate			7170.00
				7170.00
	Item No. 23- 25-1			
Each	Providing and fixing C.P. chain for sink and lavatory basin.			
	1. Labour			
	Total Labour rate Same as in item 23-13(a)			51.00
				51.00
	2. Materials			
	C.P. chain	1.00	No. @ 50.00	50.00
	Contractor's profit & overhead		20%	10.00
	Total Composite rate			111.00
				111.00
	Item No. 23- 26-1			
Each	Providing and fixing rubber plug for sink and lavatory basin.			
	1. Labour			
	Total Labour rate Same as in item 23-13(a)			51.00
				51.00
	2. Materials			
	Rubber plug	1.00	No. @ 16.50	16.50
	Contractor's profit & overhead		20%	3.30
	Total Composite rate			70.80
				70.80
	Item No. 23- 27-1			
Each	Providing and fixing glazed earthen ware foot rest.			
	1. Labour			
	Total Labour rate Same as in item 23-14			127.50
				127.50
	2. Materials			
	Foot rest, earthenware	1.00	No. @ 135.00	135.00
	Contractor's profit & overhead		20%	27.00
	Total Composite rate			289.50
				289.50
	Item No. 23-28			
Each	Providing and fixing C.P. bottle trap with union and waste pipe			
	a) 1.25" (30 mm) dia.			
	1. Labour			
	Total Labour rate Same as in item 23-9(a)			255.00
				255.00
	2. Material			
	C.P. bottle trap 1-1/4"	1.00	No. @ 1075.00	1075.00
	Contractor's profit & overhead		20%	215.00
	Total Composite rate			1545.00
				1545.00
Each	b) 1.5" (40 mm) dia.			
	1. Labour			
	Total Labour rate Same as in item 23-9(a)			255.00
				255.00
	2. Material			
	C.P. bottle trap 1-1/4"	1.00	No. @ 1600.00	1600.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	320.00	
	Total Composite rate		<u>2175.00</u>	2175.00
Item No. 23- 29				
Providing and fixing soap dish.				
Each a)	Chromium plated			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	Soap dish C.P.	1.00 No. @	720.00	720.00
	Contractor's profit & overhead	20%	144.00	
	Total Composite rate		<u>915.00</u>	915.00
Each b)	Glazed earthen ware			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	Soap dish earthenware	1.00 No. @	912.00	912.00
	Contractor's profit & overhead	20%	182.40	
	Total Composite rate		<u>1145.40</u>	1145.40
Item No. 23- 30				
Providing and fitting superior quality plastic accessories of approved make				
Each a)	Soap dish			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	Soap dish plastic	1.00 No. @	270.00	270.00
	Contractor's profit & overhead	20%	54.00	
	Total Composite rate		<u>375.00</u>	375.00
Each b)	Toilet paper holder			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	Toilet paper holder plastic	1.00 No. @	250.00	250.00
	Contractor's profit & overhead	20%	50.00	
	Total Composite rate		<u>351.00</u>	351.00
Each c)	Towel rod			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	Towel rail plastic	1.00 No. @	200.00	200.00
	Contractor's profit & overhead	20%	40.00	
	Total Composite rate		<u>291.00</u>	291.00
Each d)	Shelf 24" x 5" with bracket and railing.			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Materials			
	Shelf, plastic with bracket	1.00	No. @ 160.00	160.00
	Contractor's profit & overhead		20%	32.00
	Total Composite rate			<u>243.00</u>
				243.00
	Item No. 23- 31			
	Providing and fixing C.P. pillar-cock of superior quality of approved make.			
Each	a) 1/2" (12 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)		51.00
				51.00
	2. Materials			
	C.P. pillar cock	1.00	No. @ 875.00	875.00
	Contractor's profit & overhead		20%	175.00
	Total Composite rate			<u>1101.00</u>
				1101.00
Each	b) 3/4" (20 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)		51.00
				51.00
	2. Materials			
	C.P. pillar cock	1.00	No. @ 1000.00	1000.00
	Contractor's profit & overhead		20%	200.00
	Total Composite rate			<u>1251.00</u>
				1251.00
	Item No. 23- 32			
	Providing and fixing C.P. stop-cock of superior quality of approved make.			
Each	a) 1/2" (12 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)		51.00
				51.00
	2. Materials			
	C.P. stop cock	0.43	No. @ 910.00	391.30
	Contractor's profit & overhead		20%	78.26
	Total Composite rate			<u>520.56</u>
				520.55
Each	b) 3/4" (20 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)		51.00
				51.00
	2. Materials			
	C.P. stop cock	1.00	No. @ 1170.00	1170.00
	Contractor's profit & overhead		20%	234.00
	Total Composite rate			<u>1455.00</u>
				1455.00
	Item No. 23- 33			
	Providing and fixing underground stop-cock with superior quality C.P. cover of approved make.			
Each	a) 1/2" (12 mm) size			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)		51.00
				51.00
	2. Materials			
	C.P. stop cock	1.00	No. @ 910.00	910.00
	C.P. cover	1.00	No. @ 150.00	150.00
	Total Composite rate			<u>1060.00</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	182.00	
	Total Composite rate		<u>1293.00</u>	1293.00
Each b)	3/4" (20 mm) size			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	C.P. stop cock	1.00 No. @	1170.00	1170.00
	C.P. cover	1.00 No. @	150.00	150.00
			<u>1320.00</u>	
	Contractor's profit & overhead	20%	234.00	
	Total Composite rate		<u>1605.00</u>	1605.00
	Item No. 23- 34			
	Providing and fixing superior quality C.P. bib cock of approved make.			
Each a)	1/2" (12 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	C.P. bib cock 1/2"	1.00 No. @	900.00	900.00
	Contractor's profit & overhead	20%	180.00	
	Total Composite rate		<u>1131.00</u>	1131.00
Each b)	3/4" (20 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	C.P. bib cock 3/4"	1.00 No. @	1100.00	1100.00
	Contractor's profit & overhead	20%	220.00	
	Total Composite rate		<u>1371.00</u>	1371.00
	Item No. 23- 35-1			
Each	Providing and fixing superior quality 1/2" size C.P. tee stop cock of approved make.			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	C.P. tee stop cock 1/2"	0.50 No. @	1235.00	611.33
	Contractor's profit & overhead	20%	122.27	
	Total Composite rate		<u>784.59</u>	784.60
	Item No. 23- 36			
	Providing and fixing C.P. brass shower			
Each a)	1/2" (12 mm) dia inlet and 6" (150 mm) dia. detachable lid			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	C.P. brass shower 1/2" with 6" dia. lid	1.00 No. @	630.00	630.00
	Contractor's profit & overhead	20%	126.00	
	Total Composite rate		<u>807.00</u>	807.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each	b) 1/2" (12 mm) dia inlet and 4" (100 mm) dia. detachable lid			
	1. Labour			
	Total Labour rate	Same as in item 23-13(a)	51.00	51.00
	2. Materials			
	C.P. brass shower 1/2" with 4" dia. lid	1.00	No. @ 510.00	510.00
	Contractor's profit & overhead		20%	102.00
	Total Composite rate			663.00
	Item No. 23- 37-1			
Each	Providing and fixing 1/2" (12 mm) single hole superior quality C.P. mixer of approved make for wash hand basin, sink or shower.			
	1. Labour			
	Total Labour rate	Same as in item 23-9(a)	255.00	255.00
	2. Material			
	C.P. mixer single hole deluxe	1.00	No. @ 3000.00	3000.00
	Contractor's profit & overhead		20%	600.00
	Total Composite rate			3855.00
	Item No. 23- 38-1			
Each	Providing and fixing 1" (25 mm) superior quality C.P. flushing valve of approved make for wash hand basin, sink or shower.			
	1. Labour			
	Total Labour rate	Same as in item 23-9(a)	255.00	255.00
	2. Material			
	C.P. flushing valve 1"	1.00	No. @ 3125.00	3125.00
	Contractor's profit & overhead		20%	625.00
	Total Composite rate			4005.00
	Item No. 23- 39			
	Providing and fixing superior quality gun-metal peet/gate valve (Class150) of approved make.			
	a) Screwed ends			
Each	i) 1/2" (12 mm) dia.			
	1. Labour			
	Plumber	0.50	Hrs @ 125.00	62.50
	Labourer	0.50	Hrs @ 87.50	43.75
				106.25
	Contractor's profit & overhead		20%	21.25
	Total Labour rate			127.50
	2. Materials			
	Gate valve gun metal 1/2" dia.	1.00	No. @ 115.00	115.00
	Contractor's profit & overhead		20%	23.00
	Total Composite rate			265.50
Each	ii) 3/4" (20 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-39(a)1	127.50	127.50
	2. Materials			
	Gate valve gun metal 3/4" dia.	1.00	No. @ 170.00	170.00
	Contractor's profit & overhead		20%	34.00
	Total Composite rate			331.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each iii) 1" (25 mm) dia.				
1. Labour				
Plumber	0.75 Hrs @	125.00	93.75	
Labourer	0.75 Hrs @	87.50	65.63	
			<u>159.38</u>	
Contractor's profit & overhead		20%	31.88	
Total Labour rate			<u>191.25</u>	191.25
2. Materials				
Gate valve gun metal 1" dia.	1.00 No. @	240.00	240.00	
Contractor's profit & overhead		20%	48.00	
Total Composite rate			<u>479.25</u>	479.25
Each iv) 1.25" (30 mm) dia.				
1. Labour				
Total Labour rate	Same as in item 23-39(a)3		191.25	191.25
2. Materials				
Gate valve gun metal 1-1/4" dia.	1.00 No. @	340.00	340.00	
Contractor's profit & overhead		20%	68.00	
Total Composite rate			<u>599.25</u>	599.25
Each v) 1.5" (40 mm) dia.				
1. Labour				
Plumber	1.00 Hrs @	125.00	125.00	
Labourer	1.00 Hrs @	87.50	87.50	
			<u>212.50</u>	
Contractor's profit & overhead		20%	42.50	
Total Labour rate			<u>255.00</u>	255.00
2. Materials				
Gate valve gun metal 1-1/2" dia.	0.82 No. @	475.00	389.50	
Contractor's profit & overhead		20%	77.90	
Total Composite rate			<u>722.40</u>	722.40
Each vi) 2" (50 mm) dia.				
1. Labour				
Total Labour rate	Same as in item 23-39(a)5		255.00	255.00
2. Materials				
Gate valve gun metal 2" dia.	1.00 No. @	670.00	670.00	
Contractor's profit & overhead		20%	134.00	
Total Composite rate			<u>1059.00</u>	1059.00
Each vii) 2.5" (65 mm) dia.				
1. Labour				
Plumber	3.50 Hrs @	125.00	437.50	
Labourer	3.50 Hrs @	87.50	306.25	
			<u>743.75</u>	
Contractor's profit & overhead		20%	148.75	
Total Labour rate			<u>892.50</u>	892.50
2. Materials				
Gate valve gun metal 2-1/2" dia.	1.00 No. @	1075.00	1075.00	
Contractor's profit & overhead		20%	215.00	
Total Composite rate			<u>2182.50</u>	2182.50
Each viii) 3" (75 mm) dia.				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	1. Labour			
	Total Labour rate Same as in item 23-39(a)7		892.50	892.50
	2. Materials			
	Gate valve gun metal 3" dia.	1.00	No. @ 1600.00	1600.00
	Contractor's profit & overhead		20%	320.00
	Total Composite rate			2812.50
Each	ix) 4" (100 mm) dia.			
	1. Labour			
	Plumber	5.00	Hrs @ 125.00	625.00
	Labourer	5.00	Hrs @ 87.50	437.50
				<u>1062.50</u>
	Contractor's profit & overhead		20%	212.50
	Total Labour rate			1275.00
	2. Materials			
	Gate valve gun metal 4" dia.	1.00	No. @ 1900.00	1900.00
	Contractor's profit & overhead		20%	380.00
	Total Composite rate			3555.00
Each	x) 6" (150 mm) dia.			
	1. Labour			
	Total Labour rate Same as in item 23-39(a)9		1275.00	1275.00
	2. Materials			
	Gate valve gun metal 6" dia.	1.00	No. @ 2300.00	2300.00
	Contractor's profit & overhead		20%	460.00
	Total Composite rate			4035.00
	b) Flanged ends			
Each	i) 1/2" (12 mm) dia.			
	1. Labour			
	Plumber	1.50	Hrs @ 125.00	187.50
	Labourer	1.50	Hrs @ 87.50	131.25
				<u>318.75</u>
	Contractor's profit & overhead		20%	63.75
	Total Labour rate			382.50
	2. Materials			
	Gate valve flanged end 1/2" class 150	1.00	No. @ 115.00	115.00
	Contractor's profit & overhead		20%	23.00
	Total Composite rate			520.50
Each	ii) 3/4" (20 mm) dia.			
	1. Labour			
	Total Labour rate Same as in item 23-39(b)1		382.50	382.50
	2. Materials			
	Gate value flanged end 3/4" class 150	1.00	No. @ 168.00	168.00
	Contractor's profit & overhead		20%	33.60
	Total Composite rate			584.10
Each	iii) 1" (25 mm) dia.			
	1. Labour			
	Plumber	3.00	Hrs @ 125.00	375.00
	Labourer	3.00	Hrs @ 87.50	262.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	637.50	
	Total Labour rate		127.50	
			<u>765.00</u>	765.00
	2. Materials			
	Gate value flanged end 1" class 150	1.00 No. @	240.00	240.00
	Contractor's profit & overhead	20%	48.00	
	Total Composite rate		<u>1053.00</u>	1053.00
Each iv)	1.25" (30 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-39(b)3	765.00	765.00
	2. Materials			
	Gate value flanged end 1-1/4" class 150	1.00 No. @	340.00	340.00
	Contractor's profit & overhead	20%	68.00	
	Total Composite rate		<u>1173.00</u>	1173.00
Each v)	1.5" (40 mm) dia.			
	1. Labour			
	Plumber	4.00 Hrs @	125.00	500.00
	Labourer	4.00 Hrs @	87.50	350.00
			<u>850.00</u>	
	Contractor's profit & overhead	20%	170.00	
	Total Labour rate		<u>1020.00</u>	1020.00
	2. Materials			
	Gate value flanged end 1-1/2" class 150	1.00 No. @	475.00	475.00
	Contractor's profit & overhead	20%	95.00	
	Total Composite rate		<u>1590.00</u>	1590.00
Each vi)	2" (50 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-39(b)5	1020.00	1020.00
	2. Materials			
	Gate value flanged end 2" class 150	1.00 No. @	670.00	670.00
	Contractor's profit & overhead	20%	134.00	
	Total Composite rate		<u>1824.00</u>	1824.00
Each vii)	2.5" (65 mm) dia.			
	1. Labour			
	Plumber	8.00 Hrs @	125.00	1000.00
	Labourer	8.00 Hrs @	87.50	700.00
			<u>1700.00</u>	
	Contractor's profit & overhead	20%	340.00	
	Total Labour rate		<u>2040.00</u>	2040.00
	2. Materials			
	Gate value flanged end 2-1/2" class 150	1.00 No. @	1075.00	1075.00
	Contractor's profit & overhead	20%	215.00	
	Total Composite rate		<u>3330.00</u>	3330.00
Each viii)	3" (75 mm) dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-39(b)7	2040.00	2040.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Materials				
	Gate valve flanged end 3" class 150	1.00	No. @	1600.00
	Contractor's profit & overhead			20%
	Total Composite rate			3960.00
				3960.00
Each	ix) 4" (100 mm) dia.			
1. Labour				
	Plumber	12.00	Hrs @	125.00
	Labourer	12.00	Hrs @	87.50
				2550.00
	Contractor's profit & overhead			20%
	Total Labour rate			3060.00
				3060.00
2. Materials				
	Gate valve flanged end 4" class 150	1.00	No. @	1875.00
	Contractor's profit & overhead			20%
	Total Composite rate			5310.00
				5310.00
Each	x) 6" (150 mm) dia.			
1. Labour				
	Total Labour rate			Same as in item 23-39(b)9
				3060.00
				3060.00
2. Materials				
	Gate valve flanged end 6" class 150	1.00	No. @	2415.00
	Contractor's profit & overhead			20%
	Total Composite rate			5958.00
				5958.00
Item No. 23- 40				
Each	Providing and fitting superior quality C.P. or brass oxidised 1/2" (12mm) swan neck pillar cock (tap) of approved make.			
	a) Single way			
1. Labour				
	Total Labour rate			Same as in item 23-39(a)1
				85.00
				85.00
2. Materials				
	C.P. swan neck cock single way	1.00	No. @	1690.00
	Contractor's profit & overhead			20%
	Total Composite rate			2113.00
				2113.00
	b) Double way			
1. Labour				
	Total Labour rate			Same as in item 23-39(a)3
				127.50
				127.50
2. Materials				
	C.P. swan neck cock double way	1.00	No. @	1950.00
	Contractor's profit & overhead			20%
	Total Composite rate			2467.50
				2467.50
Item No. 23- 41				
Providing and fixing brass bib cock/ stop cock of approved make.				
Each	a) 1/2" (12 mm) dia.			
1. Labour				
	Plumber	0.25	Hrs @	125.00
	Labourer	0.25	Hrs @	87.50
				53.13
	Contractor's profit & overhead			20%
				10.63

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		63.75	63.75
	2. Materials			
	Brass bib/stop cock 1/2" dia.	1.00	No. @ 100.00	100.00
	Contractor's profit & overhead		20%	20.00
	Total Composite rate		183.75	183.75
Each	b) 3/4" (20 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-41(a)	63.75
	2. Materials			
	Brass bib/stop cock 3/4" dia.	1.00	No. @ 120.00	120.00
	Contractor's profit & overhead		20%	24.00
	Total Composite rate		207.75	207.75
Each	c) 1" (25 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-41(a)	63.75
	2. Materials			
	Brass bib/stop cock 1" dia.	1.00	No. @ 250.00	250.00
	Contractor's profit & overhead		20%	50.00
	Total Composite rate		363.75	363.75
	Item No. 23- 42			
	Providing and fixing 'P' trap including concrete chamber and C.I. grating.			
Each	a) Cast iron 4" (100 mm) size			
	1. Labour			
	Plumber	1.00	Hrs @ 125.00	125.00
	Labourer	1.00	Hrs @ 87.50	87.50
				212.50
	Contractor's profit & overhead		20%	42.50
	Total Labour rate		255.00	255.00
	2. Materials			
	C.I. P - trap 4"	1.00	No. @ 1000.00	1000.00
	Other materials			
	Grating G.I.	1.00	No. @ 250.00	250.00
	Concrete chamber		0.25	312.50
				562.50
	Contractor's profit & overhead		20%	312.50
	Total Composite rate		2130.00	2130.00
Each	b) Glazed 4" (100 mm) size			
	1. Labour			
	Total Labour rate		Same as in item 23-41(a)	255.00
	2. Materials			
	P. trap 4", glazed	1.00	No. @ 160.00	160.00
	Other materials		Same as in item 23-41(a)	562.50
				722.50
	Contractor's profit & overhead		20%	144.50
	Total Composite rate		1122.00	1122.00
	Item No. 23- 43-1			
Each	Providing and fixing C.I. gully trap 6"x6"x4" including concrete embedment and cost of G.I. grating 6"x6" and masonry chamber 12"x12"			

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

1. Labour			
Total Labour rate	Same as in item 23-41(a)	255.00	255.00

2. Materials			
C.P. gully trap 6" x 6" x 4"	1.00 No. @	600.00	600.00
Masonry chamber		0.15	90.00
Other materials	Same as in item 23-41(a)		562.50
			<u>1252.50</u>
Contractor's profit & overhead		20%	250.50
Total Composite rate			<u>1758.00</u>

Item No. 23- 44

Providing, laying, cutting, jointing, testing and disinfecting cast iron soil pipe with spigot, socket chaulked lead or comet joint or flanged joints/tyton joints including cost of jointing material such as lead, comet and yarn.

R.M. a) 2" (50 mm) dia.

1. Labour			
Total Labour rate	Same as in item 27-22(a)1	72.00	72.00

2. Materials			
C.I. Pipe 50 mm dia.	1.00 R.M. @	1350.00	1350.00
Jointing material		2%	27.00
			<u>1377.00</u>
Contractor's profit & overhead		20%	275.40
Total Composite rate			<u>1724.40</u>

R.M. b) 3" (75 mm) dia.

1. Labour			
Total Labour rate	Same as in item 27-22(a)1	72.00	72.00

2. Materials			
C.I. Pipe 75 mm dia.	1.00 R.M. @	2025.00	2025.00
Jointing material		2%	40.50
			<u>2065.50</u>
Contractor's profit & overhead		20%	413.10
Total Composite rate			<u>2550.60</u>

R.M. c) 4" (100 mm) dia.

1. Labour			
Total Labour rate	Same as in item 27-22(a)1	72.00	72.00

2. Materials			
C.I. pipe 100 mm dia.	1.00 R.M. @	2700.00	2700.00
Jointing material		2%	54.00
			<u>2754.00</u>
Contractor's profit & overhead		20%	550.80
Total Composite rate			<u>3376.80</u>

Item No. 23- 45

Providing and laying Non Asbestos Cement Fibre building and sanitary pipe with cement chaulked or comet joint including cost of sockets, bends and specials.

R.M. a) 2.5" (65 mm) inner dia.

1. Labour			
Pipe layer	0.50 Hrs @	125.00	62.50
Labourer	1.00 Hrs @	87.50	87.50
			<u>150.00</u>
Contractor's profit & overhead		20%	30.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		180.00	180.00
	2. Material			
	Non Asbestos Cement Fibre pipe 65 mm dia.	1.00	R.M. @ 310.00	310.00
	Jointing material		2%	6.20
				<u>316.20</u>
	Contractor's profit & overhead		20%	63.24
	Total Composite rate			<u>559.44</u>
				559.45
	b) 3" (75 mm) inner dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-45(a)		180.00
				180.00
	2. Material			
	Non Asbestos Cement Fibre pipe 80 mm dia.	1.00	R.M. @ 501.84	501.84
	Jointing material		2%	10.04
				<u>511.88</u>
	Contractor's profit & overhead		20%	102.38
	Total Composite rate			<u>794.25</u>
				794.25
R.M.	c) 4" (100 mm) inner dia.			
	1. Labour			
	Pipe layer	1.00	Hrs @ 125.00	125.00
	Labourer	2.00	Hrs @ 87.50	175.00
				<u>300.00</u>
	Contractor's profit & overhead		20%	60.00
	Total Labour rate			<u>360.00</u>
				360.00
	2. Material			
	Non Asbestos Cement Fibre pipe 100 mm dia	1.00	R.M. @ 689.00	689.00
	Jointing material		2%	13.78
				<u>702.78</u>
	Contractor's profit & overhead		20%	140.56
	Total Composite rate			<u>1203.34</u>
				1203.35
	d) 6" (150 mm) inner dia.			
	1. Labour			
	Total Labour rate	Same as in item 23-45(c)		360.00
				360.00
	2. Material			
	Non Asbestos Cement Fibre pipe 150 mm dia	1.00	R.M. @ 1082.00	1082.00
	Jointing material		2%	21.64
				<u>1103.64</u>
	Contractor's profit & overhead		20%	220.73
	Total Composite rate			<u>1684.37</u>
				1684.35
	Item No. 23- 46			
	Providing and fixing C.I. specials such as bend, tees, collars, cross, reducers, tail pieces, flanged spigots, cap, flanged socket, taper, angle bends and plugs including turning threading, facing and fitting for C.I. pipe line.			
	a) Cast iron S.S. specials with spigot and socket joint			
Kg.	i) 3" to 6" (75 mm to 150 mm) dia.			
	Total Labour rate	Same as in item 27-27(a)1		72.00
				72.00
	Total Composite rate	Same as in item 27-27(a)1		195.75
				195.75
Kg.	ii) 8" to 12" (200 mm to 300 mm) inner dia.			

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate Same as in item 27-27(a)2	54.00	54.00
	Total Composite rate Same as in item 27-27(a)2	195.75	195.75
Kg.	iii) 15" to 18" (375 mm to 450 mm) inner dia.		
	Total Labour rate Same as in item 27-27(a)3	36.00	36.00
	Total Composite rate Same as in item 27-27(a)3	159.75	159.75
	b) Cast iron flanged specials with flanged joints		
Kg.	i) 3" to 6" (75 mm to 150 mm) dia.		
	Total Labour rate Same as in item 27-27(a)3	36.00	36.00
	Total Composite rate Same as in item 27-27(b)1	159.75	159.75
Kg.	ii) 8" to 12" (200 mm to 300 mm) inner dia.		
	Total Labour rate Same as in item 27-27(b)2	27.75	27.75
	Total Composite rate Same as in item 27-27(b)2	151.50	151.50
Kg.	iii) 15" to 18" (375 mm to 450 mm) inner dia.		
	Total Labour rate Same as in item 27-27(b)3	18.00	18.00
	Total Composite rate Same as in item 27-27(b)3	141.75	141.75
	c) Cast iron specials with tyton joints		
Kg.	i) 3" to 6" (75 mm to 150 mm) dia.		
	Total Labour rate Same as in item 27-27(b)3	18.00	18.00
	Total Composite rate Same as in item 27-27(c)1	164.25	164.25
Kg.	ii) 8" to 12" (200 mm to 300 mm) inner dia.		
	Total Labour rate Same as in item 27-27(b)3	18.00	18.00
	Total Composite rate Same as in item 27-27(c)2	186.75	186.75
Kg.	iii) 15" to 18" (375 mm to 450 mm) inner dia.		
	Total Labour rate Same as in item 27-27(b)3	18.00	18.00
	Total Composite rate Same as in item 27-27(c)3	220.50	220.50
	Item No.23- 47		
	Supplying and fitting C.I. manhole cover with frame weighing not less than 10.25 lbs/sq.ft (50 kg per sq.m.).		
Each	a) 12" (300 mm.) dia.		
	1. Labour		
	Plumber	1.00 Hrs @	125.00
	Labourer	1.00 Hrs @	87.50
			<u>212.50</u>
	Contractor's profit & overhead	20%	42.50
	Total Labour rate		<u>255.00</u>
			255.00
	2. Materials		
	C.I. Manhole cover	4.35 Kg. @	93.75
	Contractor's profit & overhead	20%	81.56
	Total Composite rate		<u>744.38</u>
			744.40

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each b) 18" (450 mm.) dia.				
	1. Labour			
	Total Labour rate	Same as in item 23-47(a)	255.00	255.00
	2. Materials			
	C.I. Manhole cover	7.37 Kg. @	93.75	690.94
	Contractor's profit & overhead		20%	138.19
	Total Composite rate		1084.13	1084.15
Each c) 24" (600 mm.) dia.				
	1. Labour			
	Plumber	0.75 Hrs @	125.00	93.75
	Labourer	0.75 Hrs @	87.50	65.63
				159.38
	Contractor's profit & overhead		20%	31.88
	Total Labour rate		191.25	191.25
	2. Materials			
	C.I. Manhole cover	14.14 Kg. @	93.75	1325.63
	Contractor's profit & overhead		20%	265.13
	Total Composite rate		1782.00	1782.00
Each d) 12" (300 mm.) square				
	1. Labour			
	Total Labour rate	Same as in item 23-47(a)	255.00	255.00
	2. Materials			
	C.I. Manhole cover	4.50 Kg. @	93.75	421.88
	Contractor's profit & overhead		20%	84.38
	Total Composite rate		761.25	761.25
Each e) 18" (450 mm.) square				
	1. Labour			
	Total Labour rate	Same as in item 23-47(d)	255.00	255.00
	2. Materials			
	C.I. Manhole cover	10.13 Kg. @	93.75	949.69
	Contractor's profit & overhead		20%	189.94
	Total Composite rate		1394.63	1394.65
f) 24" (600 mm.) square				
	1. Labour			
	Plumber	1.50 Hrs @	125.00	187.50
	Labourer	1.50 Hrs @	87.50	131.25
				318.75
	Contractor's profit & overhead		20%	63.75
	Total Labour rate	Same as in item 23-47(d)	382.50	382.50
	2. Materials			
	C.I. Manhole cover	18.00 Kg. @	93.75	1687.50
	Contractor's profit & overhead		20%	337.50
	Total Composite rate		2407.50	2407.50
Item No. 23- 48				
Providing and fitting C.P. or oxidised gas cock 1/4" (6 mm) dia.				
Each a) Single way				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	1. Labour			
	Total Labour rate Same as in item 23-47(c)		79.69	79.70
	2. Materials			
	C.P. gas cock 1/4" dia. Single way	1.00	No. @ 362.50	362.50
	Contractor's profit & overhead		20%	72.50
	Total Composite rate		514.69	514.70
Each	b) Double way			
	1. Labour			
	Total Labour rate Same as in item 23-47(c)		119.53	119.55
	2. Materials			
	C.P. gas cock 1/4" dia. Double way	1.00	No. @ 362.50	362.50
	Contractor's profit & overhead		20%	72.50
	Total Composite rate		554.53	554.55
Each	c) Three way			
	1. Labour			
	Total Labour rate Same as in item 23-47(c)		159.38	159.40
	2. Materials			
	C.P. gas cock 1/4" dia. Three way	1.00	No. @ 437.50	437.50
	Contractor's profit & overhead		20%	87.50
	Total Composite rate		684.38	684.40
	Item No. 23- 49-1			
Each	Providing and fitting nipple or bush 1/4" x 3/8" (6mm - 10mm) inner dia.			
	1. Labour			
	Total Labour rate Same as in item 23-13(a)		51.00	51.00
	2. Materials			
	Nipple	1.00	No. @ 30.00	30.00
	Contractor's profit & overhead		20%	6.00
	Total Composite rate		87.00	87.00
	Item No. 23- 50			
	Providing and fitting union/socket			
Each	a) 1/2" (12 mm) dia.			
	1. Labour			
	Total Labour rate Same as in item 23-13(a)		51.00	51.00
	2. Materials			
	Socket /union 1/2" dia.	1.00	No. @ 564.00	564.00
	Contractor's profit & overhead		20%	112.80
	Total Composite rate		727.80	727.80
Each	b) 3/4" (20 mm) dia.			
	1. Labour			
	Total Labour rate Same as in item 23-13(a)		51.00	51.00
	2. Materials			
	Socket /union 3/4" dia.	1.00	No. @ 696.00	696.00
	Contractor's profit & overhead		20%	139.20
	Total Composite rate		886.20	886.20
Each	c) 1" (25 mm) dia.			
	1. Labour			

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate Same as in item 23-13(a)	51.00	51.00
	2. Materials		
	Socket /union 1" dia. 1.00 No. @ 864.00	864.00	
	Contractor's profit & overhead 20%	172.80	
	Total Composite rate	1087.80	1087.80
	Item No. 23- 51		
	Providing and fixing brass gas cock.		
Each	a) 1/2" (12 mm) dia.		
	1. Labour		
	Total Labour rate Same as in item 23-13(a)	51.00	51.00
	2. Materials		
	Socket /union 1/2" dia. 1.00 No. @ 564.00	564.00	
	Contractor's profit & overhead 20%	112.80	
	Total Composite rate	727.80	727.80
Each	b) 3/4" (20 mm) dia.		
	1. Labour		
	Total Labour rate Same as in item 23-13(a)	51.00	51.00
	2. Materials		
	Socket /union 3/4" dia. 1.00 No. @ 696.00	696.00	
	Contractor's profit & overhead 20%	139.20	
	Total Composite rate	886.20	886.20
	Item No. 23-52		
	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe ILL make or equivalent gas line including the cost of jointing material.		
	a) Light duty		
R.M.	i) 1/2" (15 mm) inner dia.		
	Total Labour rate Same as in item 27-23(a)1	102.00	102.00
	Total Composite rate Same as in item 27-23(a)1	604.35	604.35
R.M.	ii) 3/4" (20 mm) inner dia.		
	Total Labour rate Same as in item 27-23(a)1	102.00	102.00
	Total Composite rate Same as in item 27-23(a)2	770.10	770.10
R.M.	iii) 1" (25 mm) inner dia.		
	Total Labour rate Same as in item 27-23(a)3	115.50	115.50
	Total Composite rate Same as in item 27-23(a)3	1076.85	1076.85
R.M.	iv) 1.25" (30 mm) inner dia.		
	Total Labour rate Same as in item 27-23(a)3	115.50	115.50
	Total Composite rate Same as in item 27-23(a)4	1451.70	1451.70
R.M.	v) 1.5" (40 mm) inner dia.		
	Total Labour rate Same as in item 27-23(a)5	131.25	131.25
	Total Composite rate Same as in item 27-23(a)5	1676.55	1676.55

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
R.M. vi) 2" (50 mm) inner dia.			
	Total Labour rate Same as in item 27-23(a)5	131.25	131.25
	Total Composite rate Same as in item 27-23(a)6	2265.60	2265.60
Item No. 23- 53			
Providing and fixing superior quality C.P. check valve of approved make for water supply or gas lines.			
Each a) 1/2" (12 mm) dia.			
	1. Labour		
	Total Labour rate Same as in item 23-41(a)	63.75	63.75
	2. Materials		
	C.P. check valve 15 mm dia 1.00 No. @ 1600.00	1600.00	
	Contractor's profit & overhead 20%	320.00	
	Total Composite rate	<u>1983.75</u>	1983.75
Each b) 3/4" (20 mm) dia.			
	1. Labour		
	Total Labour rate Same as in item 23-41(a)	63.75	63.75
	2. Materials		
	C.P. check valve 20 mm dia 1.00 No. @ 2100.00	2100.00	
	Contractor's profit & overhead 20%	420.00	
	Total Composite rate	<u>2583.75</u>	2583.75
Each c) 1" (25 mm) dia.			
	1. Labour		
	Total Labour rate Same as in item 23-39(a)1	127.50	127.50
	2. Materials		
	C.P. check valve 25 mm dia 1.00 No. @ 2400.00	2400.00	
	Contractor's profit & overhead 20%	480.00	
	Total Composite rate	<u>3007.50</u>	3007.50
Each d) 1.25" (30 mm) dia.			
	1. Labour		
	Total Labour rate Same as in item 23-39(a)3	191.25	191.25
	2. Materials		
	C.P. check valve 30 mm dia 1.00 No. @ 3500.00	3500.00	
	Contractor's profit & overhead 20%	700.00	
	Total Composite rate	<u>4391.25</u>	4391.25
Each e) 1.5" (40 mm) dia.			
	1. Labour		
	Total Labour rate Same as in item 23-42(a)	255.00	255.00
	2. Materials		
	C.P. check valve 40 mm dia 1.00 No. @ 4600.00	4600.00	
	Contractor's profit & overhead 20%	920.00	
	Total Composite rate	<u>5775.00</u>	5775.00
Each f) 2" (50 mm) dia.			
	1. Labour		
	Total Labour rate Same as in item 23-45(c)	360.00	360.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Materials			
	C.P. check valve 50 mm dia	1.00	No. @ 7000.00	7000.00
	Contractor's profit & overhead		20%	1400.00
	Total Composite rate			<u>8760.00</u>
				8760.00
	Item No. 23- 54			
	Providing and fixing C.P. waste coupling.			
Each	a) 1.25" (30 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	51.00
				51.00
	2. Materials			
	C.P. waste coupling 30 mm	0.81	No. @ 390.00	315.90
	Contractor's profit & overhead		20%	63.18
	Total Composite rate			<u>430.08</u>
				430.10
Each	b) 1.5" (40 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	51.00
				51.00
	2. Materials			
	C.P. waste coupling 40 mm	1.00	No. @ 455.00	455.00
	Contractor's profit & overhead		20%	91.00
	Total Composite rate			<u>597.00</u>
				597.00
	Item No. 23- 55			
	Providing and fixing C.P chain with rubber plug.			
Each	a) 1.25" (30 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	2.13
				2.15
	2. Materials			
	C.P. chain with rubber plug	1.00	No. @ 110.00	110.00
	Contractor's profit & overhead		20%	22.00
	Total Composite rate			<u>134.13</u>
				134.15
Each	b) 1.5" (40 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	2.13
				2.15
	2. Materials			
	C.P. chain with rubber plug	1.00	No. @ 150.00	150.00
	Contractor's profit & overhead		20%	30.00
	Total Composite rate			<u>182.13</u>
				182.15
	Item No. 23- 56			
	Providing and fixing P.V.C. waste pipe			
Each	a) 1.25" (30 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	2.13
				2.15
	2. Materials			
	U-PVC waste pipe 30 mm	1.00	No. @ 175.25	175.25
	Contractor's profit & overhead		20%	35.05
	Total Composite rate			<u>212.43</u>
				212.45
Each	b) 1.5" (40 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	2.13
				2.15

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	2. Materials			
	U-PVC waste pipe 40 mm	1.00	No. @ 227.23	227.23
	Contractor's profit & overhead		20%	45.45
	Total Composite rate			<u>274.80</u>
				274.80
	Item No. 23- 57			
	Providing and fixing P.V.C. waste flushing bend			
Each	a) 1.25" (30 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	25.50
				25.50
	2. Materials			
	U-PVC flushing bend 30 mm dia.	1.00	No. @ 71.30	71.30
	Contractor's profit & overhead		20%	14.26
	Total Composite rate			<u>111.06</u>
				111.05
Each	b) 1.5" (40 mm) dia.			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	25.50
				25.50
	2. Materials			
	U-PVC flushing bend 40 mm dia.	1.00	No. @ 105.95	105.95
	Contractor's profit & overhead		20%	21.19
	Total Composite rate			<u>152.64</u>
				152.65
Each	Item No.23- 58-1			
	Providing and fixing angle iron brackets for wash hand basin, cistern and sinks.			
	1. Labour			
	Total Labour rate		Same as in item 23-41(a)	63.75
				63.75
	2. Materials			
	Angle iron bracket	1.00	pair @ 150.00	150.00
	Contractor's profit & overhead		20%	30.00
	Total Composite rate			<u>243.75</u>
				243.75
	Item No. 23-59			
	Providing and fixing 1/2" (12 mm) dia. connection pipe including check nuts.			
Each	a) Plastic rubber connection pipe			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	51.00
				51.00
	2. Materials			
	Rubber connection pipe	1.00	No. @ 104.50	104.50
	Contractor's profit & overhead		20%	20.90
	Total Composite rate			<u>125.40</u>
				125.40
Each	b) Copper connection pipe			
	1. Labour			
	Total Labour rate		Same as in item 23-13(a)	44.35
				44.35
	2. Materials			
	Copper connection	1.00	No. @ 200.00	200.00
	Contractor's profit & overhead		20%	40.00
	Total Composite rate			<u>240.00</u>
				240.00
	Item No. 23- 60			

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Providing and fixing brass ball valve with unsoldered copper ball.			
Each a) 1/2" (12 mm) dia.			
1. Labour			
Total Labour rate	Same as in item 23-13(a)	44.35	44.35
2. Materials			
Brass ball valve 15 mm	1.00 No. @	115.00	115.00
Contractor's profit & overhead		20%	23.00
Total Composite rate		<u>138.00</u>	138.00
Each b) 3/4" (20 mm) dia.			
1. Labour			
Total Labour rate	Same as in item 23- 41(a)	43.97	43.95
2. Materials			
Brass ball valve 20 mm	1.00 No. @	160.00	160.00
Contractor's profit & overhead		20%	32.00
Total Composite rate		<u>192.00</u>	192.00
Each c) 1" (25 mm) dia.			
1. Labour			
Total Labour rate	Same as in item 23- 39(a) 1	106.25	106.25
2. Materials			
Brass ball valve 25 mm	1.00 No. @	195.00	195.00
Contractor's profit & overhead		20%	39.00
Total Composite rate		<u>234.00</u>	234.00
Each d) 1.25" (30 mm) dia.			
1. Labour			
Total Labour rate	Same as in item 23-39(a)3	159.38	159.40
2. Materials			
Brass ball valve 30 mm	1.00 No. @	325.00	325.00
Contractor's profit & overhead		20%	65.00
Total Composite rate		<u>390.00</u>	390.00
Each e) 1.5" (40 mm) dia.			
1. Labour			
Total Labour rate	Same as in item 23-39(a)3	159.38	159.40
2. Materials			
Brass ball valve 40 mm	1.00 No. @	425.00	425.00
Contractor's profit & overhead		20%	85.00
Total Composite rate		<u>510.00</u>	510.00
Each f) 2" (50 mm) dia.			
1. Labour			
Total Labour rate	Same as in item 23-45(c)	55.81	55.80
2. Materials			
Brass ball valve 50 mm	1.00 No. @	750.00	750.00
Contractor's profit & overhead		20%	150.00
Total Composite rate		<u>900.00</u>	900.00

Item No. 23- 61-1

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each	Providing chambers 9" x 6" x 24" for stop cocks and valves etc. with 4-1/2" (115mm) thick burnt brick masonry walls in 1:6 cement sand mortar, 6" thick cement concrete 1:4:8 in foundation, 1/2" thick plaster in 1:3 cement sand mortar to all inner wall surfaces, 1" thick concrete 1:2:4 flooring complete with C.I. hinged cover and frame 9" x 6" weighing 6.35 kg fixed in 1:2:4 concrete including curing, excavation, back filling and disposal of earth.			
	Materials			
	Excavation	1.5 x 1.25 x 3	5.63 Cu.ft =	0.16 Cu.m.
	6" found. concrete	1.5 x 1.25 x 0.5	0.94 Cu.ft =	0.03 Cu.m.
	Brick masonry 1:6	4 x 0.38 x 2	3.04 Cu.ft =	0.09 Cu.m.
	1/2" thick plaster 1:3	2.5 x 1.92	4.80 Sq.ft =	0.45 Sq.m.
	1" thick 1:2:4 conc.	0.75 x 0.5	0.38 Sq.ft =	0.03 Sq.m.
	C.I. hinged cover & frame		6.35 Kg.	
	1. Labour			
	For excavation	Same as in item 3-21(b)	0.16 Cu.m. @	207.38 33.04
	For concrete	Same as in item 5-5(a)	0.03 Cu.m. @	2013.13 53.45
	For brick masonry	Same as in item 11-2(b)	0.09 Cu.m. @	1194.75 102.86
	For plaster	Same as in item 15-3	0.45 Sq.m. @	127.19 56.74
	For flooring	Same as in item 14-2(b)	0.03 Sq.m. @	114.38 3.99
	For fixing			
	Mason		0.50 Hrs @	125.00 62.50
	Labourer		0.50 Hrs @	87.50 43.75
				<u>356.32</u>
	Contractor's profit & overhead		20%	71.26
	Total Labour rate			<u>427.58</u>
				427.60
	2. Material			
	Concrete 1:4:8	Rate as per item 5-5(a)	0.03 Cu.m. @	4613.64 122.49
	Brick masonry	Rate as per item 11-3(b)2	0.09 Cu.m. @	6294.87 541.95
	Flooring 1:2:4	Rate as per item 14-2(b)1	0.03 Sq.m. @	195.77 6.82
	Plaster 1/2" thick	Rate as per item 15-2	0.45 Sq.m. @	96.01 42.83
	C.I. cover & frame		6.35 Kg. @	105.00 666.75
				<u>1380.85</u>
	Contractor's profit & overhead		20%	276.17
	Total Composite rate			<u>2084.61</u>
				2084.60
	Item No. 23- 62-1			
Each	Providing chambers 15" x 9" x 24" for house meters with 4-1/2" thick burnt brick masonry walls in 1:6 cement sand mortar, 6" thick cement concrete 1:4:8 in foundation, 1/2" thick plaster in 1:3 cement sand mortar to all inner wall surfaces, 1" thick concrete 1:2:4 flooring complete with cast iron hinged cover and frame 15" x 9" weighing 12.7 kg fixed in 1:2:4 concrete including curing, excavation, back filling and disposal of earth.			
	Materials			
	Excavation	2 x 1.5 x 3	9.00 Cu.ft =	0.25 Cu.m.
	6" found. concrete	2 x 1.5 x 0.5	1.50 Cu.ft =	0.04 Cu.m.
	Brick masonry 1:6	5.5 x 0.38 x 2	4.18 Cu.ft =	0.12 Cu.m.
	1/2" thick plaster 1:3	4 x 2	8.00 Sq.ft =	0.74 Sq.m.
	1" thick 1:2:4 conc.	1.25 x 0.5	0.63 Sq.ft =	0.06 Sq.m.
	C.I. hinged cover & frame		12.70 Kg.	
	1. Labour			
	For excavation	Same as in item 3-21(b)	0.25 Cu.m. @	207.38 52.86
	For concrete	Same as in item 5-5(a)	0.04 Cu.m. @	2013.13 85.52
	For brick masonry	Same as in item 11-2(b)	0.12 Cu.m. @	1194.75 141.43
	For plaster	Same as in item 15-3	0.74 Sq.m. @	127.19 94.56
	For flooring	Same as in item 14-2(b)	0.06 Sq.m. @	114.38 6.64
	For fixing			
	Mason		0.50 Hrs @	125.00 62.50
	Labourer		0.50 Hrs @	87.50 43.75
				<u>487.27</u>
	Contractor's profit & overhead		20%	97.45
				<u>97.45</u>

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate	584.72	584.70
	2. Material		
	Concrete 1:4:8 Rate as per item 5-5(a) 0.04 Cu.m. @ 4613.64	195.99	
	Brick masonry Rate as per item 11-3(b)2 0.12 Cu.m. @ 6294.87	745.19	
	Plaster 1/2" thick Rate as per item 14-2(b)1 0.74 Sq.m. @ 195.77	145.55	
	Flooring 1:2:4 Rate as per item 15-2 0.06 Sq.m. @ 96.01	5.58	
	C.I. cover & frame 12.70 Kg. @ 105.00	1333.50	
		<u>2425.81</u>	
	Contractor's profit & overhead 20%	485.16	
	Total Composite rate	<u>3495.69</u>	3495.70

Item No. 23-63

- Each a) **Providing chambers 30" x 18" x 56" as per approved design for sluice valve 3" to 12" dia. with 18" dia. C.I. cover and frame weighing 88.9 Kg. fixed in 4" thick R.C.C. 1:2:4 slab with re-steel 5 lbs./cu.ft and 9" thick burnt brick masonry walls in 1:6 cement sand mortar, 6" thick cement concrete 1:3:6 in foundation, 1" thick concrete 1:2:4 flooring, 1/2" thick plaster in 1:3 cement sand mortar to all inner wall surfaces, including providing and fixing C.I. foot rest at every 12" beyond 30" depth including curing, excavation, back filling and disposal of surplus earth.**

Materials

Excavation	4 x 3 x 5.5	66.00	Cu.ft =	1.87	Cu.m.
R.C.C. slab 1:2:4	4 x 3 x 0.33	3.96	Cu.ft =	0.11	Cu.m.
6" found. concrete	2.5 x 1.5 x 0.5	2.50	Cu.ft =	0.07	Cu.m.
Brick masonry 1:6	11 x 0.75 x 9/2	37.13	Cu.ft =	1.05	Cu.m.
1/2" thick plaster 1:3	8 x 4.5	36.00	Sq.ft =	3.35	Sq.m.
1" thick 1:2:4 conc.	1.25 x 0.5	0.63	Sq.ft =	0.06	Sq.m.
M.S. bars	3.38 x 5/2.2	7.68	Kg.		
C.I. hinged cover & frame		88.90	Kg.		

1. Labour

For excavation	Same as in item 3-21(b)	1.87	Cu.m. @	207.38	387.62
For 1:2:4 concrete	Same as in item 5-13(a)	0.11	Cu.m. @	1292.38	144.94
For 1:3:6 concrete	Same as in item 5-5(a)	0.07	Cu.m. @	2013.13	142.53
For brick masonry	Same as in item 11-2(b)	1.05	Cu.m. @	1194.75	1256.16
For plaster	Same as in item 15-3	3.35	Sq.m. @	127.19	425.53
For flooring	Same as in item 14-2(b)	0.06	Sq.m. @	114.38	6.64
For fixing					
Mason		0.50	Hrs @	125.00	62.50
Labourer		0.50	Hrs @	87.50	43.75

2469.68

Contractor's profit & overhead 20%

493.94

Total Labour rate

2963.61**2963.60**

2. Material

Concrete 1:2:4	Rate as per item 5-17(a)1	0.11	Cu.m. @	8338.90	935.20
Concrete 1:3:6	Rate as per item 5-13(e)	0.07	Cu.m. @	6712.29	475.24
Brick masonry	Rate as per item 11-3(b)2	1.05	Cu.m. @	6294.87	6618.44
Plaster 1/2" thick	Rate as per item 15-2(a)	3.35	Sq.m. @	96.01	321.22
Flooring 1:2:4	Rate as per item 14-2(b)1	0.06	Sq.m. @	195.77	11.37
Mild steel bars(G-40)		7.68	Tonn @	88.00	676.00
C.I. cover & frame		88.90	Kg. @	105.00	9334.50
C.I. foot rest		2.00	No. @	80.00	160.00

18531.98

Contractor's profit & overhead 20%

3706.40

Total Composite rate

25201.99**25202.00**

- Per b) **Extra for depth beyond 54" (1.37m) including cost of C.I.foot rest for every 12"(300mm) depth (for depth less than 54" (1.37m) deduct at the same rate).**

Considering 12" (300 mm) depth

Materials

Brick masonry 1:6	11 x 0.75 x 1	8.25	Cu.ft =	0.23	Cu.m.
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Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
1/2" thick plaster 1:3	8 x 1	8.00	Sq.ft =	0.74	Sq.m.	
C.I. foot rest		1.00	No.			
1. Labour						
For brick masonry	Same as in item 11-2(b)	0.23	Cu.m. @	1194.75	279.15	
For plaster	Same as in item 15-3	0.74	Sq.m. @	127.19	94.56	
For fixing						
Mason		0.25	Hrs @	125.00	31.25	
Labourer		0.25	Hrs @	87.50	21.88	
					426.84	
Contractor's profit & overhead			20%		85.37	
Total Labour rate					17.07	17.05
2. Material						
Brick masonry	Rate as per item 11-3(b)2	0.23	Cu.m. @	6294.87	1470.76	
Plaster 1/2" thick	Rate as per item 15-2(a)	0.74	Sq.m. @	960.10	713.83	
C.I. foot rest		1.00	No. @	80.00	80.00	
					2264.59	
Contractor's profit & overhead			20%		452.92	
Total Composite rate					107.66	107.65

Item No. 23- 64

- Each a) **Providing chambers 42" x 42" x 7'-0" as per approved design for sluice valve 15" to 24" dia. with 24" dia. C.I. cover and frame weighing 127 Kg. fixed in 6" thick R.C.C. 1:2:4 slab with re-steel 5 lbs./cu.ft and 9" thick burnt brick masonry walls in 1:6 cement sand mortar, 6" thick cement concrete 1:3:6 in foundation, 1" thick concrete 1:2:4 flooring, 1/2" thick plaster in 1:3 cement sand mortar to all inner wall surfaces, including providing & fixing C.I. foot rest at every 12" beyond 30" depth including curing, excavation, back filling and disposal of surplus earth.**

Excavation	5 x 3 x 5.5	82.50	Cu.ft =	2.34	Cu.m.	
R.C.C. slab 1:2:4	5 x 5 x 0.5	12.50	Cu.ft =	0.35	Cu.m.	
6" found. concrete	2.5 x 1.5 x 0.5	2.50	Cu.ft =	0.07	Cu.m.	
Brick masonry 1:6	17 x 0.75 x 7	89.25	Cu.ft =	2.53	Cu.m.	
1/2" thick plaster 1:3	14 x 7	98.00	Sq.ft =	9.11	Sq.m.	
1" thick 1:2:4 conc.	3.5 x 3.5	12.25	Sq.ft =	1.14	Sq.m.	
M.S. bars	10.93 x 5/2.2	24.61	Kg.			
C.I. hinged cover & frame		127.00	Kg.			
1. Labour						
For excavation	Same as in item 3-21(b)	2.34	Cu.m. @	207.38	484.52	
For 1:2:4 concrete	Same as in item 5-13(a)	0.35	Cu.m. @	1292.38	457.51	
For 1:3:6 concrete	Same as in item 5-5(a)	0.07	Cu.m. @	2013.13	142.53	
For brick masonry	Same as in item 11-2(b)	2.53	Cu.m. @	1194.75	3019.87	
For plaster	Same as in item 15-3	9.11	Sq.m. @	127.19	1158.40	
For flooring	Same as in item 14-2(b)	1.14	Sq.m. @	114.38	130.21	
For fixing						
Mason		0.50	Hrs @	125.00	62.50	
Labourer		0.50	Hrs @	87.50	43.75	
					5499.29	
Contractor's profit & overhead			20%		1099.86	
Total Labour rate					6599.15	6599.15
2. Material						
Concrete 1:2:4	Rate as per item 5-17(a)1	0.35	Cu.m. @	8338.90	2952.03	
Concrete 1:3:6	Rate as per item 5-13(d)	0.07	Cu.m. @	6712.29	475.24	
Brick masonry	Rate as per item 11-3(b)2	2.53	Cu.m. @	6294.87	15911.00	
Plaster 1/2" thick	Rate as per item 15-2(a)	9.11	Sq.m. @	96.01	874.44	
Flooring 1:2:4	Rate as per item 14-2(b)1	1.14	Sq.m. @	195.77	222.88	
Mild steel bars(G-40)		24.61	Tonn @	88.00	2166.00	
C.I. cover & frame		127.00	Kg. @	105.00	13335.00	
C.I. foot rest		5.00	No. @	80.00	400.00	
					36336.59	
Contractor's profit & overhead			20%		7267.32	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	50203.06	50203.05
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Per b) Extra for depth beyond 7 ft.(2.14 m) including cost of C.I. foot rest for every 12" (300mm) depth (for depth less than 7 ft (2.14 m) deduct at the same rate).

Considering 12" (300 mm) depth

Materials

Brick masonry 1:6	17 x 0.75 x 1	12.75	Cu.ft =	0.36	Cu.m.
1/2" thick plaster 1:3	14 x 1	14.00	Sq.ft =	1.30	Sq.m.
C.I. foot rest		1.00	No.		
1. Labour					
For brick masonry	Same as in item 11-3(a)	0.36	Cu.m. @	1194.75	431.41
For plaster	Same as in item 15-3	1.30	Sq.m. @	127.19	165.49
For fixing					
Mason		0.25	Hrs @	125.00	31.25
Labourer		0.25	Hrs @	87.50	21.88

650.02

Contractor's profit & overhead

20%

130.00

Total Labour rate

26.00

26.00

2. Material

Brick masonry	Rate as per item 11-3(b)2	0.36	Cu.m. @	6294.87	2273.00
Plaster 1/2" thick	Rate as per item 15-2(a)	1.30	Sq.m. @	96.01	124.92
C.I. foot rest		1.00	No. @	80.00	80.00

2477.92

Contractor's profit & overhead

20%

495.58

Total Composite rate

125.12

125.10

Item No. 23- 65

Each a) Providing chambers 45" x 42" x 8'-0" as per approved design for sluice valve 27" to 30" dia. with 30" dia. Concrete Cover. fixed in 6" thick R.C.C. 1:2:4 slab with re-steel 5 lbs./cu.ft and 9" thick burnt brick masonry walls in 1:6 cement sand mortar, 6" thick cement concrete 1:3:6 in foundation, 1" thick concrete 1:2:4 flooring, 1/2" thick plaster in 1:3 cement sand mortar to all inner wall surfaces, including providing and fixing C.I. foot rest at every 12" beyond 30" depth including curing, excavation, back filling and disposal of surplus earth.

Excavation	5.25 x 5 x 9	236.25	Cu.ft =	6.69	Cu.m.
R.C.C. slab 1:2:4	5.25x 5 x 0.5	13.13	Cu.ft =	0.37	Cu.m.
6" found. concrete	5.25 x 5 x 0.5	13.13	Cu.ft =	0.37	Cu.m.
Brick masonry 1:6	17.5 x 0.75 x 8	105.00	Cu.ft =	2.97	Cu.m.
1/2" thick plaster 1:3	14.5 x 8	116.00	Sq.ft =	10.78	Sq.m.
1" thick 1:2:4 conc.	3.75 x 3.5	13.13	Sq.ft =	1.22	Sq.m.
M.S. bars	9.6 x 5/2.2	21.82	Kg.		

1. Labour

For excavation	Same as in item 3-21(b)	6.69	Cu.m. @	207.38	1387.49
For 1:2:4 concrete	Same as in item 5-13(a)	0.37	Cu.m. @	1292.38	480.39
For 1:3:6 concrete	Same as in item 5-5(a)	0.37	Cu.m. @	2013.13	748.29
For brick masonry	Same as in item 11-2(b)	2.97	Cu.m. @	1194.75	3552.78
For plaster	Same as in item 15-3	10.78	Sq.m. @	127.19	1371.17
For flooring	Same as in item 14-2(b)	1.22	Sq.m. @	114.38	139.51
For fixing					
Mason		0.50	Hrs @	125.00	62.50
Labourer		0.50	Hrs @	87.50	43.75

7785.88

Contractor's profit & overhead

20%

1557.18

Total Labour rate

9343.06

9343.05

2. Material

Concrete 1:2:4	Rate as per item 5-17(a)1	0.37	Cu.m. @	8338.90	3099.63
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Concrete 1:3:6	Rate as per item 5-13(d)	0.37	Cu.m. @ 6712.29	2495.01
Brick masonry	Rate as per item 11-3(b)2	2.97	Cu.m. @ 6294.87	18718.83
Plaster 1/2" thick	Rate as per item 15-2(a)	10.78	Sq.m. @ 96.01	1035.05
Flooring 1:2:4	Rate as per item 14-2(b)1	1.22	Sq.m. @ 195.77	238.80
Mild steel bars(G-40)		21.82	Tonn @ 88.00	1920.00
C.I. cover & frame		1.00	Nos. @ 105.00	105.00
C.I. foot rest		6.00	No. @ 80.00	480.00
				<u>28092.32</u>
Contractor's profit & overhead			20%	5618.46
Total Composite rate				<u>43053.84</u>

43053.85

Per b) Extra for depth beyond 8 ft (2.44 m) including cost of C.I. foot rest for every 12" (300mm) depth (for depth less than 8 ft (2.44 m) deduct at the same rate).

Considering 12" (300 mm) depth

Materials

Brick masonry 1:6	17.5 x 0.75 x 1	13.13	Cu.ft = 0.37	Cu.m.
1/2" thick plaster 1:3	14.5 x 1	14.50	Sq.ft = 1.35	Sq.m.

C.I. foot rest

1.00 No.

1. Labour

For brick masonry	Same as in item 11-2(b)	0.37	Cu.m. @ 1194.75	444.10
For plaster	Same as in item 15-3	1.35	Sq.m. @ 127.19	171.40

For fixing

Mason 0.25 Hrs @ 125.00 31.25

Labourer 0.25 Hrs @ 87.50 21.88

668.62

Contractor's profit & overhead

20%

133.72

Total Labour rate

26.74

26.75

2. Material

Brick masonry Rate as per item 11-3(b)2 0.37 Cu.m. @ 6294.87 2339.85

Plaster 1/2" thick Rate as per item 15-2 1.35 Sq.m. @ 96.01 129.38

C.I. foot rest 1.00 No. @ 80.00 80.00

2549.23

Contractor's profit & overhead

20%

509.85

Total Composite rate

128.71

128.70

b) Extra for 95 Kg cast Iron Pipe

CI Cover weight 95.00 Kg. @ 105.00 20002.50

Contractor's profit & overhead 20% 4000.50

Total Composite rate 24003.00

24003.00

Item No. 23- 66

Supply and fix gas items including all accessories and fittings such as G.I pipe, rubber pipe, specials, gas stop cocks etc.

Each a) Gyser 35 gallons capacity

1. Labour

Plumber 6.00 Hrs @ 125.00 750.00

Labourer 6.00 Hrs @ 87.50 525.00

1275.00

Contractor's profit & overhead

20%

255.00

Total Labour rate

1530.00

1530.00

2. Materials

Gas Gyser 35 gallons capacity 1.00 No. @ 9350.00 9350.00

Accessories 5% 467.50

9817.50

Contractor's profit & overhead

20%

1963.50

Total Composite rate

13311.00

13311.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Each	b) Gyser 50 gallons capacity			
	1. Labour			
	Total Labour rate	Same as in item 23-66(a)	1530.00	1530.00
	2. Materials			
	Gas Gyser 50 gallons capacity	1.00 No. @	10500.00	10500.00
	Accessories		5%	525.00
				11025.00
	Contractor's profit & overhead		20%	2205.00
	Total Composite rate			14760.00
Each	c) Gas room heater (ordinary, single burner)			
	1. Labour			
	Plumber	4.00 Hrs @	125.00	500.00
	Labourer	4.00 Hrs @	87.50	350.00
				850.00
	Contractor's profit & overhead		20%	170.00
	Total Labour rate			1020.00
	2. Materials			
	Gas room heater (ordinary)	1.00 No. @	3500.00	3500.00
	Accessories		5%	175.00
				3675.00
	Contractor's profit & overhead		20%	735.00
	Total Composite rate			5430.00
Each	d) Gas room heater (ordinary, double burner)			
	1. Labour			
	Total Labour rate	Same as in item 23-66(c)	1020.00	1020.00
	2. Materials			
	Gas room heater (ordinary)	1.00 No. @	5500.00	5500.00
	Accessories		5%	275.00
				5775.00
	Contractor's profit & overhead		20%	1155.00
	Total Composite rate			7950.00
Each	e) Gas room heater (fancy, single burner)			
	1. Labour			
	Total Labour rate	Same as in item 23-66(c)	1020.00	1020.00
	2. Materials			
	Gas room heater (Fancy)	1.00 No. @	6500.00	6500.00
	Accessories		5%	325.00
				6825.00
	Contractor's profit & overhead		20%	1365.00
	Total Composite rate			9210.00
Each	f) Gas room heater (fancy, Double burner)			
	1. Labour			
	Total Labour rate	Same as in item 23-66(c)	1020.00	1020.00
	2. Materials			
	Gas room heater (Fancy)	1.00 No. @	13500.00	13500.00
	Accessories		5%	675.00
				14175.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	2835.00	
	Total Composite rate		18030.00	18030.00
Each g)	Gas room heater (fire place design with artificial log or coal, double burner)			
	1. Labour			
	Total Labour rate	Same as in item 23-66(a)	1530.00	1530.00
	2. Materials			
	Gas room heater, fire place design	1.00 No. @	5500.00	5500.00
	Accessories		5%	275.00
				5775.00
	Contractor's profit & overhead	20%	1155.00	
	Total Composite rate		8460.00	8460.00
Each h)	Gas lamp (single)			
	1. Labour			
	Plumber	3.00 Hrs @	125.00	375.00
	Labourer	3.00 Hrs @	87.50	262.50
				637.50
	Contractor's profit & overhead	20%	127.50	
	Total Labour rate		765.00	765.00
	2. Materials			
	Gas lamp Single	1.00 No. @	500.00	500.00
	Accessories		5%	25.00
				525.00
	Contractor's profit & overhead	20%	105.00	
	Total Composite rate		1395.00	1395.00
Each i)	Gas lamp (double)			
	1. Labour			
	Total Labour rate	Same as in item 23-66(h)	765.00	765.00
	2. Materials			
	Gas lamp Double	1.00 No. @	1000.00	1000.00
	Accessories		5%	50.00
				1050.00
	Contractor's profit & overhead	20%	210.00	
	Total Composite rate		2025.00	2025.00
Each j)	Instant Gas Gyser 5 Litre capacity			
	1. Labour			
	Plumber	6.00 Hrs @	125.00	750.00
	Labourer	6.00 Hrs @	87.50	525.00
				1275.00
	Contractor's profit & overhead	20%	255.00	
	Total Labour rate		1530.00	1530.00
	2. Materials			
	Instant Gas Gyser (6 Litre Capacity)	1.00 No. @	5500.00	5500.00
	Accessories		5%	275.00
				5775.00
	Contractor's profit & overhead	20%	1155.00	
	Total Composite rate		8460.00	8460.00
Each k)	Instant Gas Gyser 8 Litre capacity			
	1. Labour			
	Plumber	6.00 Hrs @	125.00	750.00
	Labourer	6.00 Hrs @	87.50	525.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	1275.00	
	Total Labour rate		255.00	
			<u>1530.00</u>	1530.00
	2. Materials			
	Instant Gas Gyser (8 Litre Capacity)	1.00 No. @	7500.00	7500.00
	Accessories		5%	375.00
			<u>7875.00</u>	
	Contractor's profit & overhead	20%	1575.00	
	Total Composite rate		<u>10980.00</u>	10980.00
Each	L) Instant Gas Gyser 10 Litre capacity			
	1. Labour			
	Plumber	6.00 Hrs @	125.00	750.00
	Labourer	6.00 Hrs @	87.50	525.00
			<u>1275.00</u>	
	Contractor's profit & overhead	20%	255.00	
	Total Labour rate		<u>1530.00</u>	1530.00
	2. Materials			
	Instant Gas Gyser (10 Litre Capacity)	1.00 No. @	9500.00	9500.00
	Accessories		5%	475.00
			<u>9975.00</u>	
	Contractor's profit & overhead	20%	1995.00	
	Total Composite rate		<u>13500.00</u>	13500.00
Each	m) Instant Gas Gyser 12.5 Litre capacity			
	1. Labour			
	Plumber	6.00 Hrs @	125.00	750.00
	Labourer	6.00 Hrs @	87.50	525.00
			<u>1275.00</u>	
	Contractor's profit & overhead	20%	255.00	
	Total Labour rate		<u>1530.00</u>	1530.00
	2. Materials			
	Instant Gas Gyser (12 Litre Capacity)	1.00 No. @	12500.00	12500.00
	Accessories		5%	625.00
			<u>13125.00</u>	
	Contractor's profit & overhead	20%	2625.00	
	Total Composite rate		<u>17280.00</u>	17280.00
	Item No. 23- 67-1			
Per point	Providing and connecting PVC/ Rubber pipe for gas connection			
	1. Labour			
	Pipe fitter	0.50 Hrs @	125.00	62.50
	Contractor's profit & overhead		20%	12.50
	Total Labour rate		<u>75.00</u>	75.00
	2. Materials			
	Rubber connection pipe	1.00 No. @	104.50	104.50
	Clamps	2.00 No. @	12.00	24.00
			<u>128.50</u>	
	Contractor's profit & overhead	20%	25.70	
	Total Composite rate		<u>229.20</u>	229.20
	Item No. 23- 68			
% increase	Add extra for respective payable item of ground floor			
	a) For first floor			10%

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

b) For every additional floor above first floor

7.5%

Each **Item No. 23-69 -1**
Providing and fixing Complete Bathroom set of Master Common Bath Set with noble hand shower 009/1, 010/3, 025/1, 027B/1, 085/1, 2015/1(3002) including Shower Set, Basin Mixer, bib Cock etc. complete in all respect

1. Labour				
Plumber	6.00	Hrs @	125.00	750.00
Labourer	12.00	Hrs @	87.50	1050.00
				<u>1800.00</u>
Contractor's profit & overhead			20%	360.00
Total Labour rate				<u>2160.00</u>

2160.00

2. Material				
Common Bath Set with noble hand shower 009/1, 010/3, 025/1, 027B/1, 085/1, 2015/1(3002)	1.00	No. @	13871.00	13871.00
Contractor's profit & overhead			20%	2774.20
Total Composite rate				<u>18805.20</u>

18805.20

Each **Item No. 23- 70-1**
Providing and fixing Sonex/Master WC CR Shower including Connecting Flexible Pipe and bib cok including making requisite numbers of holes and making good with approved material.

1. Labour				
Plumber	0.50	Hrs @	125.00	62.50
Labourer	1.00	Hrs @	87.50	87.50
				<u>150.00</u>
Contractor's profit & overhead			20%	30.00
Total Labour rate				<u>180.00</u>

180.00

Muslim Shower CR (Complete Set including Pipe)	1.00	No. @	2000.00	2000.00
C.P. bib cock 1/2"	1.00	No. @	900.00	900.00
				2900.00
Contractor's profit & overhead			20%	580.00

Total Composite rate				<u>3660.00</u>
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3660.00

Item No. 23- 71-1
Supply and fix Hot water Boiler 100 Gallon capacity with galvanized sheet 10 Guage thickness with 6.5 ft high and 2.5 ft Diameter as G.I pipe including Specials

Each a) Water Boiler 100 gallons capacity

1. Labour				
Plumber	8.00	Hrs @	125.00	1000.00
Labourer	8.00	Hrs @	87.50	700.00
				<u>1700.00</u>
Contractor's profit & overhead			20%	340.00
Total Labour rate				<u>2040.00</u>

2040.00

2. Materials				
100 Gallon Water Boiler	1.00	No. @	120000.00	120000.00
Accessories			5%	6000.00
				<u>126000.00</u>
Contractor's profit & overhead			20%	25200.00

Total Composite rate				<u>153240.00</u>
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153240.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 24-1

Providing and laying tega formed of first class burnt clay bricks on end laid in 3/8" (9.5mm) joint and over 1/2" (13mm) thick cement sand mortar bedding projecting to a height of not more than 6" (150mm) top of drain along the property side where required laid to line, grade, slope and shape according to the drawings.

R.M. a) 3" (75 mm) thick

Considering 100 ft length, size of brick =	9"x 4.38"x 2.69"				
Brick + Mortar	$4.38 + 0.38 = 4.76"/12 =$	0.40	Cu.ft.		
No. of bricks	$100/0.396$	252.63	Nos.		
Wastage @ 5%		12.63	Nos.		
		266.00	Nos.		
Joint mortar	$253 \times 9 \times 43 / 16 \times 38 \times 1 / 1728$	1.35	Cu.ft.		
Beding	$100 \times 43 / 16 \times 5 \times 1 / 144$	0.93	Cu.ft.		
		2.28	Cu.ft.		
Wastage @ 10%		0.23	Cu.ft.		
		2.51	Cu.ft.	=	0.07 Cu.m.

i) Cement sand mortar 1 : 3

1. Labour

Mason	6.00	Hrs	@	125.00	750.00
Labourer	6.00	Hrs	@	87.50	525.00
Bahishti	0.50	Hrs	@	87.50	43.75
					1318.75
Contractor's profit & overhead				20%	263.75
Total Labour rate					51.92

51.90

2. Material

Bricks	266.00	No.	@	10.00	2660.00
Mortar 1 : 3	0.07	Cu.m	@	2538.00	180.18
					2840.18
Water Charges				1.5%	42.60
					2882.78
Contractor's profit & overhead				20%	576.56
Total					3459.34
Total Composite rate					165.42

165.40**ii) Cement sand mortar 1 : 5**

1. Labour

Total Labour rate	Same as in item 24-1(a)1				51.90
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51.90

2. Material

Bricks	266.00	No.	@	10.00	2660.00
Mortar 1 : 5	0.07	Cu.m	@	1645.00	116.78
					2776.78
Water Charges				1.5%	41.65
					2818.43
Contractor's profit & overhead				20%	563.69
Total					3382.12
Total Composite rate					162.87

162.85**R.M. b) 4-1/2" (114 mm) thick**

Brick + Mortar	$2.69 + 0.38 = 3.07"/12 =$	0.26	Cu.ft.		
No. of bricks	$100/0.256$	390.88	Nos.		
Wastage @ 5%		19.54	Nos.		
		411.00	Nos.		
Joint mortar	$391 \times 9 \times 35 / 8 \times 38 \times 1 / 1728$	3.39	Cu.ft.		

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Bedding	100x35/8x0.5x1/144	1.52	Cu.ft.	
			4.90	Cu.ft.	
	Wastage @ 10%		0.49	Cu.ft.	
			5.40	Cu.ft.	= 0.15 Cu.m.
i) Cement sand mortar 1 : 3					
1. Labour					
	Mason		9.00	Hrs @	125.00 1125.00
	Labourer		9.00	Hrs @	87.50 787.50
	Bahishti		0.50	Hrs @	87.50 43.75
					1956.25
	Contractor's profit & overhead			20%	391.25
	Total Labour rate				77.02 77.00
2. Material					
	Bricks		411.00	No. @	10.00 4110.00
	Mortar 1 : 3		0.15	Cu.m @	2538.00 387.79
					4497.79
	Water Charges			1.5%	67.47
					4565.26
	Contractor's profit & overhead			20%	913.05
	Total				5478.31
	Total Composite rate				256.76 256.75
ii) Cement sand mortar 1 : 5					
1. Labour					
	Total Labour rate	Same as in item 24-1(b)1			77.00 77.00
2. Material					
	Bricks		266.00	No. @	10.00 2660.00
	Mortar 1 : 5		0.07	Cu.m @	1645.00 116.78
					2776.78
	Water Charges			1.5%	41.65
					2818.43
	Contractor's profit & overhead			20%	563.69
	Total				3382.12
	Total Composite rate				187.97 187.95
Item No. 24-2					
Sq.m	Providing and laying first class burnt clay bricks 3" (75 mm) thick laid in 3/8" (9.5mm) joint in cement sand mortar on side of drains and in other works where required. All joints to be completely filled and struck flush.				
	Considering 100 Sq.ft of surface area				
	Size of brick =	9"x 4.38"x 2.69"			
	Brick + mortar =	9" + 0.38" = 9.38"/12	0.78	Ft.	
		4.38" + 0.38" = 4.76"/12	0.40	Ft.	
	Area	0.782 x 0.397	0.31	Sq.ft.	
	No. of bricks	100/0.31	322.11	Nos.	
	Wastage @ 5%		16.11	Nos.	
			338.21	Nos.	
	Surface area brick	9" x 35/8 x 1/144	0.27	Sq.ft.	
	Surface area of mortar		0.04	Sq.ft.	
	Joint mortar	322x0.0358x43/16x1/12	2.58	Cu.ft.	
	Wastage @ 10%		0.26	Cu.ft.	
			2.84	Cu.ft.	= 0.08 Cu.m.

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

a) Cement sand mortar 1 : 3

1. Labour

Mason	8.75	Hrs	@	125.00	1093.75
Labourer	8.75	Hrs	@	87.50	765.63
Bahishti	0.75	Hrs	@	87.50	65.63

1925.00

Contractor's profit & overhead 20% 385.00

Total Labour rate 248.56

248.55

2. Material

Bricks	338.21	No.	@	10.00	3382.14
Mortar 1 : 3	0.08	Cu.m	@	2538.00	204.12

3586.27

Water Charges 1.5% 53.79

3640.06

Contractor's profit & overhead 20% 728.01

Total Composite rate 718.56

718.55**b) Cement sand mortar 1 : 5**

1. Labour

Total Labour rate Same as in item 24-2(a) 248.55

248.55

2. Material

Bricks	338.21	No.	@	10.00	3382.14
Mortar 1 : 5	0.08	Cu.m	@	1645.00	132.30

3514.45

Water Charges 1.5% 52.72

3567.16

Contractor's profit & overhead 20% 713.43

Total 4280.59

Total Composite rate 709.14

709.15**c) Cement sand mortar 1 : 6**

1. Labour

Total Labour rate Same as in item 24-2(a) 248.55

248.55

2. Material

Bricks	338.21	No.	@	10.00	3382.14
Mortar 1 : 6	0.08	Cu.m	@	1410.00	113.40

3495.55

Water Charges 1.5% 52.43

3547.98

Contractor's profit & overhead 20% 709.60

Total 4257.57

Total Composite rate 706.66

706.65**Item No. 24-3**

Sq.m. Providing and laying first class burnt clay bricks on edge 4.5" (115mm) thick laid in 3/8" (9.5mm) joint in cement sand mortar on side of drains and on other works where required. All joints to be completely filled and struck flush.

Considering 100 Sq.ft of surface area

Size of brick = 9"x 4.38"x 2.69"

Brick + mortar = 9" + 0.38" = 9.38"/12 0.78 Ft.

2.69" + 0.38" = 3.07"/12 0.26 Ft.

Area 0.782 x 0.256 0.20 Sq.ft.

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
No. of bricks	100/0.20	499.52	Nos.		
Wastage @ 5%		24.98	Nos.		
		524.50	Nos.		
Surface area brick	9" x 43/16 x 1/144	0.17	Sq.ft.		
Surface area of mortar		0.03	Sq.ft.		
Joint mortar	500x0.0314x35/8x1/12	5.72	Cu.ft.		
Wastage @ 10%		0.57	Cu.ft.		
		6.30	Cu.ft.	= 0.18	Cu.m.
a) Cement sand mortar 1 : 3					
1. Labour					
Mason		12.50	Hrs @	125.00	1562.50
Labourer		12.50	Hrs @	87.50	1093.75
Bahishti		1.00	Hrs @	87.50	87.50
					2743.75
Contractor's profit & overhead				20%	548.75
Total Labour rate					354.27
					354.25
2. Material					
Bricks		524.50	No. @	10.00	5244.96
Mortar 1 : 3		0.18	Cu.m @	2538.00	452.57
					5697.53
Water Charges				1.5%	85.46
					5782.99
Contractor's profit & overhead				20%	1156.60
Total					6939.59
Total Composite rate					1100.97
					1100.95
b) Cement sand mortar 1 : 5					
1. Labour					
Total Labour rate	Same as in item 24-3(a)				354.25
					354.25
2. Material					
Bricks		524.50	No. @	10.00	5244.96
Mortar 1 : 5		0.18	Cu.m @	1645.00	293.33
					5538.30
Water Charges				1.5%	83.07
					5621.37
Contractor's profit & overhead				20%	1124.27
Total					6745.64
Total Composite rate					1080.08
					1080.10
c) Cement sand mortar 1 : 6					
1. Labour					
Total Labour rate	Same as in item 24-3(a)				354.25
					354.25
2. Material					
Bricks		524.50	No. @	10.00	5244.96
Mortar 1 : 6		0.18	Cu.m @	1410.00	251.43
					5496.39
Water Charges				1.5%	82.45
					5578.84
Contractor's profit & overhead				20%	1115.77
Total					6694.60
Total Composite rate					1074.59
					1074.60

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 24-4

Cu.m. Providing and laying first class burnt brick masonry including raking out joints and curing in base (foundation) of surface drains in 3/8" (9.5mm) joints of required thickness.

Considering drain length 100 ft. and 9" wide.

Brick on edge	100 x 9 x 4.38 x 1/144	27.38	Cu.ft		
Flat brick	100 x 9 x 2.69 x 1/144	16.81	Cu.ft		
		44.19	Cu.ft	=	1.25 Cu.m
Surface area of drain = 100 x 9/12		75.00	Sq.ft	=	6.97 Sq.m

a) Cement sand mortar 1 : 3

1. Labour

Mason		10.50	Hrs	@	125.00	1312.50
Labourer		10.50	Hrs	@	87.50	918.75
Bahishti		0.85	Hrs	@	87.50	74.38
						<u>2305.63</u>
Contractor's profit & overhead					20%	461.13
Total Labour rate						<u>238.16</u>

238.15

2. Material

Brick on edge	Rate as in item 24-3(a)	6.97	Sq.m	@	622.25	4337.08
Flat brick	Rate as in item 24-2(a)	6.97	Sq.m	@	391.67	2729.94
						<u>7067.03</u>

Water Charges

					1.5%	106.01
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Total						<u>7173.03</u>
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Contractor's profit & overhead

					20%	1434.61
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Total						<u>8607.64</u>
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Total Composite rate = A/1.25 + Lab rate

A

7124.27**7124.25****b) Cement sand mortar 1 : 5**

1. Labour

Total Labour rate	Same as in item 24-4(a)					238.15
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238.15

2. Material

Brick on edge	Rate as in item 24-3(a)	6.97	Sq.m	@	595.92	4153.57
Flat brick	Rate as in item 24-2(a)	6.97	Sq.m	@	378.15	2635.74
						<u>6789.30</u>

Water Charges

					1.5%	101.84
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Total						<u>6891.14</u>
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Contractor's profit & overhead

					20%	1378.23
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Total						<u>8269.37</u>
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Total Composite rate = A/1.25 + Lab rate

A

6853.65**6853.65****c) Cement sand mortar 1 : 6**

1. Labour

Total Labour rate	Same as in item 24-4(a)					238.15
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238.15

2. Material

Brick on edge	Rate as in item 24-3(a)	6.97	Sq.m	@	591.41	4122.14
Flat brick	Rate as in item 24-2(a)	6.97	Sq.m	@	376.12	2621.56
						<u>6743.70</u>

Water Charges

					1.5%	101.16
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Total						<u>6844.86</u>
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Contractor's profit & overhead

					20%	1368.97
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Total						<u>8213.83</u>
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Total Composite rate = A/1.25 + Lab rate

A

6809.21**6809.20**

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 24-5

Cu.m. Providing and laying cement concrete using 3/4" (19mm) and down gauge crushed aggregate in base (foundation) of flat or semi circular surface drain of required thickness cast in panels not exceeding 24 sq.in (60 sq.cm) including curing, but excluding the cost of reinforcement and expansion joints.

a) 1 : 2 : 4

1. Labour

Mason	1.50	Hrs	@	125.00	187.50
Labourer	10.00	Hrs	@	87.50	875.00
Bahishti	2.00	Hrs	@	87.50	175.00
Mistri	0.25	Hrs	@	110.00	27.50
					<u>1265.00</u>

Extra for surface preparation & working in confined space

5.0% 63.25

1328.25

Contractor's profit & overhead

20% 265.65

1593.90

Total Labour rate

1593.90

2. Material

Same as in item 5-8(c) 4971.92

3. Plant and equipment

Same as in item 5-5(a) 214.00

4. Formwork

10% 497.19

5683.12

Total of 2,3 & 4

Contractor's profit & overhead

20% 1136.62

6819.74

Total

Total Composite rate

8413.64

8413.65

b) 1 : 3 : 6

1. Labour

Same as per item 24-5(a) above 1593.90

1593.90

2. Material

Same as per item 5-8(d) 4379.69

3. Mixing charges

Same as per item 5-5(a) 214.00

4. Formwork

10% 437.97

6625.56

Total of 2,3 & 4

Contractor's profit & overhead

20% 1325.11

7950.67

Total

Total Composite rate

9544.57

9544.55

c) 1 : 4 : 8

1. Labour

Same as per item 24-5(a) above 1593.90

1593.90

2. Material

Same as per item 5-8(e) 3682.80

3. Mixing charges

Same as per item 5-5(a) 214.00

4. Formwork

12% 441.94

5932.63

Total of 2,3 & 4

Contractor's profit & overhead

20% 1186.53

7119.16

Total

Total Composite rate

8713.06

8713.05

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 24-6

Cu.m. Providing and laying first class burnt brick masonry including surface preparation, raking out joints and curing of surface preparation, raking out joints and curing of surface drains in 3/8" (9.5 mm) joints of required thickness.

Considering drain length 100 ft. and 9" wide and vertical sides 18" high and thickness 4.5".

Contents

Sides	2x 100x 35/8x 22.5x 1/144	136.72	Cu.ft. =	3.87	Cu.m.
Bottom	100x 9x 35/8x 1/144	27.34	Cu.ft. =	0.77	Cu.m.
				4.65	Cu.m.
Sides					
Surface area	2x100x22.5x1/12	375.00	Cu.ft. =	34.85	Sq.m.
Bottom	100x 9x 35/8x 1/144	27.34	Cu.ft. =	0.77	Cu.m.

a) Cement sand mortar 1 : 3

Labour

Cost of sides	Rate as per item 24-3(a)	34.85	Sq.m. @	354.25	12346.07
Cost of bottom	Rate as per item 24-4(a)	0.77	Cu.m. @	238.15	184.42
					<u>12530.49</u> A
Total Labour rate	A /4.65				2696.85
					2696.85

Composite

Cost of sides	Rate as per item 24-3(a)	34.85	Sq.m. @	1100.95	38369.54
Cost of bottom	Rate as per item 24-4(a)	0.77	Cu.m. @	7124.25	5516.96
					<u>43886.50</u> A
Total Composite rate	A /4.65				9445.38
					9445.40

b) Cement sand mortar 1 : 5

Labour

Total Labour rate	Same as in item 24 - 6(a)				2696.85
					2696.85

Composite

Cost of sides	Rate as per item 24-3(b)	34.85	Sq.m. @	1080.10	37641.49
Cost of bottom	Rate as per item 24-4(b)	0.77	Cu.m. @	6853.65	5307.41
					<u>42948.89</u> A
Total Composite rate	A /4.65				9243.58
					9243.60

c) Cement sand mortar 1 : 6

Labour

Total Labour rate	Same as in item 24 - 6(a) above				2696.85
					2696.85

Cost of sides	Rate as per item 24-3(c)	34.85	Sq.m. @	1074.60	37449.81
Cost of bottom	Rate as per item 24-4(c)	0.77	Cu.m. @	6809.20	5272.98
					<u>42722.79</u> A

Total Composite rate	A /4.65				9194.92
					9194.90

Item No. 24-7

Sq.m. Providing and laying first class burnt flat bricks 3" (75mm) thick laid in 3/8" (9.5mm) joint in Herring bond pitching in cement sand mortar laid to lines, grades, shapes and slopes as per drawings.

Considering 100 Sq.ft of surface area

a) Cement sand mortar 1 : 3

1. Labour

Mason	7.50	Hrs @	125.00	937.50
Labourer	7.50	Hrs @	87.50	656.25

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Bahishti	0.50	Hrs @ 87.50	43.75
				1637.50
	Contractor's profit & overhead		20%	327.50
	Total Labour rate			211.43
				211.45
	2. Material	Same as in item 24-2(a)		3640.06
	Contractor's profit & overhead		20%	728.01
	Total			4368.07
	Total Composite rate			681.44
				681.45
	b) Cement sand mortar 1 : 5			
	1. Labour			
	Total Labour rate	Same as in item 24-7(a)		211.45
				211.45
	2. Material	Same as in item 24-2(b)		3514.45
	Contractor's profit & overhead		20%	702.89
	Total			4217.33
	Total Composite rate			665.24
				665.25
	c) Cement sand mortar 1 : 6			
	1. Labour			
	Total Labour rate	Same as in item 24-7(a)		211.45
				211.45
	2. Material	Same as in item 24-2(c)		3495.55
	Contractor's profit & overhead		20%	699.11
	Total			4194.65
	Total Composite rate			662.79
				662.80
	Item No. 24-8			
Sq.m.	Providing and laying first class burnt brick on edge 4.5" (115mm) thick laid in 3/8" (9.5mm) joint in herring bond pitching in cement sand mortar laid to lines, grades, shapes and slopes as per drawings.			
	Considering 100 Sq.ft of surface area			
	a) Cement sand mortar 1 : 3			
	1. Labour			
	Mason	11.00	Hrs @ 125.00	1375.00
	Labourer	11.00	Hrs @ 87.50	962.50
	Bahishti	0.75	Hrs @ 87.50	65.63
				2403.13
	Contractor's profit & overhead		20%	480.63
	Total Labour rate			310.29
				310.30
	2. Material	Same as in item 24-3(a)		5782.99
	Contractor's profit & overhead		20%	1156.60
	Total			6939.59
	Total Composite rate			1056.99
				1057.00
	b) Cement sand mortar 1 : 5			
	1. Labour			
	Total Labour rate	Same as in item 24-8(b)		310.30
				310.30
	2. Material	Same as in item 24-3(b)		5538.30
	Contractor's profit & overhead		20%	1107.66
	Total			6645.95
	Total Composite rate			1025.40
				1025.40

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
c) Cement sand mortar 1 : 6			
1. Labour			
Total Labour rate	Same as in item 24-8(a)	310.30	310.30
2. Material	Same as in item 24-3(c)	5496.39	
Contractor's profit & overhead	20%	1099.28	
Total		6595.67	
Total Composite rate		1019.99	1020.00
Item No. 24-9			
Cu.m.	Providing and laying 4" (100 mm) thick cement concrete block masonry using crushed aggregate 3/4" (19mm) and down gauge including surface preparation raking out joints and curing for surface drains in 1/2" (12.7mm) thick joints of required thickness.		
a) 1 : 4 : 8			
i) Cement sand mortar 1 : 4			
1. Labour			
Labour rate	Same as in item 9-1(ai)	2644.34	
Extra for surface preparation & working in confined space	5%	132.22	
		2776.56	
Contractor's profit & overhead	20%	555.31	
Total Labour rate		3331.87	3331.85
Same as in item 9-1(ai)		4000.92	
Contractor's profit & overhead	20%	800.18	
Total		4801.10	
Total Composite rate		8132.97	8132.95
ii) Cement sand mortar 1 : 5			
Labour			
Total Labour rate	Same as in item 24 - 9(ai)	3331.85	3331.85
Material + scaffolding			
Same as in item 9-1(aii)		3914.01	
Contractor's profit & overhead	20%	782.80	
Total		4696.81	
Total Composite rate		8028.66	8028.65
iii) Cement sand mortar 1 : 6			
Labour			
Total Labour rate	Same as in item 24 - 9(a)	3331.85	3331.85
Material + scaffolding			
Same as in item 9-1(aiii)		3873.40	
Contractor's profit & overhead	20%	774.68	
Total		4648.08	
Total Composite rate		7979.93	7979.95
b) 1 : 3 : 6			
i) Cement sand mortar 1 : 3			
1. Labour			
Total Labour rate	Same as per item 24-9(a)	3331.85	3331.85
Material + scaffolding			
Same as in item 9-2(ai)		4792.85	

Unit	Description	Component Cost		Unit Rate
			(Rs)	(Rs)
	Contractor's profit & overhead	20%	958.57	
	Total		5751.42	
	Total Composite rate		9083.27	9083.25
ii) Cement sand mortar 1 : 5				
	Labour			
	Total Labour rate	Same as in item 24 - 9(ai)	3331.85	3331.85
	Material + scaffolding			
	Same as in item 9-2(ii)		4665.33	
	Contractor's profit & overhead	20%	933.07	
	Total		5598.40	
	Total Composite rate		8930.25	8930.25
iii) Cement sand mortar 1 : 6				
	Labour			
	Total Labour rate	Same as in item 24 - 9(ai)	3331.85	3331.85
	Material + scaffolding			
	Same as in item 9-2(aiii)		4590.95	
	Contractor's profit & overhead	20%	918.19	
	Total		5509.14	
	Total Composite rate		8840.99	8841.00
Item No. 24-10				
Cu.m.	Providing, dressing and laying uncoursed rubble masonry in foundation and sides of drains of required thickness including curing.			
i) Cement sand mortar 1 : 3				
	1. Labour			
	Labour rate	Same as in item 12- 4(b)1	1930.00	
	Extra for surface preparation & working in confined space	5%	96.50	
			2026.50	
	Contractor's profit & overhead	20%	405.30	
	Total Labour rate		2431.80	2431.80
	Material + scaffolding			
	Same as in item 12-4(b)1		3455.57	
	Contractor's profit & overhead	20%	691.11	
	Total		4146.68	
	Total Composite rate		6578.48	6578.50
ii) Cement sand mortar 1 : 4				
	Labour			
	Total Labour rate	Same as in item 24 -10(a)	2431.80	2431.80
	Material + scaffolding			
	Same as in item 12-4(b)ii		2957.24	
	Contractor's profit & overhead	20%	591.45	
	Total		3548.69	
	Total Composite rate		5980.49	5980.50
iii) Cement sand mortar 1 : 6				
	Labour			
	Total Labour rate	Same as in item 24 -10(a)	2431.80	2431.80

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Material + scaffolding		
	Same as in item 12-4(b)iii	2948.70	
	Contractor's profit & overhead	20% 589.74	
	Total	3538.44	
	Total Composite rate	5970.24	5970.25
Item No. 24-11			
Cu.m.	Providing and laying cement concrete using 3/4" (19mm) and down gauge crushed aggregate in base (foundation) flat or semi circular and sides of open surface drains of required thickness cast in panels not exceeding 24" (60cm) without using forms including curing but excluding the cost of reinforcement and expansion joints.		
a) 1 : 2 : 4			
1. Labour			
	Labour Same as in item 24 -5(a)	1265.00	
	Extra for surface preparation & working in confined space	25% 316.25	
		1581.25	
	Contractor's profit & overhead	20% 316.25	
	Total Labour rate	1897.50	1897.50
2. Material			
	Same as in item 5-8(c)	4971.92	
3. Plant and equipment			
	Same as in item 5-5(a)	214.00	
4. Formwork			
		1% 49.72	
	Total of 2,3 & 4	5235.64	
	Contractor's profit & overhead	20% 1047.13	
	Total	6282.77	
	Total Composite rate	8180.27	8180.25
b) 1 : 3 : 6			
1. Labour			
	Same as per item 24-11(a) above	1897.50	1897.50
2. Material			
	Same as per item 5-8(d)	4379.69	
3. Mixing charges			
	Same as per item 5-5(a)	214.00	
4. Formwork			
		1% 43.80	
	Total of 2,3 & 4	4637.49	
	Contractor's profit & overhead	20% 927.50	
	Total	5564.98	
	Total Composite rate	7462.48	7462.50
c) 1 : 4 : 8			
1. Labour			
	Same as per item 24-11(a) above	1897.50	1897.50
2. Material			
	Same as per item 5-8(e)	3682.80	
3. Mixing charges			
	Same as per item 5-5(a)	214.00	
4. Formwork			
		1% 36.83	
	Total of 2,3 & 4	3933.62	
	Contractor's profit & overhead	20% 786.72	
	Total	4720.35	
	Total Composite rate	6617.85	6617.85

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 24-12

R.M. Laying R.C.C pipes in position provided by the Department including jointing.

a) 6" to 12" (150mm to 300mm)

1. Labour

Pipe layer	1.00	Hrs	@	125.00	125.00	
Labourer	2.00	Hrs	@	87.50	175.00	
					<u>300.00</u>	A
Contractor's profit & overhead				20%	60.00	
Total Labour rate					<u>360.00</u>	360.00

2. Material

Jointing material @ 25% of A				25%	75.00	
Contractor's profit & overhead				20%	15.00	
Total					<u>90.00</u>	
Total Composite rate					450.00	450.00

b) Above 12" to 24" (300mm to 600mm)

1. Labour

Pipe layer	1.50	Hrs	@	125.00	187.50	
Labourer	3.00	Hrs	@	87.50	262.50	
					<u>450.00</u>	A
Contractor's profit & overhead				20%	90.00	
Total Labour rate					<u>540.00</u>	540.00

2. Material

Jointing material @ 25% of A				25%	112.50	
Contractor's profit & overhead				20%	22.50	
Total					<u>135.00</u>	
Total Composite rate					675.00	675.00

c) Above 24" to 36" (600mm to 900mm)

1. Labour

Pipe layer	2.00	Hrs	@	125.00	250.00	
Labourer	4.00	Hrs	@	87.50	350.00	
					<u>600.00</u>	A
Contractor's profit & overhead				20%	120.00	
Total Labour rate					<u>720.00</u>	720.00

2. Material

Jointing material @ 25% of A				25%	150.00	
Contractor's profit & overhead				20%	30.00	
Total					<u>180.00</u>	
Total Composite rate					900.00	900.00

Item No. 24-14

R.M. Construct drain comprising P.C.C. 1:2:4 with 1:4:8 P.C.C. bedding laid in lines, grades, slopes and shapes rendering exposed surface of concrete with 3/8" (6mm) thick 1:2 cement sand mortar in accordance with Punjab Standard Drains and as directed by the Engineer Incharge (Excavation shall be paid separately)

a) Type IV

1. Labour

Mason	3.25	Hrs	@	125.00	406.25	
Labourer	11.83	Hrs	@	87.50	1035.13	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Bahishti	1.67 Hrs @ 87.50		146.13	
			<u>1587.50</u>	
Contractor's profit & overhead		20%	317.50	
Total Labour rate			<u>580.62</u>	580.60
2. Material				
Concrete 1:4:8 for	104.76 Cu.ft @ 91.37		9,572	
Concrete 1:2:4	55.92 Cu.ft @ 211.56		11,830	
Plaster 1:2	324.16 Sq.ft @ 8.44		<u>2,737</u>	
			24,139	
3. Plant and equipment			214.00	
Total			<u>24,353</u>	
Contractor's profit & overhead		20%	4,871	
Total			<u>29,224</u>	
Total Composite rate			977.88	977.90
b) Type V				
1. Labour				
Mason	4.00 Hrs @ 125.00		500.00	
Labourer	16.00 Hrs @ 87.50		1400.00	
Bahishti	2.20 Hrs @ 87.50		<u>192.50</u>	
			2092.50	
Contractor's profit & overhead		20%	418.50	
Total Labour rate			<u>765.32</u>	765.30
2. Material				
Concrete 1:4:8 for	155.21 Cu.ft @ 91.37		14,181	
Concrete 1:2:4	77.43 Cu.ft @ 211.56		16,381	
Plaster 1:2	382.49 Sq.ft @ 8.44		<u>3,229</u>	
			33,792	
3. Plant and equipment			214	
Total			<u>34,006</u>	
Contractor's profit & overhead		20%	6,801	
Total			<u>40,807</u>	
Total Composite rate			1,363.98	1364.00
c) Type VI				
1. Labour				
Mason	4.55 Hrs @ 125.00		568.75	
Labourer	18.50 Hrs @ 87.50		1618.75	
Bahishti	2.50 Hrs @ 87.50		<u>218.75</u>	
			2406.25	
Contractor's profit & overhead		20%	481.25	
Total Labour rate			<u>880.07</u>	880.05
2. Material				
Concrete 1:4:8 for	180.68 Cu.ft @ 91.37		16,509	
Concrete 1:2:4	86.05 Cu.ft @ 211.56		18,205	
Plaster 1:2	432.49 Sq.ft @ 8.44		<u>3,651</u>	
			38,365	
3. Plant and equipment			214	
Total			<u>38,579</u>	
Contractor's profit & overhead		20%	7,716	
Total			<u>46,294</u>	
Total Composite rate			1,547.79	1547.80
d) Type VII				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
1. Labour				
Mason	5.04 Hrs @	125.00	630.00	
Labourer	20.50 Hrs @	87.50	1793.75	
Bahishti	2.78 Hrs @	87.50	243.25	
			<u>2667.00</u>	
Contractor's profit & overhead		20%	533.40	
Total Labour rate			<u>975.43</u>	975.45
2. Material				
Concrete 1:4:8 for	205.21 Cu.ft @	91.37	18,750	
Concrete 1:2:4	90.71 Cu.ft @	211.56	19,191	
Plaster 1:2	482.50 Sq.ft @	8.44	4,073	
			<u>42,014</u>	
3. Plant and equipment			214	
Total			<u>42,228</u>	
Contractor's profit & overhead		20%	8,446	
Total			<u>50,674</u>	
Total Composite rate			1,694.60	1694.60
e) Type VIII				
1. Labour				
Mason	5.63 Hrs @	125.00	703.75	
Labourer	22.90 Hrs @	87.50	2003.75	
Bahishti	3.10 Hrs @	87.50	271.25	
			<u>2978.75</u>	
Contractor's profit & overhead		20%	595.75	
Total Labour rate			<u>1089.45</u>	1089.45
2. Material				
Concrete 1:4:8 for	229.56 Cu.ft @	91.37	20,975	
Concrete 1:2:4	99.78 Cu.ft @	211.56	21,110	
Plaster 1:2	540.83 Sq.ft @	8.44	4,566	
			<u>46,650</u>	
3. Plant and equipment			214	
Total			<u>46,864</u>	
Contractor's profit & overhead		20%	9,373	
Total			<u>56,237</u>	
Total Composite rate			1,880.88	1880.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 25-1

Providing and laying cement concrete pipes moulded with cement concrete 1:1.5:3 with spigot socket or collar joint as specified in trenches to correct alignment and grade, jointing with jointing materials including cutting pipes where necessary, finishing and testing.

R.M. a) Plain cement concrete pipe conforming to ASTM C-14 class-II or equivalent.

i) **4" (100 mm) inner dia.**

1. Labour

Labourer	1.00	Hrs	@	87.50	87.50
Contractor's profit & overhead				20%	17.50
Total Labour rate					<u>105.00</u>

105.00

2. Material

Pipe 100 mm dia. with collars etc.	1.00	R.M.	@	82.5	82.50
Jointing material				5%	4.13
					<u>86.63</u>
Contractor's profit & overhead				20%	17.33
Total Composite rate					<u>208.95</u>

208.95

R.M. ii) 6" (150 mm) inner dia.

1. Labour

Pipe layer	0.50	Hrs	@	125.00	62.50
Labourer	0.50	Hrs	@	87.50	43.75
					<u>106.25</u>
Contractor's profit & overhead				20%	21.25
Total Labour rate					<u>127.50</u>

127.50

2. Material

Pipe 150 mm dia. with collars etc.	1.00	R.M.	@	99.00	99.00
Jointing material				5%	4.95
					<u>103.95</u>
Contractor's profit & overhead				20%	20.79
Total Composite rate					<u>252.24</u>

252.24

R.M. iii) 9" (225 mm) inner dia.

1. Labour

Pipe layer	0.70	Hrs	@	125.00	87.50
Labourer	0.70	Hrs	@	87.50	61.25
					<u>148.75</u>
Contractor's profit & overhead				20%	29.75
Total Labour rate					<u>178.50</u>

178.50

2. Material

Pipe 200 mm dia. with collars etc.	1.00	R.M.	@	203.50	203.50
Jointing material				5%	10.18
					<u>213.68</u>
Contractor's profit & overhead				20%	42.74
Total Composite rate					<u>434.91</u>

434.90

b) R.C.C pipe with bell & spigot or tongued & grooved joint conforming to ASTM C-76 class II wall B or BS 3911 Part I class M including cost of reinforcement.

R.M. i) 9" 225 mm inner dia.

1. Labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate Same as in item 25-1(a) 3		178.50	178.50
	2. Material			
	Pipe 225 mm	1.00	R.M. @ 632.00	632.00
	Jointing material		5%	31.60
				<u>663.60</u>
	Contractor's profit & overhead		20%	132.72
	Total Composite rate			<u>974.82</u>
				974.80
R.M.	ii) 12" (300 mm) inner dia.			
	1. Labour			
	Pipe layer	1.50	Hrs @ 125.00	187.50
	Labourer	1.50	Hrs @ 87.50	131.25
				<u>318.75</u>
	Contractor's profit & overhead		20%	63.75
	Total Labour rate			<u>382.50</u>
				382.50
	2. Material			
	Pipe 300 mm	1.00	R.M. @ 752.75	752.75
	Jointing material		5%	37.64
				<u>790.39</u>
	Contractor's profit & overhead		20%	158.08
	Total Composite rate			<u>1,330.97</u>
				1330.95
R.M.	iii) 15" (375 mm) inner dia.			
	1. Labour			
	Pipe layer	1.50	Hrs @ 125.00	187.50
	Labourer	1.50	Hrs @ 87.50	131.25
				<u>318.75</u>
	Contractor's profit & overhead		20%	63.75
	Total Labour rate			<u>382.50</u>
				382.50
	2. Material			
	Pipe 375 mm	1.00	R.M. @ 954.88	954.88
	Jointing material		5%	47.74
				<u>1,002.62</u>
	Contractor's profit & overhead		20%	200.52
	Total Composite rate			<u>1,585.64</u>
				1585.65
R.M.	iv) 18" (450 mm) inner dia.			
	1. Labour			
	Pipe layer	1.75	Hrs @ 125.00	218.75
	Labourer	1.75	Hrs @ 87.50	153.13
				<u>371.88</u>
	Contractor's profit & overhead		20%	74.38
	Total Labour rate			<u>446.25</u>
				446.25
	2. Material			
	Pipe 450 mm	1.00	R.M. @ 1157.00	1,157.00
	Jointing material		5%	57.85
				<u>1,214.85</u>
	Contractor's profit & overhead		20%	242.97
	Total Composite rate			<u>1,904.07</u>
				1904.05
R.M.	v) 21" (525 mm) inner dia.			
	1. Labour			
	Pipe layer	2.25	Hrs @ 125.00	281.25
	Labourer	2.25	Hrs @ 87.50	196.88
				<u>478.13</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	95.63	
	Total Labour rate		573.75	573.75
	2. Material			
	Pipe 525 mm	0.94	R.M. @ 1538.15	1,445.86
	Jointing material		5%	72.29
				1,518.15
	Contractor's profit & overhead	20%	303.63	
	Total Composite rate		2,395.53	2395.55
R.M.	vi) 24" (600 mm) inner dia.			
	1. Labour			
	Pipe layer	2.50	Hrs @ 125.00	312.50
	Labourer	2.50	Hrs @ 87.50	218.75
				531.25
	Contractor's profit & overhead	20%	106.25	
	Total Labour rate		637.50	637.50
	2. Material			
	Pipe 600 mm	1.00	R.M. @ 1792.25	1,792.25
	Jointing material		5%	89.61
				1,881.86
	Contractor's profit & overhead	20%	376.37	
	Total Composite rate		2,895.74	2895.75
R.M.	vii) 27" (675 mm) inner dia.			
	1. Labour			
	Pipe layer	3.50	Hrs @ 125.00	437.50
	Labourer	3.50	Hrs @ 87.50	306.25
				743.75
	Contractor's profit & overhead	20%	148.75	
	Total Labour rate		892.50	892.50
	2. Material			
	Pipe 675 mm	1.00	R.M. @ 2225.38	2,225.38
	Jointing material		5%	111.27
				2,336.64
	Contractor's profit & overhead	20%	467.33	
	Total Composite rate		3,696.47	3696.45
R.M.	viii) 30" (750 mm) inner dia.			
	1. Labour			
	Pipe layer	4.00	Hrs @ 125.00	500.00
	Labourer	4.00	Hrs @ 87.50	350.00
				850.00
	Contractor's profit & overhead	20%	170.00	
	Total Labour rate		1,020.00	1020.00
	2. Material			
	Pipe 750 mm	1.00	R.M. @ 2543.00	2,537.91
	Jointing material		5%	126.90
				2,664.81
	Contractor's profit & overhead	20%	532.96	
	Total Composite rate		4,217.77	4217.75
R.M.	ix) 33" (825 mm) inner dia.			
	1. Labour			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Pipe layer	4.20	Hrs @ 125.00	525.00
	Labourer	5.00	Hrs @ 87.50	437.50
				<u>962.50</u>
	Contractor's profit & overhead		20%	192.50
	Total Labour rate			<u>1,155.00</u> 1155.00
	2. Material			
	Pipe 825 mm	1.00	R.M. @ 3120.50	3,120.50
	Jointing material		5%	156.03
				<u>3,276.53</u>
	Contractor's profit & overhead		20%	655.31
	Total Composite rate			<u>5,086.83</u> 5086.85
R.M.	x) 36" (900 mm) inner dia.			
	1. Labour			
	Pipe layer	6.00	Hrs @ 125.00	750.00
	Labourer	6.00	Hrs @ 87.50	525.00
				<u>1,275.00</u>
	Contractor's profit & overhead		20%	255.00
	Total Labour rate			<u>1,530.00</u> 1530.00
	2. Material			
	Pipe 900 mm	1.00	R.M. @ 4160.00	4,160.00
	Jointing material		5%	208.00
				<u>4,368.00</u>
	Contractor's profit & overhead		20%	873.60
	Total Composite rate			<u>6,771.60</u> 6771.60
R.M.	xi) 42" (1050 mm) inner dia.			
	1. Labour			
	Pipe layer	8.00	Hrs @ 125.00	1,000.00
	Labourer	8.00	Hrs @ 87.50	700.00
				<u>1,700.00</u>
	Contractor's profit & overhead		20%	340.00
	Total Labour rate			<u>2,040.00</u> 2040.00
	2. Material			
	Pipe 1050 mm	1.00	R.M. @ 5603.75	5,603.75
	Jointing material		5%	280.19
				<u>5,883.94</u>
	Contractor's profit & overhead		20%	1,176.79
	Total Composite rate			<u>9,100.73</u> 9100.75
R.M.	xii) 48" (1200 mm) inner dia.			
	1. Labour			
	Pipe layer	12.00	Hrs @ 125.00	1,500.00
	Labourer	14.00	Hrs @ 87.50	1,225.00
				<u>2,725.00</u>
	Contractor's profit & overhead		20%	545.00
	Total Labour rate			<u>3,270.00</u> 3270.00
	2. Material			
	Pipe 1200 mm	0.97	R.M. @ 6816.50	6,605.19
	Jointing material		5%	330.26
				<u>6,935.45</u>
	Contractor's profit & overhead		20%	1,387.09

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Composite rate		11,592.54	11592.55
R.M.	xiii) 54" (1350 mm) inner dia.			
	1. Labour			
	Pipe layer	18.00	Hrs @ 125.00	2,250.00
	Labourer	18.00	Hrs @ 87.50	1,575.00
				<u>3,825.00</u>
	Contractor's profit & overhead		20%	765.00
	Total Labour rate			<u>4,590.00</u> 4590.00
	2. Material			
	Pipe 1350 mm	1.00	R.M. @ 10397.00	10,397.00
	Jointing material		5%	519.85
				<u>10,916.85</u>
	Contractor's profit & overhead		20%	2,183.37
	Total Composite rate			<u>17,690.22</u> 17690.20
R.M.	xiv) 60" (1500 mm) inner dia.			
	1. Labour			
	Pipe layer	24.42	Hrs @ 125.00	3,052.50
	Labourer	24.00	Hrs @ 87.50	2,100.00
				<u>5,152.50</u>
	Contractor's profit & overhead		20%	1,030.50
	Total Labour rate			<u>6,183.00</u> 6183.00
	2. Material			
	Pipe 1500 mm	1.00	R.M. @ 11552.00	11,552.00
	Jointing material		5%	577.60
				<u>12,129.60</u>
	Contractor's profit & overhead		20%	2,425.92
	Total Composite rate			<u>20,738.52</u> 20738.50
R.M.	xv) 66" (1650 mm) inner dia.			
	1. Labour			
	Pipe layer	36.00	Hrs @ 125.00	4,500.00
	Labourer	36.00	Hrs @ 87.50	3,150.00
				<u>7,650.00</u>
	Contractor's profit & overhead		20%	1,530.00
	Total Labour rate			<u>9,180.00</u> 9180.00
	2. Material			
	Pipe 1650 mm	0.72	R.M. @ 13862.00	9,911.33
	Jointing material		5%	495.57
				<u>10,406.90</u>
	Contractor's profit & overhead		20%	2,081.38
	Total Composite rate			<u>21,668.28</u> 21668.30
R.M.	xvi) 72" (1800 mm) inner dia.			
	1. Labour			
	Pipe layer	48.00	Hrs @ 125.00	6,000.00
	Labourer	48.00	Hrs @ 87.50	4,200.00
				<u>10,200.00</u>
	Contractor's profit & overhead		20%	2,040.00
	Total Labour rate			<u>12,240.00</u> 12240.00
	2. Material			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Pipe 1800 mm		1.00	R.M. @ 15400.00	15,400.00
Jointing material			5%	770.00
				<u>16,170.00</u>
Contractor's profit & overhead			20%	3,234.00
Total Composite rate				<u>31,644.00</u>
				23440.00

Item No. 25-2

Providing and fixing gulley trap with 4" (100mm) outlet, complete with 4" (100mm) thick 1:2:4 cement concrete using 3/4" (19mm) crushed aggregate for bed and kerb, 1/2" (13mm) thick cement plaster 1:3, 12"x12"x18" deep inside dimension chamber with C.I. grating 6"x6" cover and frame 12"x12".

Each a) **Cement concrete gulley trap 6" x 6" x 4" (150 x 150 mm) with C.I. cover and frame weighing not less than 10 kg.**

1. Labour

For concrete Same as in item 5-13(a) 1,292.38

For plaster Same as in item 15-3 127.19

For fixing

Mason 1.00 Hrs @ 125.00 125.00

Labourer 2.00 Hrs @ 87.50 175.00

1,719.56

Contractor's profit & overhead 20% 343.91

Total Labour rate 2,063.48

2063.50

2. Material

Concrete base 1.67 x 1.67 x 0.33 0.92 Cu.ft.

kerb 4 / 1.67 x 0.33 x 1.5 1.19 Cu.ft.

2.11 Cu.ft.

Wastage @ 10% 0.21 Cu.ft.

2.32 Cu.ft. = 0.07 Cu.m.

1/2" thick plaster 1:3

Inside 4/1x1.5 4/1 x 1.5 6.00 Sq.ft.

Wastage @ 10% 0.60 Sq.ft.

6.60 Sq.ft. = 0.61 Sq.m.

Concrete 1:2:4 Rate as per item 5-13(c) 0.07 Cu.m. @ 7304.52 479.22

Plaster 1/2" thick Rate as per item 15-3(b) 0.61 Sq.m. @ 97.36 59.72

Concrete gully trap 1.00 No. @ 400.00 400.00

Cast iron grating 1.00 Kg. @ 75.00 75.00

C.I. cover & frame 10.00 Kg. @ 105.00 1,050.00

2,063.94

Contractor's profit & overhead 20% 412.79

Total Composite rate 4,540.21

4540.20

Each b) **C.I. Gulley trap 6" x 6" x 4" weighing not less than 20 kg**

1. Labour

Total Labour rate Same as in item 25-2(a) 2,063.50

2063.50

2. Material Cost same as in item 25.2(a) above 2,063.94

Less cement concrete gulley trap 1.00 No. @ 400.00 400.00

1,663.94

C.P. gully trap 6" x 6" x 4" 1.00 No. @ 600.00 600.00

2,263.94

Contractor's profit & overhead 20% 452.79

Total Composite rate 4,780.23

4780.25

Each c) **Cement concrete gulley trap 6" x 6" x 4" with 2" (50 mm) thick RCC cover and C.I. frame weighing not less than 4 kg.**

1. Labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Total Labour rate	Same as in item 25-2(a)			2,063.50
				2063.50
2. Material	Cost same as in item 25.2(a) above			2,063.94
Less C.I. Cover & frame	10.00 Kg. @ 105.00			1,050.00
				1,013.94
C.I. frame of any size	4.00 Kg. @ 110.00			440.00
R.C.C cover (2" thick)	0.17 Cu.ft. @ 1942.40			330.21
				1,784.15
Contractor's profit & overhead		20%		356.83
Total Composite rate				4,204.48
				4204.50

Each d) **C.I. gulley trap 6" x 6" x 4" with 2" (50 mm) thick RCC cover and C.I. frame weighing not less than 4 kg.**

1. Labour				
Total Labour rate	Same as in item 25-2(a)			2,063.50
				2063.50
2. Material				
Cost same as in item 25.2(b) above				2,263.94
Less C.I. Cover & frame				1,050.00
				1,213.94
C.I. frame of any size	4.00 Kg. @ 110.00			440.00
R.C.C cover (2" thick)	0.17 Cu.ft. @ 1942.40			330.21
				1,984.15
Contractor's profit & overhead		20%		396.83
Total Composite rate				4,444.48
				4444.50

Item No. 25-3-1

Each **Constructing gulley grating chamber size 36" x 30" (inner dimensions) and 30" deep with glazed earthen ware trap and C.I grating 36" x 30" fixed in 6" thick RCC 1:2:4 slab with (5 lbs. per Cu.ft or 80.09 kg/cu.m steel) with 9" (225mm) burnt brick masonry walls set in 1:6 cement sand mortar, 6" (150 mm) thick 1:3:6 cement concrete in foundation, 1" (25 mm) thick 1:2:4 cement concrete flooring and 1/2" (13mm) thick 1:3 cement plaster to all inside wall surfaces including curing but excluding the cost of excavation, back filling and disposal of excavated stuff.**

1. Labour				
For concrete	Same as in item 5-13(a)	0.40	Cu.m. @ 1292.38	521.56
For brick masonry	Same as in item 11-2(a)	0.74	Cu.m. @ 1619.75	1,204.15
For plaster	Same as in item 15-3	0.70	Sq.m. @ 127.19	88.65
For flooring	Same as in item 14-2(b)	2.56	Sq.m. @ 114.38	292.32
For fixing				
Mason		1.00	Hrs @ 125.00	125.00
Labourer		2.00	Hrs @ 87.50	175.00
				2,406.68
Contractor's profit & overhead			20%	481.34
Total Labour rate				2,888.01
				2888.00
2. Material				
Concrete 1:3:6	4.5 x 4 x 0.5	9.00	Cu.ft. = 0.25	Cu.m.
Brick masonry	14 x 0.75 x 2.5	26.25	Cu.ft. = 0.74	Cu.m.
Flooring	3 x 2.5	7.50	Sq.ft. = 0.70	Sq.m.
Plastering	11 x 2.5	27.50	Sq.ft. = 2.56	Sq.m.
Concrete 1:2:4	Rate as per item 5-17(a)1	0.07	Cu.m. @ 8338.90	547.09
Concrete 1:3:6	Rate as per item 5-13(c)	0.07	Cu.m. @ 7304.52	479.22
Brick masonry	Rate as per item 11-3(b)2	0.74	Cu.m. @ 6294.87	4,679.71
Flooring 1:2:4	Rate as per item 14-2(b)1	2.56	Sq.m. @ 195.77	500.34
Plaster 1/2" thick	Rate as per item 15-3(b)	2.56	Sq.m. @ 97.36	248.84

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Mild steel bars(G-40)	12.00	Kg. @ 88.00	1,056.00
	Cast iron grating	35.00	Kg. @ 75.00	2,625.00
	P. trap 4", glazed	1.00	No. @ 160.00	160.00
				<u>10,296.19</u>
	Contractor's profit & overhead		20%	2,059.24
	Total Composite rate			<u>15,243.45</u> 15243.45

Item No. 25-4

- Each a) **Providing manhole type 'A' size 24" x 18" (inside dimensions) as per approved design and specifications complete for 4" to 12" dia pipes upto 4 ft. (1.2 m) depth with 16" dia. Concrete Cover fixed in 4" thick RCC 1:2:4 slab (with 5 lbs per Cu.ft. or 80 kg/Cu.m of steel), burnt brick masonry walls 9" (225 mm) thick set in 1:3 cement sand mortar, 6" thick 1:3:6 cement concrete in foundation, 4" av. thickness 1:2:4 cement concrete in benching and 1/2" (13mm) thick cement sand plaster in 1:3 to all inside wall surfaces, channels and benching including making requisite number of main and branch channels but excluding the cost of excavation, back filling and disposal of excavated stuff.**

Concrete 1:2:4	3.5 x 3 x 0.33	3.47	Cu.ft. =	0.10	Cu.m.
Concrete 1:3:6	3.5 x 3 x 0.5	5.25	Cu.ft. =	0.15	Cu.m.
Benching concrete		1.00	Cu.ft. =	0.03	Cu.m.
				0.28	Cu.m.
Brick masonry	10 x 0.75 x 2	15.00	Cu.ft. =	0.42	Cu.m.
M.S. bars	3.47 x 5 / 2.2046	7.87	Kg.		
Benching	2 x 1.5	3.00	Sq.ft. =	0.28	Sq.m.
Plastering	7 x 2	14.00	Sq.ft. =	1.30	Sq.m.
				1.58	Sq.m.
1. Labour					
For concrete	Same as in item 5-13(a)	0.28	Cu.m. @	1292.38	355.58
For brick masonry	Same as in item 11-2(a)	0.42	Cu.m. @	1619.75	688.08
For plaster	Same as in item 15-3	1.58	Sq.m. @	127.19	200.95
For flooring	Same as in item 14-2(b)	0.28	Sq.m. @	114.38	31.89
					<u>1,276.50</u>
Contractor's profit & overhead				20%	255.30
Total Labour rate					<u>1,531.80</u> 1531.80

2. Material

Concrete 1:2:4	Rate as per item 5-17(a)1	0.10	Cu.m. @	8338.90	818.30
Concrete 1:3:6	Rate as per item 5-13(c)	0.15	Cu.m. @	7304.52	1,086.06
Brick masonry	Rate as per item 11-3(b)2	0.42	Cu.m. @	6294.87	2,674.12
Flooring 1:2:4	Rate as per item 14-2(b)1	0.28	Sq.m. @	195.77	54.58
Plaster 1/2" thick	Rate as per item 15-3(b)	1.30	Sq.m. @	97.36	126.68
Mild steel bars(G-40)		7.87	Kg. @	88.00	692.55
16" Dia Concrete Cover along with Frame		1.00	Nos. @	3500.00	3,500.00
					<u>8,952.30</u>
Sundries				5%	447.61
					<u>9,399.91</u>
Contractor's profit & overhead				20%	1,879.98
Total Composite rate					<u>12,811.69</u> 12811.70

- Cm. b) **Extra for depth beyond 24" (600 m) and upto 48" (1.2 m) for 'A' type manholes**

For 12" (30 cm.) depth					
Brick masonry	10 x 0.75 x 1	7.50	Cu.ft. =	0.21	Cu.m.
Plastering	7 x 1	7.00	Sq.ft. =	0.65	Sq.m.
1. Labour					
For brick masonry	Same as in item 11-2(a)	0.21	Cu.m. @	1619.75	344.04

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
For plaster	Same as in item 15-3	0.65	Sq.m. @ 1271.88	827.43
				1,171.47
Contractor's profit & overhead			20%	234.29
Total Labour rate				46.86
				46.85
2. Material				
Brick masonry	Rate as per item 11-3(b)2	0.21	Cu.m. @ 6294.87	1,337.06
Plaster 1/2" thick	Rate as per item 15-2	0.65	Sq.m. @ 491.19	319.55
				1,656.61
Sundries			5%	82.83
				1,739.44
Contractor's profit & overhead			20%	347.89
Total Composite rate				116.44
				116.45

Item No. 25-5

Each a) **Providing manhole type 'B' size 36" x 30" (inside dimensions) x 48" deep as per approved design and specifications complete for 4" to 12" dia. pipe 4ft to 7'-6" depth with 18" dia (inside) Concrete Cover fixed in 6" thick RCC 1:2:4 slab with 5 lbs. per Cu.ft steel and brick masonry walls set in 1:3 cement sand mortar, 6" thick 1:3:6 cement concrete foundation, 4" av. thick 1:2:4 cement concrete in benching and 1/2" (13mm) thick cement plaster in 1:3 cement sand mortar, to all inner wall surfaces, channels and benching including providing and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff.**

Materials

Concrete 1:2:4	4.5 x 4 x 0.5	9.00	Cu.ft. = 0.25	Cu.m.
Concrete 1:3:6	4.5 x 4 x 0.5	9.00	Cu.ft. = 0.25	Cu.m.
Benching concrete = 3 x 2.5 x .33		2.48	Cu.ft. = 0.07	Cu.m.
				0.58
Brick masonry	14 x 0.75 x 2	21.00	Cu.ft. = 0.59	Cu.m.
M.S. bars	9 x 5 / 2.2046	20.41	Kg.	
Benching	3 x 2.5	7.50	Sq.ft. = 0.70	Sq.m.
Plastering	11 x 4	44.00	Sq.ft. = 4.09	Sq.m.
				4.79
				Sq.m.

1. Labour

For concrete	Same as in item 5-13(a)	0.58	Cu.m. @ 1292.38	749.40
For brick masonry	Same as in item 11-2(a)	0.59	Cu.m. @ 1619.75	963.32
For plaster	Same as in item 15-3	4.79	Sq.m. @ 127.19	608.75
For flooring	Same as in item 14-2(b)	0.70	Sq.m. @ 114.38	79.72
				2,401.19

Contractor's profit & overhead

20%

480.24

Total Labour rate

2,881.43

2881.45

2. Material

Concrete 1:2:4	Rate as per item 5-17(a)1	0.32	Cu.m. @ 8338.90	2,709.96
Concrete 1:3:6	Rate as per item 5-13(c)	0.25	Cu.m. @ 7304.52	1,861.82
Brick masonry	Rate as per item 11-3(b)2	0.59	Cu.m. @ 6294.87	3,743.77
Flooring 1:2:4	Rate as per item 14-2(b)1	0.70	Sq.m. @ 195.77	136.46
Plaster 1/2" thick	Rate as per item 15-3(b)	4.09	Sq.m. @ 97.36	398.14
Mild steel bars(G-40)		20.41	Kg. @ 88.00	1,796.24
18" Dia Concrete Cover along with Frame		1.00	Nos. @ 4500.00	4,500.00
				15,146.39

Contractor's profit & overhead

20%

3,029.28

Total Composite rate

21,057.10

21057.10

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Cm. b) **Extra for depth beyond 4' (1.2 m) and upto 7'-6" (2.2 m) for 'B' type manholes including cost of cast iron foot rest at every 12" (300mm) of depth**

For 12" (30 cm.)depth

Brick masonry	14 x 0.75 x 1	10.50	Cu.ft. =	0.30	Cu.m.
Plastering	7 x 1	7.00	Sq.ft. =	0.65	Sq.m.
1. Labour					
For brick masonry	Same as in item 11-3(a)	0.30	Cu.m. @	1619.75	481.66
For plaster	Same as in item 15-3	0.65	Sq.m. @	127.19	82.74
					564.40
Contractor's profit & overhead				20%	112.88
Total Labour rate					22.58

22.60

2. Material

Brick masonry	Rate as per item 11-3(b)2	0.30	Cu.m. @	6294.87	1,871.88
Plaster 1/2" thick	Rate as per item 15-2	0.65	Sq.m. @	491.19	319.55
C.I. foot rest		1.00	No. @	80.00	80.00
					2,271.43
Sundries				5%	113.57
					2,385.00
Contractor's profit & overhead				20%	477.00
Total Composite rate					117.98

118.00

Each c) **Extra for using C.I. cover and frame 18" dia. inside and weighing 89 kg for main roads.**

1. Material

Extra for using 89 Kg.C.I. cover and frame

C.I. cover & frame		89.00	Kg. @	75.00	6,675.00
18" Dia Concrete Cover along with Frame		1.00	Each @	4500.00	4,500.00

Contractor's profit & overhead 20% 1,335.00

Total Composite rate 3,510.00

3510.00

Item No. 25-6

Each a) **Providing manhole type 'C' size 36" x 30" (inside dimensions) x 7.5 ft deep as per approved design and specifications complete for 4" to 12" dia. pipe 7'-6" to 12 ft depth with 18" dia (inside) Concrete Cover fixed in 6" thick RCC 1:2:4 slab with 5 lbs per Cu.ft steel and brick masonry walls set in 1:3 cement sand mortar, 6" thick 1:3:6 cement concrete foundation, 4" av. thick 1:2:4 cement concrete in benching and 1/2" (13 mm) thick cement plaster in 1:3 cement sand mortar, to all inner wall surfaces, channels and benching including providing and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff.**

Materials

Concrete 1:2:4	4.5 x 4 x 0.5	9.00	Cu.ft. =	0.25	Cu.m.
Concrete 1:3:6	4.5 x 4 x 0.5	9.00	Cu.ft. =	0.25	Cu.m.
Benching concrete = 3 x 2.5 x 0.33		2.48	Cu.ft. =	0.07	Cu.m.
					0.58
Brick masonry	14 x 0.75 x 7.5	78.75	Cu.ft. =	2.23	Cu.m.
M.S. bars	9 x 5 / 2.2046	20.41	Kg.		
Benching	3 x 2.5	7.50	Sq.ft. =	0.70	Sq.m.
Plastering	11 x 7.5	82.50	Sq.ft. =	7.67	Sq.m.
Extra for channel		1.00	Sq.ft. =	0.09	Sq.m.
					8.46
					Sq.m.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
C.I. foot rest		7.00	Nos.	
1. Labour				
For concrete	Same as in item 5-13(a)	0.58	Cu.m. @ 1292.38	749.40
For brick masonry	Same as in item 11-2(a)	2.23	Cu.m. @ 1619.75	3,612.44
For plaster	Same as in item 15-3	8.46	Sq.m. @ 127.19	1,075.66
For flooring	Same as in item 14-2(b)	0.70	Sq.m. @ 114.38	79.72
				5,517.22
Contractor's profit & overhead			20%	1,103.44
Total Labour rate				6,620.67
				6620.65
2. Material				
Concrete 1:2:4	Rate as per item 5-17(a)1	0.32	Cu.m. @ 8338.90	2,709.96
Concrete 1:3:6	Rate as per item 5-13(c)	0.25	Cu.m. @ 7304.52	1,861.82
Brick masonry	Rate as per item 11-3(b)2	2.23	Cu.m. @ 6294.87	14,039.12
Flooring 1:2:4	Rate as per item 14-2(b)1	0.70	Sq.m. @ 195.77	136.46
Plaster 1/2" thick	Rate as per item 15-3(b)	7.67	Sq.m. @ 97.36	746.52
Mild steel bars(G-40)		20.41	Kg. @ 88.00	1,796.24
18" Dia Concrete Cover along with Frame		1.00	Each @ 4500.00	4,500.00
C.I. foot rest		7.00	No. @ 80.00	560.00
				26,350.12
Contractor's profit & overhead			20%	5,270.02
Total Composite rate				38,240.81
				38240.80

Cm. b) **Extra for depth beyond 7'-6" upto 12 ft (2.2 m to 3.66 m) for 'C' type manholes including cost of cast iron foot rest at every 12" (300mm) of depth**

For 12" (30 cm.) depth

1. Labour

Total Labour rate Same as in item 25-5(b) 22.60

22.60

Total Composite rate: Same as in item 25-5(b)

118.00

118.00

Item No. 25-7

Each a) **Providing manhole type 'D' size 4'-6" x 3' at bottom and 3' x 2' at top (inside dimensions at both level) x 13.5 ft deep as per approved design and specifications complete for 6" to 15" dia. pipe deeper than 12' upto 20 ft depth with 20" dia (inside) C.I. cover and frame (Wt. = 101.6 kg) fixed in 6" thick RCC 1:2:4 slab and 7" thick RCC slab and lintel for supporting 9" thick brick masonry upto 7'-6" depth from top and 18" thick masonry 6' including lintel (height from bottom) set in 1:3 cement sand mortar, 9" thick 1:3:6 cement concrete in foundation, 1:2:4 cement concrete in benching and 1/2" (13mm) thick cement plaster in 1:3 cement sand mortar, to all inner wall surfaces, channels and benching including providing and fixing C.I. foot rest at every 12" of depth and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff. The reinforcement for RCC shall be used at 5 lbs. per Cu.ft of concrete.**

Materials

RCC slab 1:2:4 4.5 x 3.5 x 0.5 7.88 Cu.ft. = 0.22 Cu.m.

Middle slab 7.5 x 6 x 0.58 26.10 Cu.ft. = 0.74 Cu.m.

Less openings 3.14 x 0.83 x 0.83 x 0.5 1.08 Cu.ft. = 0.03 Cu.m.

4.5 x 3.5 x 0.58 9.14 Cu.ft. = 0.26 Cu.m.

Concrete 1:3:6 7.5 x 6 x 0.75 33.75 Cu.ft. = 0.96 Cu.m.

Benching concrete = 4.5 x 3 x 0.33 4.46 Cu.ft. = 0.13 Cu.m.

Brick masonry

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
	Upto 7.5' depth	13 x 0.75 x 7.5	73.13	Cu.ft. = 2.07	Cu.m.	
	Above 7.5' to 13.5'	21 x 1.5 x 5.42	170.73	Cu.ft. = 4.84	Cu.m.	
				6.91	Cu.m.	
	M.S. bars	25.07 x 5 / 2.2046	56.86	Kg.		
	Benching	4.5 x 3	13.50	Sq.ft. = 1.25	Sq.m.	
	Plastering	10 x 7.5	75.00	Sq.ft. = 6.97	Sq.m.	
		15 x 5.42	81.30	Sq.ft. = 7.56	Sq.m.	
	Extra for channel		1.00	Sq.ft. = 0.09	Sq.m.	
				15.87	Sq.m.	
	C.I. foot rest		12.00	Nos.		
	1. Labour					
	For concrete	Same as in item 5-13(a)	1.75	Cu.m. @ 1292.38	2,267.91	
	For brick masonry	Same as in item 11-2(a)	6.91	Cu.m. @ 1619.75	11,186.18	
	For plaster	Same as in item 15-3	15.87	Sq.m. @ 127.19	2,018.92	
					15,473.02	
	Contractor's profit & overhead			20%	3,094.60	
	Total Labour rate				18,567.62	18567.60
	2. Material					
	Concrete 1:2:4	Rate as per item 5-17(a)1	0.80	Cu.m. @ 8338.90	6,662.95	
	Concrete 1:3:6	Rate as per item 5-13(c)	0.96	Cu.m. @ 7304.52	6,981.81	
	Brick masonry	Rate as per item 11-3(b)2	6.91	Cu.m. @ 6294.87	43,473.14	
	Plaster 1/2" thick	Rate as per item 15-3(b)	15.87	Sq.m. @ 97.36	1,545.52	
	Mild steel bars(G-40)		56.86	Kg. @ 88.00	5,003.54	
	18" Dia Concrete Cover along with Frame		1.00	No. @ 4500.00	4,500.00	
	C.I. foot rest		12.00	No. @ 80.00	960.00	
					69,126.95	
	Contractor's profit & overhead			20%	13,825.39	
	Total Composite rate				101,519.97	101519.95
Cm.	b) Extra for 18" thick masonry beyond 13'-6" upto 20 ft (4.1 m to 6.1 m) for 'D' type manholes including cost of extra foot rest at every 12" (300 mm) of depth					
	For 12" (30 cm.)depth					
	Brick masonry	21 x 1.5 x 1	31.50	Cu.ft. = 0.89	Cu.m.	
	Plastering	15 x 1	15.00	Sq.ft. = 1.39	Sq.m.	
	1. Labour					
	For brick masonry	Same as in item 11-2(a)	0.89	Cu.m. @ 1619.75	1,444.98	
	For plaster	Same as in item 15-3	1.39	Sq.m. @ 127.19	177.31	
					1,622.28	
	Contractor's profit & overhead			20%	324.46	
	Total Labour rate				64.89	64.90
	2. Material					
	Brick masonry	Rate as per item 11-3(b)2	0.89	Cu.m. @ 6294.87	5,615.65	
	Plaster 1/2" thick	Rate as per item 15-2	1.39	Sq.m. @ 49.12	68.47	
	C.I. foot rest		1.00	No. @ 80.00	80.00	
					5,764.12	
	Sundries			5%	288.21	
					6,052.33	
	Contractor's profit & overhead			20%	1,210.47	
	Total Composite rate				306.98	307.00
	c) Deduct for lesser depth than 13'-6"(4.1 m) for 'D' type manholes effecting 9" thick masonry, plastering and C.I. foot rest.					
	For 12" (30 cm.)depth					

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Brick masonry	13 x 0.75 x 1	9.75	Cu.ft. = 0.28	Cu.m.
Plastering	10 x 1	10.00	Sq.ft. = 0.93	Sq.m.
1. Labour				
For brick masonry	Same as in item 11-2(a)	0.28	Cu.m. @	447.25
For plaster	Same as in item 15-3	0.93	Sq.m. @	118.20
				<u>565.46</u>
Contractor's profit & overhead			20%	113.09
Total Labour rate				<u>22.62</u> 22.60
2. Material				
Brick masonry	Rate as per item 11-3(b)2	0.28	Cu.m. @ 6294.87	1,738.18
Plaster 1/2" thick	Rate as per item 15-2	0.93	Sq.m. @ 49.12	45.65
C.I. foot rest		1.00	No. @ 80.00	80.00
				<u>1,863.83</u>
Sundries			5%	93.19
				<u>1,957.02</u>
Contractor's profit & overhead			20%	391.40
Total Composite rate				<u>100.90</u> 100.90

Item No. 25-8

Each a) **Providing manhole type 'E' size 4'-6"x4' at bottom and 3'x2' at top (inside dimensions at both level) x 14.5 ft deep as per approved design and specifications complete for 18" to 24" dia. pipe deeper than 12' upto 20 ft depth with 20" dia (inside) Concrete cover 20" with frame fixed in 6" thick RCC 1:2:4 slab and 9" thick RCC slab and lintel for supporting 9" thick brick masonry upto 7'-6" depth from top and 18" thick masonry 7' including lintel (height from bottom) set in 1:3 cement sand mortar, 9" thick 1:3:6 cement concrete in foundation, 1:2:4 cement concrete in benching and 1/2" (13mm) thick cement plaster in 1:3 cement sand mortar, to all inner wall surfaces, channels and benching including providing and fixing C.I. foot rest at every 12" of depth and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff. The reinforcement for RCC shall be used at 5 lbs. per Cu.ft of concrete.**

Materials

RCC slab 1:2:4	4.5 x 3.5 x 0.5	7.88	Cu.ft. = 0.22	Cu.m.
Middle slab	7.5 x 7 x 0.58	30.45	Cu.ft. = 0.86	Cu.m.
				<u>1.09</u>
Less openings	3.14 x 0.83 x 0.83 x 0.5	1.08	Cu.ft. = 0.03	Cu.m.
	4.5 x 4 x 0.58	10.44	Cu.ft. = 0.30	Cu.m.
				<u>0.76</u>
Concrete 1:3:6	7.5 x 7 x 0.75	39.38	Cu.ft. = 1.12	Cu.m.
Benching concrete = 4.5 x 4 x 0.33		3.96	Cu.ft. = 0.11	Cu.m.
				<u>1.99</u>
Brick masonry				
Upto 7.5' depth	13 x 0.75 x 7.5	73.13	Cu.ft. = 2.07	Cu.m.
Above 7.5' to 13.5'	23 x 1.5 x 6.25	215.63	Cu.ft. = 6.11	Cu.m.
				<u>8.18</u>
M.S. bars	32.68 x 5 / 2.2046	74.12	Kg.	
Benching	4.5 x 3	18.00	Sq.ft. = 1.67	Sq.m.
Plastering	10 x 7.5	75.00	Sq.ft. = 6.97	Sq.m.
	17 x 6.25	106.25	Sq.ft. = 9.87	Sq.m.
Extra for channel		1.00	Sq.ft. = 0.09	Sq.m.
				<u>18.61</u>
C.I. foot rest		13.00	Nos.	
1. Labour				
For concrete	Same as in item 5-13(a)	1.99	Cu.m. @ 1292.38	2,567.12

Unit	Description				Component Cost	Unit Rate	
					(Rs)	(Rs)	
	For brick masonry	Same as in item 11-2(a)	8.18	Cu.m. @	1619.75	13,245.62	
	For plaster	Same as in item 15-3	18.61	Sq.m. @	127.19	2,367.04	
						18,179.78	
	Contractor's profit & overhead				20%	3,635.96	
	Total Labour rate					21,815.73	21815.75
	2. Material						
	Concrete 1:2:4	Rate as per item 5-17(a)1	0.87	Cu.m. @	8338.90	7,265.17	
	Concrete 1:3:6	Rate as per item 5-13(c)	1.12	Cu.m. @	7304.52	8,145.44	
	Brick masonry	Rate as per item 11-3(b)2	8.18	Cu.m. @	6294.87	51,476.77	
	Plaster 1/2" thick	Rate as per item 15-3(b)	18.61	Sq.m. @	97.36	1,812.00	
	Mild steel bars(G-40)		74.12	Kg. @	88.00	6,522.36	
	20" Dia Concrete Cover along with Frame		1.00	Each @	5500.00	5,500.00	
	C.I. foot rest		13.00	No. @	80.00	1,040.00	
						81,761.75	
	Contractor's profit & overhead				20%	16,352.35	
	Total Composite rate					119,929.83	119929.85
Cm.	b) Extra for 18" thick masonry required for extra depth beyond 14'- 6" upto 20 ft (4.42m to 6.1m) for 'E' type manholes including cost of extra foot rest at every 12" (300mm) of depth						
	For 12" (30 cm.)depth						
	Brick masonry	23 x 1.5 x 1	34.50	Cu.ft. =	0.98	Cu.m.	
	Plastering	17 x 1	17.00	Sq.ft. =	1.58	Sq.m.	
	1. Labour						
	For brick masonry	Same as in item 11-2(a)	0.98	Cu.m. @	1619.75	1,582.59	
	For plaster	Same as in item 15-3	1.58	Sq.m. @	127.19	200.95	
						1,783.54	
	Contractor's profit & overhead				20%	356.71	
	Total Labour rate					71.34	71.35
	2. Material						
	Brick masonry	Rate as per item 11-3(b)2	0.98	Cu.m. @	6294.87	6,150.47	
	Plaster 1/2" thick	Rate as per item 15-2	1.58	Sq.m. @	491.19	776.04	
	C.I. foot rest		1.00	No. @	80.00	80.00	
						7,006.51	
	Sundries				5%	350.33	
						7,356.84	
	Contractor's profit & overhead				20%	1,471.37	
	Total Composite rate					365.62	365.60
	c) Deduct for lesser depth than 14'-6" (4.42 m) for 'E' type manholes effecting 9" thick masonry, plastering and C.I. foot rest.						
	For 12" (30 cm.)depth						
	Total Labour rate	Same as in item 25-7 (c)				22.60	22.60
	Total Composite rate	Same as in item 25-7 (c)				100.90	100.90

Item No. 25-9-1

Sq.m. **Mixing and finishing 1:2:4 concrete benching for floor work in manhole chamber with 1/8" (3 mm) thick cement finish.**

Detail of cost of 10

Cement	1.12 / 35.31 x 1440	45.68	Kg.
1. Labour			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Mason	12.00	Hrs @ 125.00	1,500.00
	Labourer	12.00	Hrs @ 87.50	1,050.00
				<u>2,550.00</u>
	Contractor's profit & overhead		20%	510.00
	Total Labour rate			<u>306.00</u> 306.00
	2. Material			
	Cement OPC	45.68	Kg. @ 10.50	479.59
	Sundries		10%	47.96
	Water charges		1.5%	7.19
				<u>534.75</u>
	Contractor's profit & overhead		20%	106.95
	Total Composite rate			<u>370.17</u> 370.15
	Item No. 25-10-1			
Sq.m.	Restoration of brick pavement laid dry on edge and joint filled with sand laid over service line with 2" (50 mm) sand cushion underneath.			
	Total Labour rate	Same as in item 14-40-1		133.45 133.45
	Composite rate	As in item 14-40-1		909.50
	Total Composite rate	60% of item 14-40 -1		<u>545.70</u> 545.70
	Item No. 25-11			
Sq.m.	Restoration of flat brick pavement laid dry and joint filled with sand laid on service line with 2" (50 mm) sand cushion underneath.			
	Total Labour rate	Same as in item 14-41-1		107.95 107.95
	Composite rate	As in item 14-41-1		596.45
	Total Composite rate	60% of item 14-41 -1		<u>357.87</u> 357.85
	Item No. 25-12			
	Providing and fixing step iron or foot rest in manhole chambers including setting to correct lines and levels.			
Each	a) Angle iron 1.25" x 1.25" x 3/16" (32 mm x 32 mm x 5 mm)			
	Materials			
	Weight	2.17 x 0.75	1.63	Kg.
	1. Labour			
	For fixing			
	Mason	0.25	Hrs @ 125.00	31.25
	Labourer	0.50	Hrs @ 87.50	43.75
				<u>75.00</u>
	Contractor's profit & overhead		20%	15.00
	Total Labour rate			<u>90.00</u> 90.00
	2. Material			
	Angle iron	1.63	Kg. @ 74.00	120.44
	Manufacturing		50%	60.22
				<u>180.65</u>
	Contractor's profit & overhead		20%	36.13
	Total Composite rate			<u>306.78</u> 306.80
	b) C.I. foot rest			
	1. Labour			

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Labour rate	Same as in item 25-12(a)	90.00	90.00
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2. Material

C.I. foot rest	1.00	No.	@	80.00	80.00
Sundries				15%	12.00
					<u>92.00</u>

Contractor's profit & overhead				20%	18.40
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Total Composite rate					<u>200.40</u>	200.40
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Item No. 25-13-1

Each **Fixing manhole frame and cover in R.C.C. slab including carriage and cost of fixing material.**

1. Labour

Mason	1.25	Hrs	@	125.00	156.25
Labourer	1.25	Hrs	@	87.50	109.38
					<u>265.63</u>

Contractor's profit & overhead				20%	53.13
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Total Labour rate					<u>318.75</u>	318.75
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2. Material

Fixing materials				35%	92.97
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Contractor's profit & overhead				20%	18.59
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Total Composite rate					430.31	430.30
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Item No. 25-14-1

Each **Providing and fixing 22" dia. manhole cover in 3" (75 mm) thick RCC 1:2:4, with steel at 5 lbs per cu.ft of concrete with tee shaped C.I. frame of 20" clear inner dia. frame weighing 37.5 kg. including cost of fixing material.**

Materials

RCC 1:2:4 concrete	3.142 x11/12 x11/12 x3/12	0.66	Cu.ft.	=	0.02	Cu.m.
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M.S. bars	0.69 x 5 / 2.2046	1.56	Kg.		
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C.I. Frame		37.50	Kg.		
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1. Labour

Mason	2.50	Hrs	@	125.00	312.50
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Labourer	2.50	Hrs	@	87.50	218.75
					<u>531.25</u>

Contractor's profit & overhead				20%	106.25
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Total Labour rate					<u>637.50</u>	637.50
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2. Material

Concrete 1:2:4	Rate as per item 5-17(a)1	0.02	Cu.m.	@	8338.90	155.86
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Mild steel bars(G-40)		1.56	Kg.	@	88.00	137.71
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C.I. frame of any size		37.50	Kg.	@	110.00	4,125.00
						<u>4,418.57</u>

Contractor's profit & overhead				20%	883.71
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Total Composite rate					<u>5,939.78</u>	5939.80
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Item No. 25-15-1

Each **Providing and fixing 22 " dia. manhole cover in 6" (150 mm) thick RCC 1:2:4 slab with 5 lbs per Cu.ft steel with tee shaped C.I. frame of 20" (500mm) clear inner dia. frame weighing 37.50 kg. including cost of fixing material.**

Materials

RCC 1:2:4 concrete	3.142 x11/12 x11/12 x6/12	1.32	Cu.ft.	=	0.04	Cu.m.
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M.S. bars	1.39 x 5 / 2.2046	3.15	Kg.		
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C.I. Frame		37.50	Kg.		
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
1. Labour				
Mason		3.00	Hrs @ 125.00	375.00
Labourer		3.00	Hrs @ 87.50	262.50
				<u>637.50</u>
Fixing charges			25%	159.38
				<u>796.88</u>
Contractor's profit & overhead			20%	159.38
Total Labour rate				<u>956.25</u> 956.25
2. Material				
Concrete 1:2:4	Rate as per item 5-17(a)1	0.04	Cu.m. @ 8338.90	311.71
Mild steel bars(G-40)		3.15	Kg. @ 88.00	277.42
C.I. frame of any size		37.50	Kg. @ 110.00	4,125.00
				<u>4,714.13</u>
Contractor's profit & overhead			20%	942.83
Total Composite rate				<u>6,613.21</u> 6613.20
Item No. 25-16-1				
Each	Providing and fixing 22 " (550 mm) dia. manhole cover in 6" (150mm) thick RCC 1:2:4 slab with 5 lbs per Cu.ft steel with 3" x 3" x 3/8" angle iron frame of 20" (500mm) clear inner dia. weighing 15.5 kg. including cost of fixing material.			
Materials				
R.C.C. 1:2:4	Same as per item 25-15	0.04	Cu.m.	
M.S. Bars	Same as per item 25-16	3.15	Kg.	
Angle iron frame		15.50	Kg.	
1. Labour				
Mason		3.00	Hrs @ 125.00	375.00
Black smith		1.00	Hrs @ 112.00	112.00
Labourer		3.00	Hrs @ 87.50	262.50
				<u>749.50</u>
Fixing charges			25%	187.38
				<u>936.88</u>
Contractor's profit & overhead			20%	187.38
Total Labour rate				<u>1,124.25</u> 1124.25
2. Material				
Concrete 1:2:4	Rate as per item 5-17(a)1	0.04	Cu.m. @ 8338.90	311.71
Mild steel bars(G-40)		3.10	Kg. @ 88.00	272.80
Angle iron		15.50	Kg. @ 74.00	1,147.00
				<u>1,731.51</u>
Contractor's profit & overhead			20%	346.30
Total Composite rate				<u>3,202.07</u> 3202.05

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 25-17-1

Cu.m. Desilting of disposal work collecting tank, including removal of sludge upto 300ft (90m)

1. Labour

Labourer	2.00	Hrs	@	87.50	175.00
Contractor's profit & overhead				20%	35.00
Total Labour rate					<u>210.00</u>

210.00

2. Equipment

Hire charges of					
Pump including POL with driver	0.25	Hrs	@	300.00	75.00
Contractor's profit & overhead				20%	15.00
Total Composite rate					<u>300.00</u>

300.00**Item No. 25-18**

Providing and fixing C.I. ventilating shaft with all specials required such as sockets, flanges, radial tees including cost of painting two coats of white zinc paint with pigment of approved shade, excavation. Concrete work shall be paid for separately.

Kg. a) 6" (150 mm) inner dia.

i) 18 ft. (5.5 m.) long

Detail of cost for 100 kg.

1. Labour

Pipe fitter	1.75	Hrs	@	125.00	218.75
Labourer	1.75	Hrs	@	87.50	153.13
					<u>371.88</u>
Contractor's profit & overhead				20%	74.38
Total Labour rate					<u>4.46</u>

4.45

2. Material

C.I. specials	100.00	Kg.	@	93.75	9,375.00
Painting				10%	937.50
					<u>10,312.50</u>
Contractor's profit & overhead				20%	2,062.50
Total Composite rate					<u>128.21</u>

128.20

ii) 24 ft. (7.3 m.) long

1. Labour

Pipe fitter	2.00	Hrs	@	125.00	250.00
Labourer	2.00	Hrs	@	87.50	175.00
					<u>425.00</u>
Contractor's profit & overhead				20%	85.00
Total Labour rate					<u>5.10</u>

5.10

2. Material

Same as in item 25-18(a)1					10,312.50
Contractor's profit & overhead				20%	2,062.50
Total Composite rate					<u>128.85</u>

128.85

iii) 30 ft. (9.15 m.) long

1. Labour

Pipe fitter	2.50	Hrs	@	125.00	312.50
Labourer	2.50	Hrs	@	87.50	218.75
					<u>531.25</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	106.25	
	Total Labour rate		6.38	6.40
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		130.13	130.15
iv)	36 ft. (11 m.) long			
	1. Labour			
	Pipe fitter	3.00 Hrs @	125.00	375.00
	Labourer	3.00 Hrs @	87.50	262.50
			637.50	
	Contractor's profit & overhead	20%	127.50	
	Total Labour rate		7.65	7.65
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		131.40	131.40
Kg.	b) 9" 225 mm inner dia.			
	i) 18 ft. (5.5 m.) long			
	Detail of cost for 100 kg.			
	1. Labour			
	Total Labour rate	Same as in item 25-18(a)2	5.10	5.10
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		128.85	128.85
	ii) 24 ft. (7.3 m.) long			
	1. Labour			
	Total Labour rate	Same as in item 25-18(a)3	6.40	6.40
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		130.15	130.15
	iii) 30 ft. (9.15 m.) long			
	1. Labour			
	Total Labour rate	Same as in item 25-18(a)4	7.65	7.65
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		131.40	131.40
	iv) 36 ft. (11 m.) long			
	1. Labour			
	Pipe fitter	3.25 Hrs @	125.00	406.25
	Labourer	3.25 Hrs @	87.50	284.38
			690.63	
	Contractor's profit & overhead	20%	138.13	

Unit	Description	Component Cost		Unit Rate
		(Rs)		(Rs)
	Total Labour rate		8.29	8.30
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		<u>132.04</u>	132.05
Kg.	c) 12" (300 mm) inner dia.			
	i) 18 ft. (5.5 m.) long			
	Detail of cost for 100 kg.			
	1. Labour			
	Total Labour rate	Same as in item 25-18(a)3	6.40	6.40
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		<u>130.15</u>	130.15
	ii) 24 ft. (7.3 m.) long			
	1. Labour			
	Total Labour rate	Same as in item 25-18(a)4	7.65	7.65
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		<u>131.40</u>	131.40
	iii) 30 ft. (9.15 m.) long			
	1. Labour			
	Total Labour rate	Same as in item 25-18(b)4	8.30	8.30
	2. Material			
	Same as in item 25-18(a)1		10,312.50	
	Contractor's profit & overhead	20%	2,062.50	
	Total Composite rate		<u>132.05</u>	132.05
	Item No. 25-19			
R.M.	Clearing of silt in 10 ft (3m.) dia wells and removal of slush outside the compound.			
	a) Upto 10 ft (3 m.) depth of slush			
	Detail of cost of 3 m.			
	1. Labour			
	Labourer	84.45	Hrs @ 87.50	7,389.38
	Contractor's profit & overhead		20%	1,477.88
	Total Labour rate			<u>2,955.75</u>
				2955.75
R.M.	b) Beyond 10 ft (3 m.) depth of slush			
	1. Labour			
	Labourer	100.00	Hrs @ 87.50	8,750.00
	Contractor's profit & overhead		20%	1,750.00
	Total Labour rate			<u>3,500.00</u>
				3500.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 25-20				
R.M.	Providing and Installing uPVC pipe IIL, Dadex or equivalent make registered with PSQCA in sewerlines and/or laying, cutting, jointing, testing including all specials in pipe lines in trenches.			
a)	Class B			
i)	3" (75 mm) dia			
	1. Labour			
	Pipe layer	0.10	Hrs @ 125.00	12.50
	Labourer	0.20	Hrs @ 87.50	17.50
				<u>30.00</u>
	Contractor's profit & overhead		20%	6.00
	Total Labour rate			<u>36.00</u> 36
	2. Material			
	U-PVC 75 mm dia	1.00	R.M. @ 314.40	314.40
	Specials		30%	94.32
	Jointing material		2%	<u>8.17</u>
				416.89
	Contractor's profit & overhead		20%	83.38
	Total Composite rate			<u>536.27</u> 536
ii)	4" (100 mm) dia			
	1. Labour			
	Pipe layer	0.10	Hrs @ 125.00	12.50
	Labourer	0.20	Hrs @ 87.50	17.50
				<u>30.00</u>
	Contractor's profit & overhead		20%	6.00
	Total Labour rate			<u>36.00</u> 36
	2. Material			
	U-PVC 100 mm dia	1.00	R.M. @ 477.60	477.60
	Specials		30%	143.28
	Jointing material		2%	<u>12.42</u>
				633.30
	Contractor's profit & overhead		20%	126.66
	Total Composite rate			<u>795.96</u> 796
iii)	5" (125 mm) dia			
	1. Labour			
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				<u>45.00</u>
	Contractor's profit & overhead		20%	9.00
	Total Labour rate			<u>54.00</u> 54
	2. Material			
	U-PVC 125 mm dia	1.00	R.M. @ 668.80	668.80
	Specials		30%	200.64
	Jointing material		2%	<u>17.39</u>
				886.83
	Contractor's profit & overhead		20%	177.37
	Total Composite rate			<u>1,118.19</u> 1,118
iv)	6" (150 mm) dia			
	1. Labour			
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				<u>45.00</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	9.00	
	Total Labour rate		54.00	54
	2. Material			
	U-PVC 150 mm dia	1.00	R.M. @ 936.80	936.80
	Specialls		30%	281.04
	Jointing material		2%	24.36
				1,242.20
	Contractor's profit & overhead	20%	248.44	
	Total Composite rate		1,544.64	1,545
	v) 8" (200 mm) dia			
	1. Labour			
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				45.00
	Contractor's profit & overhead	20%	9.00	
	Total Labour rate		54.00	54
	2. Material			
	U-PVC 200 mm dia	1.00	R.M. @ 1430.40	1,430.40
	Specialls		30%	429.12
	Jointing material		2%	37.19
				1,896.71
	Contractor's profit & overhead	20%	379.34	
	Total Composite rate		2,330.05	2,330
	vi) 10" (250 mm) dia			
	1. Labour			
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				60.00
	Contractor's profit & overhead	20%	12.00	
	Total Labour rate		72.00	72
	2. Material			
	U-PVC 250 mm dia	1.00	R.M. @ 2309.60	2,309.60
	Specialls		30%	692.88
	Jointing material		2%	60.05
				3,062.53
	Contractor's profit & overhead	20%	612.51	
	Total Composite rate		3,747.04	3,747
	vii) 12" (300 mm) dia			
	1. Labour			
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				60.00
	Contractor's profit & overhead	20%	12.00	
	Total Labour rate		72.00	72
	2. Material			
	U-PVC 300 mm dia	1.00	R.M. @ 3207.20	3,207.20
	Specialls		30%	962.16
	Jointing material		2%	83.39
				4,252.75
	Contractor's profit & overhead	20%	850.55	
	Total Composite rate		5,175.30	5,175
	viii) 14" (350 mm) dia			
	1. Labour			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				60.00
	Contractor's profit & overhead		20%	12.00
	Total Labour rate			72.00
				72
	2. Material			
	U-PVC 350 mm dia	1.00	R.M. @ 4068.00	4,068.00
	Specials		30%	1,220.40
	Jointing material		2%	105.77
				5,394.17
	Contractor's profit & overhead		20%	1,078.83
	Total Composite rate			6,545.00
				6,545
	ix) 16" (400 mm) dia			
	1. Labour			
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				90.00
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			108.00
				108
	2. Material			
	U-PVC 400 mm dia	1.00	R.M. @ 5459.20	5,459.20
	Specials		30%	1,637.76
	Jointing material		2%	141.94
				7,238.90
	Contractor's profit & overhead		20%	1,447.78
	Total Composite rate			8,794.68
				8,795
	x) 18" (450 mm) dia			
	1. Labour			
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				90.00
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			108.00
				108
	2. Material			
	U-PVC 450 mm dia	1.00	R.M. @ 8556.00	8,556.00
	Specials		30%	2,566.80
	Jointing material		2%	222.46
				11,345.26
	Contractor's profit & overhead		20%	2,269.05
	Total Composite rate			13,722.31
				13,722
	xi) 20" (500 mm) dia			
	1. Labour			
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				90.00
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			108.00
				108
	2. Material			
	U-PVC 500 mm dia	1.00	R.M. @ 10760.80	10,760.80
	Specials		30%	3,228.24
	Jointing material		2%	279.78
				14,268.82
	Contractor's profit & overhead		20%	2,853.76
	Total Composite rate			17,230.58
				17,231

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
xii) 22" (550 mm) dia				
1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50
	Labourer	1.00	Hrs @ 87.50	87.50
				<u>150.00</u>
	Contractor's profit & overhead		20%	30.00
	Total Labour rate			<u>180.00</u> 180
2. Material				
	U-PVC 550 mm dia	1.00	R.M. @ 13648.00	13,648.00
	Specialls		30%	4,094.40
	Jointing material		2%	354.85
				<u>18,097.25</u>
	Contractor's profit & overhead		20%	3,619.45
	Total Composite rate			<u>21,896.70</u> 21,897
xiii) 24" (600 mm) dia				
1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50
	Labourer	1.00	Hrs @ 87.50	87.50
				<u>150.00</u>
	Contractor's profit & overhead		20%	30.00
	Total Labour rate			<u>180.00</u> 180
2. Material				
	U-PVC 600 mm dia	1.00	R.M. @ 16797.60	16,797.60
	Specialls		30%	5,039.28
	Jointing material		2%	436.74
				<u>22,273.62</u>
	Contractor's profit & overhead		20%	4,454.72
	Total Composite rate			<u>26,908.34</u> 26,908
b) Class C				
i) 3" (75 mm) dia				
1. Labour				
	Pipe layer	0.10	Hrs @ 125.00	12.50
	Labourer	0.20	Hrs @ 87.50	17.50
				<u>30.00</u>
	Contractor's profit & overhead		20%	6.00
	Total Labour rate			<u>36.00</u> 36
2. Material				
	U-PVC 75 mm dia	1.00	R.M. @ 377.95	377.95
	Specialls		30%	113.39
	Jointing material		2%	9.83
				<u>501.16</u>
	Contractor's profit & overhead		20%	100.23
	Total Composite rate			<u>637.40</u> 637
ii) 4" (100 mm) dia				
1. Labour				
	Pipe layer	0.10	Hrs @ 125.00	12.50
	Labourer	0.20	Hrs @ 87.50	17.50
				<u>30.00</u>
	Contractor's profit & overhead		20%	6.00
	Total Labour rate			<u>36.00</u> 36
2. Material				
	U-PVC 100 mm dia	1.00	R.M. @ 616.79	616.79
	Specialls		30%	185.04
	Jointing material		2%	16.04
				<u>817.87</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	163.57	
	Total Composite rate		1,017.44	1,017
iii) 5" (125 mm) dia				
1. Labour				
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				<u>45.00</u>
	Contractor's profit & overhead	20%	9.00	
	Total Labour rate		54.00	54
2. Material				
	U-PVC 125 mm dia	1.00	R.M. @ 934.37	934.37
	Specials		30%	280.31
	Jointing material		2%	24.29
				<u>1,238.97</u>
	Contractor's profit & overhead	20%	247.79	
	Total Composite rate		1,540.77	1,541
iv) 6" (150 mm) dia				
1. Labour				
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				<u>45.00</u>
	Contractor's profit & overhead	20%	9.00	
	Total Labour rate		54.00	54
2. Material				
	U-PVC 150 mm dia	1.00	R.M. @ 1351.20	1,351.20
	Specials		30%	405.36
	Jointing material		2%	35.13
				<u>1,791.69</u>
	Contractor's profit & overhead	20%	358.34	
	Total Composite rate		2,204.03	2,204
v) 8" (200 mm) dia				
1. Labour				
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				<u>45.00</u>
	Contractor's profit & overhead	20%	9.00	
	Total Labour rate		54.00	54
2. Material				
	U-PVC 200 mm dia	1.00	R.M. @ 2068.22	2,068.22
	Specials		30%	620.46
	Jointing material		2%	53.77
				<u>2,742.45</u>
	Contractor's profit & overhead	20%	548.49	
	Total Composite rate		3,344.95	3,345
vi) 10" (250 mm) dia				
1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				<u>60.00</u>
	Contractor's profit & overhead	20%	12.00	
	Total Labour rate		72.00	72
2. Material				
	U-PVC 250 mm dia	1.00	R.M. @ 3359.20	3,359.20

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Specialls	30%	1,007.76	
	Jointing material	2%	87.34	
			<u>4,454.30</u>	
	Contractor's profit & overhead	20%	890.86	
	Total Composite rate		<u>5,417.16</u>	5,417
vii) 12" (300 mm) dia				
1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				<u>60.00</u>
	Contractor's profit & overhead	20%	12.00	
	Total Labour rate		<u>72.00</u>	72
2. Material				
	U-PVC 300 mm dia	1.00	R.M. @ 4724.00	4,724.00
	Specialls	30%	1,417.20	
	Jointing material	2%	122.82	
			<u>6,264.02</u>	
	Contractor's profit & overhead	20%	1,252.80	
	Total Composite rate		<u>7,588.83</u>	7,589
viii) 14" (350 mm) dia				
1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				<u>60.00</u>
	Contractor's profit & overhead	20%	12.00	
	Total Labour rate		<u>72.00</u>	72
2. Material				
	U-PVC 350 mm dia	1.00	R.M. @ 5682.34	5,682.34
	Specialls	30%	1,704.70	
	Jointing material	2%	147.74	
			<u>7,534.79</u>	
	Contractor's profit & overhead	20%	1,506.96	
	Total Composite rate		<u>9,113.75</u>	9,114
ix) 16" (400 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				<u>90.00</u>
	Contractor's profit & overhead	20%	18.00	
	Total Labour rate		<u>108.00</u>	108
2. Material				
	U-PVC 400 mm dia	1.00	R.M. @ 7873.60	7,873.60
	Specialls	30%	2,362.08	
	Jointing material	2%	204.71	
			<u>10,440.39</u>	
	Contractor's profit & overhead	20%	2,088.08	
	Total Composite rate		<u>12,636.47</u>	12,636
x) 18" (450 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				<u>90.00</u>
	Contractor's profit & overhead	20%	18.00	
	Total Labour rate		<u>108.00</u>	108

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
2. Material				
	U-PVC 450 mm dia	1.00	R.M. @ 13385.60	13,385.60
	Specials		30%	4,015.68
	Jointing material		2%	348.03
				<u>17,749.31</u>
	Contractor's profit & overhead		20%	3,549.86
	Total Composite rate			<u>21,407.17</u> 21,407
xi) 20" (500 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				<u>90.00</u>
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			<u>108.00</u> 108
2. Material				
	U-PVC 500 mm dia	1.00	R.M. @ 16666.40	16,666.40
	Specials		30%	4,999.92
	Jointing material		2%	433.33
				<u>22,099.65</u>
	Contractor's profit & overhead		20%	4,419.93
	Total Composite rate			<u>26,627.58</u> 26,628
xii) 22" (550 mm) dia				
1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50
	Labourer	1.00	Hrs @ 87.50	87.50
				<u>150.00</u>
	Contractor's profit & overhead		20%	30.00
	Total Labour rate			<u>180.00</u> 180
2. Material				
	U-PVC 550 mm dia	1.00	R.M. @ 20149.36	20,149.36
	Specials		30%	6,044.81
	Jointing material		2%	523.88
				<u>26,718.05</u>
	Contractor's profit & overhead		20%	5,343.61
	Total Composite rate			<u>32,241.66</u> 32,242
xiii) 24" (600 mm) dia				
1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50
	Labourer	1.00	Hrs @ 87.50	87.50
				<u>150.00</u>
	Contractor's profit & overhead		20%	30.00
	Total Labour rate			<u>180.00</u> 180
2. Material				
	U-PVC 600 mm dia	1.00	R.M. @ 23965.58	23,965.58
	Specials		30%	7,189.68
	Jointing material		2%	623.11
				<u>31,778.36</u>

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	6,355.67	
	Total Composite rate		38,314.04	38,314
c) Class D				
i) 3" (75 mm) dia				
1. Labour				
	Pipe layer	0.10	Hrs @ 125.00	12.50
	Labourer	0.20	Hrs @ 87.50	17.50
				<u>30.00</u>
	Contractor's profit & overhead	20%	6.00	
	Total Labour rate		36.00	36
2. Material				
	U-PVC 75 mm dia	1.00	R.M. @ 328.08	328.08
	Specials		30%	98.42
	Jointing material		2%	<u>8.53</u>
				435.03
	Contractor's profit & overhead	20%	87.01	
	Total Composite rate		558.04	558
ii) 4" (100 mm) dia				
1. Labour				
	Pipe layer	0.10	Hrs @ 125.00	12.50
	Labourer	0.20	Hrs @ 87.50	17.50
				<u>30.00</u>
	Contractor's profit & overhead	20%	6.00	
	Total Labour rate		36.00	36
2. Material				
	U-PVC 100 mm dia	1.00	R.M. @ 488.18	488.18
	Specials		30%	146.46
	Jointing material		2%	<u>12.69</u>
				647.33
	Contractor's profit & overhead	20%	129.47	
	Total Composite rate		812.80	813
iii) 5" (125 mm) dia				
1. Labour				
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				<u>45.00</u>
	Contractor's profit & overhead	20%	9.00	
	Total Labour rate		54.00	54
2. Material				
	U-PVC 125 mm dia	1.00	R.M. @ 813.64	813.64
	Specials		30%	244.09
	Jointing material		2%	<u>21.15</u>
				1,078.89
	Contractor's profit & overhead	20%	215.78	
	Total Composite rate		1,348.66	1,349

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
iv) 6" (150 mm) dia						
1. Labour						
	Pipe layer	0.15	Hrs @	125.00	18.75	
	Labourer	0.30	Hrs @	87.50	26.25	
					<u>45.00</u>	
	Contractor's profit & overhead			20%	9.00	
	Total Labour rate				<u>54.00</u>	54
2. Material						
	U-PVC 150 mm dia	1.00	R.M. @	1209.96	1,209.96	
	Specialls			30%	362.99	
	Jointing material			2%	<u>31.46</u>	
					1,604.41	
	Contractor's profit & overhead			20%	<u>320.88</u>	
	Total Composite rate				<u>1,979.29</u>	1,979
v) 8" (200 mm) dia						
1. Labour						
	Pipe layer	0.15	Hrs @	125.00	18.75	
	Labourer	0.30	Hrs @	87.50	26.25	
					<u>45.00</u>	
	Contractor's profit & overhead			20%	9.00	
	Total Labour rate				<u>54.00</u>	54
2. Material						
	U-PVC 200 mm dia	1.00	R.M. @	1748.01	1,748.01	
	Specialls			30%	524.40	
	Jointing material			2%	<u>45.45</u>	
					2,317.86	
	Contractor's profit & overhead			20%	<u>463.57</u>	
	Total Composite rate				<u>2,835.43</u>	2,835
vi) 10" (250 mm) dia						
1. Labour						
	Pipe layer	0.20	Hrs @	125.00	25.00	
	Labourer	0.40	Hrs @	87.50	35.00	
					<u>60.00</u>	
	Contractor's profit & overhead			20%	12.00	
	Total Labour rate				<u>72.00</u>	72
2. Material						
	U-PVC 250 mm dia	1.00	R.M. @	2690.26	2,690.26	
	Specialls			30%	807.08	
	Jointing material			2%	<u>69.95</u>	
					3,567.28	
	Contractor's profit & overhead			20%	<u>713.46</u>	
	Total Composite rate				<u>4,352.74</u>	4,353

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
vii) 12" (300 mm) dia				
1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				60.00
	Contractor's profit & overhead		20%	12.00
	Total Labour rate			72.00
				72
2. Material				
	U-PVC 300 mm dia	1.00	R.M. @ 4330.66	4,330.66
	Specials		30%	1,299.20
	Jointing material		2%	112.60
				5,742.45
	Contractor's profit & overhead		20%	1,148.49
	Total Composite rate			6,962.94
				6,963
viii) 14" (350 mm) dia				
1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				60.00
	Contractor's profit & overhead		20%	12.00
	Total Labour rate			72.00
				72
2. Material				
	U-PVC 350 mm dia	1.00	R.M. @ 6561.60	6,561.60
	Specials		30%	1,968.48
	Jointing material		2%	170.60
				8,700.68
	Contractor's profit & overhead		20%	1,740.14
	Total Composite rate			10,512.82
				10,513
ix) 16" (400 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				90.00
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			108.00
				108
2. Material				
	U-PVC 400 mm dia	1.00	R.M. @ 7839.20	7,839.20
	Specials		30%	2,351.76
	Jointing material		2%	203.82
				10,394.78
	Contractor's profit & overhead		20%	2,078.96
	Total Composite rate			12,581.74
				12,582

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
x) 18" (450 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				90.00
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			108.00
2. Material				
	U-PVC 450 mm dia	1.00	R.M. @ 11285.95	11,285.95
	Specialls		30%	3,385.79
	Jointing material		2%	293.43
				14,965.17
	Contractor's profit & overhead		20%	2,993.03
	Total Composite rate			18,066.21
xii) 20" (500 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				90.00
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			108.00
2. Material				
	U-PVC 500 mm dia	1.00	R.M. @ 18109.60	18,109.60
	Specialls		30%	5,432.88
	Jointing material		2%	470.85
				24,013.33
	Contractor's profit & overhead		20%	4,802.67
	Total Composite rate			28,924.00
xii) 22" (550 mm) dia				
1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50
	Labourer	1.00	Hrs @ 87.50	87.50
				150.00
	Contractor's profit & overhead		20%	30.00
	Total Labour rate			180.00
2. Material				
	U-PVC 550 mm dia	1.00	R.M. @ 26000.00	26,000.00
	Specialls		30%	7,800.00
	Jointing material		2%	676.00
				34,476.00
	Contractor's profit & overhead		20%	6,895.20
	Total Composite rate			41,551.20
xiii) 24" (600 mm) dia				
1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50
	Labourer	1.00	Hrs @ 87.50	87.50
				150.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	30.00	
	Total Labour rate		180.00	180
	2. Material			
	U-PVC 600 mm dia	1.00	R.M. @ 38848.00	38,848.00
	Specialls		30%	11,654.40
	Jointing material		2%	1,010.05
				51,512.45
	Contractor's profit & overhead	20%	10,302.49	
	Total Composite rate		61,994.94	61,995
D)	Class E			
i)	3" (75 mm) dia			
	1. Labour			
	Pipe layer	0.10	Hrs @ 125.00	12.50
	Labourer	0.20	Hrs @ 87.50	17.50
				30.00
	Contractor's profit & overhead	20%	6.00	
	Total Labour rate		36.00	36
	2. Material			
	U-PVC 75 mm dia	1.00	R.M. @ 603.66	603.66
	Specialls		30%	181.10
	Jointing material		2%	15.70
				800.46
	Contractor's profit & overhead	20%	160.09	
	Total Composite rate		996.55	997
ii)	4" (100 mm) dia			
	1. Labour			
	Pipe layer	0.10	Hrs @ 125.00	12.50
	Labourer	0.20	Hrs @ 87.50	17.50
				30.00
	Contractor's profit & overhead	20%	6.00	
	Total Labour rate		36.00	36
	2. Material			
	U-PVC 100 mm dia	1.00	R.M. @ 984.24	984.24
	Specialls		30%	295.27
	Jointing material		2%	25.59
				1,305.10
	Contractor's profit & overhead	20%	261.02	
	Total Composite rate		1,602.12	1,602
iii)	5" (125 mm) dia			
	1. Labour			
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				45.00
	Contractor's profit & overhead	20%	9.00	
	Total Labour rate		54.00	54
	2. Material			
	U-PVC 125 mm dia	1.00	R.M. @ 1509.17	1,509.17
	Specialls		30%	452.75
	Jointing material		2%	39.24
				2,001.16
	Contractor's profit & overhead	20%	400.23	
	Total Composite rate		2,455.39	2,455
iv)	6" (150 mm) dia			
	1. Labour			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				45.00
	Contractor's profit & overhead		20%	9.00
	Total Labour rate			54.00
				54
	2. Material			
	U-PVC 150 mm dia	1.00	R.M. @ 2120.71	2,120.71
	Specials		30%	636.21
	Jointing material		2%	55.14
				2,812.06
	Contractor's profit & overhead		20%	562.41
	Total Composite rate			3,428.48
				3,429
	v) 8" (200 mm) dia			
	1. Labour			
	Pipe layer	0.15	Hrs @ 125.00	18.75
	Labourer	0.30	Hrs @ 87.50	26.25
				45.00
	Contractor's profit & overhead		20%	9.00
	Total Labour rate			54.00
				54
	2. Material			
	U-PVC 200 mm dia	1.00	R.M. @ 3233.56	3,233.56
	Specials		30%	970.07
	Jointing material		2%	84.07
				4,287.70
	Contractor's profit & overhead		20%	857.54
	Total Composite rate			5,199.24
				5,199
	vi) 10" (250 mm) dia			
	1. Labour			
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				60.00
	Contractor's profit & overhead		20%	12.00
	Total Labour rate			72.00
				72
	2. Material			
	U-PVC 250 mm dia	1.00	R.M. @ 5721.71	5,721.71
	Specials		30%	1,716.51
	Jointing material		2%	148.76
				7,586.99
	Contractor's profit & overhead		20%	1,517.40
	Total Composite rate			9,176.39
				9,176
	vii) 12" (300 mm) dia			
	1. Labour			
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				60.00
	Contractor's profit & overhead		20%	12.00
	Total Labour rate			72.00
				72
	2. Material			
	U-PVC 300 mm dia	1.00	R.M. @ 8005.15	8,005.15
	Specials		30%	2,401.55
	Jointing material		2%	208.13
				10,614.83
	Contractor's profit & overhead		20%	2,122.97
	Total Composite rate			12,809.80
				12,810

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
viii) 14" (350 mm) dia				
1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00
	Labourer	0.40	Hrs @ 87.50	35.00
				<u>60.00</u>
	Contractor's profit & overhead		20%	12.00
	Total Labour rate			<u>72.00</u> 72
2. Material				
	U-PVC 350 mm dia	1.00	R.M. @ 10495.94	10,495.94
	Specials		30%	3,148.78
	Jointing material		2%	272.89
				<u>13,917.61</u>
	Contractor's profit & overhead		20%	2,783.52
	Total Composite rate			<u>16,773.13</u> 16,773
ix) 16" (400 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				<u>90.00</u>
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			<u>108.00</u> 108
2. Material				
	U-PVC 400 mm dia	1.00	R.M. @ 15222.40	15,222.40
	Specials		30%	4,566.72
	Jointing material		2%	395.78
				<u>20,184.90</u>
	Contractor's profit & overhead		20%	4,036.98
	Total Composite rate			<u>24,329.88</u> 24,330
x) 18" (450 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				<u>90.00</u>
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			<u>108.00</u> 108
2. Material				
	U-PVC 450 mm dia	1.00	R.M. @ 23160.00	23,160.00
	Specials		30%	6,948.00
	Jointing material		2%	602.16
				<u>30,710.16</u>
	Contractor's profit & overhead		20%	6,142.03
	Total Composite rate			<u>36,960.19</u> 36,960
xi) 20" (500 mm) dia				
1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50
	Labourer	0.60	Hrs @ 87.50	52.50
				<u>90.00</u>
	Contractor's profit & overhead		20%	18.00
	Total Labour rate			<u>108.00</u> 108
2. Material				
	U-PVC 500 mm dia	1.00	R.M. @ 31160.00	31,160.00
	Specials		30%	9,348.00
	Jointing material		2%	810.16
				<u>41,318.16</u>

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	
	Contractor's profit & overhead	20%	8,263.63		
	Total Composite rate		49,689.79	49,690	
xii) 22" (550 mm) dia					
1. Labour					
	Pipe layer	0.50 Hrs @	125.00	62.50	
	Labourer	1.00 Hrs @	87.50	87.50	
				150.00	
	Contractor's profit & overhead	20%	30.00		
	Total Labour rate		180.00	180	
2. Material					
	U-PVC 550 mm dia	1.00 R.M. @	41600.00	41,600.00	
	Specials		30%	12,480.00	
	Jointing material		2%	1,081.60	
				55,161.60	
	Contractor's profit & overhead	20%	11,032.32		
	Total Composite rate		66,373.92	66,374	
xiii) 24" (600 mm) dia					
1. Labour					
	Pipe layer	0.50 Hrs @	125.00	62.50	
	Labourer	1.00 Hrs @	87.50	87.50	
				150.00	
	Contractor's profit & overhead	20%	30.00		
	Total Labour rate		180.00	180	
2. Material					
	U-PVC 600 mm dia	1.00 R.M. @	52000.00	52,000.00	
	Specials		30%	15,600.00	
	Jointing material		2%	1,352.00	
				68,952.00	
	Contractor's profit & overhead	20%	13,790.40		
	Total Composite rate		82,922.40	82,922	
Item No. 25-21					
Each a)	Providing manhole type 'A' size 24" x 18" (inside dimensions) as per approved design and specifications complete for 4" to 12" dia pipes upto 4 ft. (1.2 m) depth with 16" dia. Concrete cover and frame fixed in 4" thick RCC 1:2:4 slab (with 5 lbs per Cu.ft. or 80 kg/Cu.m of steel), 6" (150 mm) thick 1:2:4 cement concrete, 6" thick 1:3:6 cement concrete in foundation, 4" av. thickness 1:2:4 cement concrete in benching and benching including making requisite number of main and branch channels but excluding the cost of excavation, back filling and disposal of excavated stuff.			152.40	
	Concrete 1:2:4	3.5 x 3 x 0.33	3.47 Cu.ft. =	0.10 Cu.m.	
	Concrete 1:3:6	3.5 x 3 x 0.5	5.25 Cu.ft. =	0.15 Cu.m.	
	Benching concrete		1.00 Cu.ft. =	0.03 Cu.m.	
				0.28 Cu.m.	
	Concrete 1:2:4	10 x 0.5 x 2	10.00 Cu.ft. =	0.28 Cu.m.	
	M.S. bars	14.47 x 5 / 2.2046	32.82 Kg.		
	Benching	2 x 1.5	3.00 Sq.ft. =	0.28 Sq.m.	
				0.28 Sq.m.	
1. Labour					
	For concrete	Same as in item 5-13(a)	0.56 Cu.m. @	1292.38	723.73
					723.73
	Contractor's profit & overhead		20%		144.75
	Total Labour rate			868.48	868.50
2. Material					
	Concrete 1:2:4	Rate as per item 5-17(a)1	0.10 Cu.m. @	8338.90	818.30
	Concrete 1:3:6	Rate as per item 5-13(c)	0.15 Cu.m. @	7304.52	1,086.06

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	
	Concrete 1:2:4	Rate as per item 5-17(a)1	0.28	Cu.m. @ 3359.07	940.54
	Flooring 1:2:4	Rate as per item 14-2(b)1	0.28	Sq.m. @ 195.77	54.58
	Mild steel bars(G-40)		32.82	Kg. @ 88.00	2,887.96
	16" Dia Concrete Cover along with Frame		1.00	Nos. @ 3500.00	3,500.00
					<u>9,287.44</u>
	Sundries			5%	464.37
					<u>9,751.82</u>
	Contractor's profit & overhead			20%	1,950.36
	Total Composite rate				<u>12,570.66</u>
					12570.65

Cm. b) Extra for depth beyond 24" (600 m) and upto 48" (1.2 m) for 'A' type manholes

For 12" (30 cm.)depth

	Concrete 1:2:4	10 x 0.5 x 1	5.00	Cu.ft. = 0.14	Cu.m.	
	1. Labour					
	For concrete	Same as in item 5-13(a)	0.14	Cu.m. @ 1292.38	183.00	
					183.00	
	Contractor's profit & overhead			20%	36.60	
	Total Labour rate				<u>7.32</u>	7.30
	2. Material					
	Concrete 1:2:4	Rate as per item 5-17(a)1	0.14	Cu.m. @ 8338.90	1,180.81	
					1,180.81	
	Sundries			5%	59.04	
					<u>1,239.85</u>	
	Contractor's profit & overhead			20%	247.97	
	Total Composite rate				<u>56.91</u>	56.90

Item No. 25-22

Each a) **Providing manhole type 'B' size 36" x 30" (inside dimensions) x 48" deep as per approved design and specifications complete for 4" to 12" dia. pipe 4ft to 7'-6" depth with 18" dia (inside) Concrete cover and frame fixed in 6" thick RCC 1:2:4 slab with 5 lbs. per Cu.ft steel and Concrete walls,6" thick 1:3:6 cement concrete foundation, 4" av. thick 1:2:4 cement concrete in benching to all inner wall surfaces, channels and benching including providing and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff.**

	Materials					
	Concrete 1:2:4	4.5 x 4 x 0.5	9.00	Cu.ft. = 0.25	Cu.m.	
	Concrete 1:3:6	4.5 x 4 x 0.5	9.00	Cu.ft. = 0.25	Cu.m.	
	Benching concrete = 3 x 2.5 x .33		2.48	Cu.ft. = 0.07	Cu.m.	
					0.58	
	Concrete 1:2:4	14 x 0.5 x 2	14.00	Cu.ft. = 0.40	Cu.m.	
	M.S. bars	23 x 5 / 2.2046	52.16	Kg.		
	Benching	3 x 2.5	7.50	Sq.ft. = 0.70	Sq.m.	
					0.70	
	1. Labour					
	For concrete	Same as in item 5-13(a)	0.98	Cu.m. @ 1292.38	1,266.53	
					1,266.53	
	Contractor's profit & overhead			20%	253.31	
	Total Labour rate				<u>1,519.83</u>	1519.85
	2. Material					
	Concrete 1:2:4	Rate as per item 5-17(a)1	0.65	Cu.m. @ 8338.90	5,420.28	
	Concrete 1:3:6	Rate as per item 5-13(c)	0.25	Cu.m. @ 7304.52	1,861.82	
	Flooring 1:2:4	Rate as per item 14-2(b)1	0.70	Sq.m. @ 195.77	136.46	
	Mild steel bars(G-40)		52.16	Kg. @ 88.00	4,590.08	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	18" Dia Concrete Cover along with Frame	1.00	Each @ 4500.00	4,500.00
				16,508.64
	Contractor's profit & overhead		20%	3,301.73
	Total Composite rate			21,330.20
				21330.20
Cm.	b) Extra for depth beyond 4' (1.2 m) and upto 7'-6" (2.2 m) for 'B' type manholes including cost of cast iron foot rest at every 12" (300mm) of depth			
	For 12" (30 cm.)depth			
	Concrete 1:2:4	14 x 0.5 x 1	7.00 Cu.ft. =	0.20 Cu.m.
	1. Labour			
	For concrete	Same as in item 5-13(a)	0.20 Cu.m. @	1292.38
				256.21
	Contractor's profit & overhead		20%	51.24
	Total Labour rate			10.25
				10.25
	2. Material			
	Concrete 1:2:4	Rate as per item 5-17(a)1	0.20 Cu.m. @	6294.87
	C.I. foot rest		1.00 No. @	80.00
				80.00
				1,327.92
	Sundries		5%	66.40
				1,394.32
	Contractor's profit & overhead		20%	278.86
	Total Composite rate			66.02
				66.00
Each	c) Extra for using C.I. cover and frame 18" dia. inside and weighing 89 kg for main roads.			
	1. Material			
	Extra for using 89 Kg.C.I. cover and frame			
	C.I. cover & frame	89.00	Kg. @	75.00
				6,675.00
	18" Dia Concrete Cover along with Frame	1.00	Each @	4500.00
				4,500.00
				2,175.00
	Contractor's profit & overhead		20%	1,335.00
	Total Composite rate			3,510.00
				3510.00
	Item No. 25-23			
Each	a) Providing manhole type 'C' size 36" x 30" (inside dimensions) x 7.5 ft deep as per approved design and specifications complete for 4" to 12" dia. pipe 7'-6" to 12 ft depth with 18" dia (inside) Concrete cover fixed in 6" thick RCC 1:2:4 slab with 5 lbs per Cu.ft steel and 6" thick RCC Walls,6" thick 1:3:6 cement concrete foundation, 4" av. thick 1:2:4 cement concrete and benching including providing and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff.			
	Materials			
	Concrete 1:2:4	4.5 x 4 x 0.5	9.00 Cu.ft. =	0.25 Cu.m.
	Concrete 1:3:6	4.5 x 4 x 0.5	9.00 Cu.ft. =	0.25 Cu.m.
	Benching concrete = 3 x 2.5 x 0.33		2.48 Cu.ft. =	0.07 Cu.m.
				0.58 Cu.m.
	Concrete 1:2:4	14x0.5x7.5	52.50 Cu.ft. =	1.49 Cu.m.
	M.S. bars	61 x 5 / 2.2046	138.35 Kg.	
	Benching	3 x 2.5	7.50 Sq.ft. =	0.70 Sq.m.
	Extra for channel		1.00 Sq.ft. =	0.09 Sq.m.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
			0.79	Sq.m.
C.I. foot rest		7.00	Nos.	
1. Labour				
For concrete	Same as in item 5-13(a)	0.58	Cu.m. @	1292.38
Concrete 1:2:4	Rate as per item 5-17(a)1	2.23	Cu.m. @	1292.38
For flooring	Same as in item 14-2(b)	0.70	Sq.m. @	114.38
				<u>79.72</u>
				3,711.44
Contractor's profit & overhead			20%	742.29
Total Labour rate				<u>4,453.73</u>
				4453.75
2. Material				
Concrete 1:2:4	Rate as per item 5-17(a)1	0.32	Cu.m. @	8338.90
Concrete 1:3:6	Rate as per item 5-13(c)	0.25	Cu.m. @	7304.52
Concrete 1:2:4	Rate as per item 5-17(a)1	2.23	Cu.m. @	8338.90
Flooring 1:2:4	Rate as per item 14-2(b)1	0.70	Sq.m. @	195.77
Mild steel bars(G-40)		138.35	Kg. @	88.00
18" Dia Concrete Cover along with Frame		1.00	Nos. @	4500.00
				4,500.00
C.I. foot rest		7.00	No. @	80.00
				560.00
				<u>40,540.58</u>
Contractor's profit & overhead			20%	8,108.12
Total Composite rate				<u>53,102.42</u>
				53102.40
Cm. b)	Extra for depth beyond 7'-6" upto 12 ft (2.2 m to 3.66 m) for 'C' type manholes including cost of cast iron foot rest at every 12" (300mm) of depth			
	For 12" (30 cm.)depth			
1. Labour				
Total Labour rate	Same as in item 25-22(b)			10.25
				10.25
Total Composite rate:	Same as in item 25-22(b)			66.00
				66.00
Each c)	Extra for using C.I. cover weighing 89 kg for main roads.			
Total Composite rate:	Same as in item 25-22(c)			3,510.00
				3510.00
	Item No. 25-24			
Each a)	Providing manhole type 'D' size 4'-6" x 3' at bottom and 3' x 2' at top (inside dimensions at both level) x 13.5 ft deep as per approved design and specifications complete for 6" to 15" dia. pipe deeper than 12' upto 20 ft depth with 20" dia (inside) Concrete cover and frame fixed in 6" thick RCC 1:2:4 slab and 7" thick RCC slab and lintel for supporting 6" thick RCC walls upto 7'-6" depth from top , 9" thick 1:3:6 cement concrete in foundation, 1:2:4 cement concrete in benching to all inner wall surfaces, channels and benching including providing and fixing C.I. foot rest at every 12" of depth and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff. The reinforcement for RCC shall be used at 5 lbs. per Cu.ft of concrete.			101.60
Materials				
RCC slab 1:2:4	4.5 x 3.5 x 0.5	7.88	Cu.ft. =	0.22
Middle slab	7.5 x 6 x 0.58	26.10	Cu.ft. =	0.74
				0.96
Less openings	3.14 x 0.83 x 0.83 x 0.5	1.08	Cu.ft. =	0.03
	4.5 x 3.5 x 0.58	9.14	Cu.ft. =	<u>0.26</u>
				0.67
Concrete 1:3:6	7.5 x 6 x 0.75	33.75	Cu.ft. =	0.96
Benching concrete = 4.5 x 3 x 0.33		4.46	Cu.ft. =	<u>0.13</u>
				1.75
				Cu.m.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
RCC 1:2:4	34 X 0.5 X 12.92	127.50	Cu.ft. = 3.61	Cu.m.
				<u>3.61</u> Cu.m.
M.S. bars	127.5 x 5 / 2.2046	289.17	Kg.	
Benching	4.5 x 3	13.50	Sq.ft. =	1.25 Sq.m.
	15 x 5.42	81.30	Sq.ft. =	7.56 Sq.m.
Extra for channel		1.00	Sq.ft. =	0.09 Sq.m.
				<u>8.90</u> Sq.m.
C.I. foot rest		12.00	Nos.	
1. Labour				
For concrete	Same as in item 5-13(a)	3.61	Cu.m. @	1292.38
				4,665.47
				<u>4,665.47</u>
Contractor's profit & overhead			20%	933.09
Total Labour rate				<u>5,598.57</u> 5598.55
2. Material				
Concrete 1:2:4	Rate as per item 5-17(a)1	3.61	Cu.m. @	8338.90
Concrete 1:3:6	Rate as per item 5-13(c)	0.96	Cu.m. @	7304.52
Mild steel bars(G-40)		289.17	Kg. @	88.00
20" Dia Concrete Cover along with Frame		1.00	Nos. @	5500.00
				5,500.00
C.I. foot rest		12.00	No. @	80.00
				960.00
				<u>68,992.02</u>
Contractor's profit & overhead			20%	13,798.40
Total Composite rate				<u>88,388.99</u> 88389.00
Each b) Extra for using C.I. cover and frame 18" dia. inside and weighing 101 kg for main roads.				
1. Material				
Extra for using 101.0 Kg.C.I. cover and frame				
C.I. cover & frame		101.00	Kg. @	75.00
				7,575.00
20" Dia Concrete Cover along with Frame		1.00	Each @	5500.00
				5,500.00
				<u>2,075.00</u>
Contractor's profit & overhead			20%	1,515.00
Total Composite rate				<u>3,590.00</u> 3590.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 25-25

- Each a) **Providing manhole type 'E' size 4'-6"x4' at bottom and 3'x2' at top (inside dimensions at both level) x 14.5 ft deep as per approved design and specifications complete for 18" to 24" dia. pipe deeper than 12' upto 20 ft depth with 20" dia (inside) Concrete cover and frame fixed in 6" thick RCC 1:2:4 slab and 9" thick RCC slab and 6" thick Concrete walls, 9" thick 1:3:6 cement concrete in foundation, 1:2:4 cement concrete in benching including providing and fixing C.I. foot rest at every 12" of depth and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff. The reinforcement for RCC shall be used at 5 lbs. per Cu.ft of concrete.**

Materials

RCC slab 1:2:4	4.5 x 3.5 x 0.5	7.88	Cu.ft. =	0.22	Cu.m.
Middle slab	7.5 x 7 x 0.58	30.45	Cu.ft. =	0.86	Cu.m.
				1.09	Cu.m.
Less openings	3.14 x 0.83 x 0.83 x 0.5	1.08	Cu.ft. =	0.03	Cu.m.
	4.5 x 4 x 0.58	10.44	Cu.ft. =	0.30	Cu.m.
				0.76	Cu.m.
Concrete 1:3:6	7.5 x 7 x 0.75	39.38	Cu.ft. =	1.12	Cu.m.
Benching concrete = 4.5 x 4 x 0.33		3.96	Cu.ft. =	0.11	Cu.m.
				1.99	Cu.m.
RCC 1:2:4					
	36 x 0.5 x 13.75	247.50	Cu.ft. =	7.01	Cu.m.
				7.01	Cu.m.
M.S. bars	340.68 x 5 / 2.2046	772.66	Kg.		
Extra for channel		1.00	Sq.ft. =	0.09	Sq.m.
				0.09	Sq.m.
C.I. foot rest		13.00	Nos.		
1. Labour					
For concrete	Same as in item 5-13(a)	9.00	Cu.m. @	1292.38	11,625.83
					11,625.83
Contractor's profit & overhead				20%	2,325.17

Total Labour rate

13,950.99

13951.00

2. Material

Concrete 1:2:4	Rate as per item 5-17(a)1	7.88	Cu.m. @	8338.90	65,715.38
Concrete 1:3:6	Rate as per item 5-13(c)	1.12	Cu.m. @	7304.52	8,145.44
Mild steel bars(G-40)		772.66	Kg. @	88.00	67,993.83
C.I. cover & frame		101.60	Kg. @	75.00	7,620.00

C.I. foot rest		13.00	No. @	80.00	1,040.00
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150,514.65

Contractor's profit & overhead

20%

30,102.93

Total Composite rate

194,568.58

194568.60

- Cm. b) **Extra for RCC walls required for extra depth beyond 14'- 6" upto 20 ft (4.42m to 6.1m) for 'E' type manholes including cost of extra foot rest at every 12" (300mm) of depth**

For 12" (30 cm.)depth

Concrete 1:2:4	23 x 1 0.5 1	34.50	Cu.ft. =	0.98	Cu.m.
1. Labour					
Concrete 1:2:4	Rate as per item 5-17(a)1	0.98	Cu.m. @	1292.38	1,262.73
					1,262.73
Contractor's profit & overhead				20%	252.55

Total Labour rate

50.51

50.50

2. Material

Brick masonry	Rate as per item 11-3(b)2	0.98	Cu.m. @	6294.87	6,150.47
Mild steel bars(G-40)	5x34.5/2.204	78.27	Kg. @	88.00	6,887.48

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	C.I. foot rest	1.00	No. @ 80.00	80.00
				<u>13,117.95</u>
	Sundries		5%	<u>655.90</u>
				13,773.85
	Contractor's profit & overhead		20%	2,754.77
	Total Composite rate			<u>601.46</u> 601.45
Each	c) Extra for using C.I. cover and frame 20" dia. inside and weighing 101 kg for main roads.			
	1. Material			
	Extra for using 101 Kg.C.I. cover and frame			
	C.I. cover & frame	101.00	Kg. @ 75.00	7,575.00
	20" Dia Concrete Cover along with Frame	1.00	Each @ 5500.00	5,500.00
				<u>2,075.00</u>
	Contractor's profit & overhead		20%	<u>1,515.00</u>
	Total Composite rate			<u>3,590.00</u> 3590.00

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
Item No. 26-1						
Excavation of well in dry and under water level and disposal of soil within 100 ft. (30m or one chain)						
Cu.m.	a) In ordinary soil or sand					
	i) Upto 5 ft. (1.5 m) depth					
	1. Labour					
	Labourer	3.00	Hrs	@	87.50	262.50
	Water charges				1.5%	3.94
						<u>266.44</u>
	Contractor's profit & overhead				20%	53.29
	Total Labour rate					<u>319.73</u>
						319.75
	ii) Above 5 ft. to 10 ft. (1.5 m to 3 m) depth					
	1. Labour					
	Labourer	3.25	Hrs	@	87.50	284.38
	Water charges				1.5%	4.27
						<u>288.64</u>
	Contractor's profit & overhead				20%	57.73
	Total Labour rate					<u>346.37</u>
						346.35
	iii) Above 10 ft. to 15 ft. (3 m to 4.5 m) depth					
	1. Labour					
	Labourer	3.50	Hrs	@	87.50	306.25
	Water charges				1.5%	4.59
						<u>310.84</u>
	Contractor's profit & overhead				20%	62.17
	Total Labour rate					<u>373.01</u>
						373.00
	iv) Above 15 ft. to 20 ft. (4.5 m to 6 m) depth					
	1. Labour					
	Labourer	3.75	Hrs	@	87.50	328.13
	Water charges				1.5%	4.92
						<u>333.05</u>
	Contractor's profit & overhead				20%	66.61
	Total Labour rate					<u>399.66</u>
						399.65
	v) Above 20 ft. to 25 ft. (6 m to 7.5 m) depth					
	1. Labour					
	Labourer	4.00	Hrs	@	87.50	350.00
	Water charges				1.5%	5.25
						<u>355.25</u>
	Contractor's profit & overhead				20%	71.05
	Total Labour rate					<u>426.30</u>
						426.30
	vi) Above 25 ft. to 30 ft. (7.5 m to 9 m) depth					
	1. Labour					
	Labourer	4.50	Hrs	@	87.50	393.75
	Water charges				1.5%	5.91
						<u>399.66</u>
	Contractor's profit & overhead				20%	79.93
	Total Labour rate					<u>479.59</u>
						479.60

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
vii) Above 30 ft. to 35 ft. (9 m to 10.5 m) depth				
1. Labour				
	Labourer	5.00	Hrs @ 87.50	437.50
	Water charges		1.5%	6.56
				<u>444.06</u>
	Contractor's profit & overhead		20%	88.81
	Total Labour rate			<u>532.88</u>
				532.90
viii) Above 35 ft. to 40 ft. (10.5 m to 12 m) depth				
1. Labour				
	Labourer	5.50	Hrs @ 87.50	481.25
	Water charges		1.5%	7.22
				<u>488.47</u>
	Contractor's profit & overhead		20%	97.69
	Total Labour rate			<u>586.16</u>
				586.15
ix) Above 40 ft. to 45 ft. (12 m to 13.5 m) depth				
1. Labour				
	Labourer	6.00	Hrs @ 87.50	525.00
	Water charges		1.5%	7.88
				<u>532.88</u>
	Contractor's profit & overhead		20%	106.58
	Total Labour rate			<u>639.45</u>
				639.45
x) Above 45 ft. (13.5 m) to any depth				
1. Labour				
	Labourer	8.00	Hrs @ 87.50	700.00
	Water charges		1.5%	10.50
				<u>710.50</u>
	Contractor's profit & overhead		20%	142.10
	Total Labour rate			<u>852.60</u>
				852.60
xi) Under water upto 15 ft. depth (upto 4.5 m below water level)				
1. Labour				
	Labourer	10.00	Hrs @ 87.50	875.00
	Water charges		1.5%	13.13
				<u>888.13</u>
	Contractor's profit & overhead		20%	177.63
	Total Labour rate			<u>1,065.75</u>
				1065.75
Cu.m.	b) In hard soil			
	i) Upto 5 ft. (1.5 m) depth			
1. Labour				
	Labourer	3.50	Hrs @ 87.50	306.25
	Water charges		1.5%	4.59
				<u>310.84</u>
	Contractor's profit & overhead		20%	62.17
	Total Labour rate			<u>373.01</u>
				373.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
ii) Above 5 ft. to 10 ft. (1.5 m to 3 m) depth				
1. Labour				
	Labourer	3.75	Hrs @ 87.50	328.13
	Water charges		1.5%	4.92
				<u>333.05</u>
	Contractor's profit & overhead		20%	66.61
	Total Labour rate			<u>399.66</u>
				399.65
iii) Above 10 ft. to 15 ft. (3 m to 4.5 m) depth				
1. Labour				
	Labourer	4.00	Hrs @ 87.50	350.00
	Water charges		1.5%	5.25
				<u>355.25</u>
	Contractor's profit & overhead		20%	71.05
	Total Labour rate			<u>426.30</u>
				426.30
iv) Above 15 ft. to 20 ft. (4.5 m to 6 m) depth				
1. Labour				
	Labourer	4.25	Hrs @ 87.50	371.88
	Water charges		1.5%	5.58
				<u>377.45</u>
	Contractor's profit & overhead		20%	75.49
	Total Labour rate			<u>452.94</u>
				452.95
v) Above 20 ft. to 25 ft. (6 m to 7.5 m) depth				
1. Labour				
	Labourer	4.75	Hrs @ 87.50	415.63
	Water charges		1.5%	6.23
				<u>421.86</u>
	Contractor's profit & overhead		20%	84.37
	Total Labour rate			<u>506.23</u>
				506.25
vi) Above 25 ft. to 30 ft. (7.5 m to 9 m) depth				
1. Labour				
	Labourer	5.25	Hrs @ 87.50	459.38
	Water charges		1.5%	6.89
				<u>466.27</u>
	Contractor's profit & overhead		20%	93.25
	Total Labour rate			<u>559.52</u>
				559.50
vii) Above 30 ft. to 35 ft. (9 m to 10.5 m) depth				
1. Labour				
	Labourer	5.75	Hrs @ 87.50	503.13
	Water charges		1.5%	7.55
				<u>510.67</u>
	Contractor's profit & overhead		20%	102.13
	Total Labour rate			<u>612.81</u>
				612.80
viii) Above 35 ft. to 40 ft. (10.5 m to 12 m) depth				
1. Labour				
	Labourer	6.25	Hrs @ 87.50	546.88
	Water charges		1.5%	8.20
				<u>555.08</u>
	Contractor's profit & overhead		20%	111.02
	Total Labour rate			<u>666.09</u>
				666.10

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
ix) Above 40 ft. to 45 ft. (12 m to 13.5 m) depth				
1. Labour				
	Labourer	6.75	Hrs @ 87.50	590.63
	Water charges		1.5%	8.86
				<u>599.48</u>
	Contractor's profit & overhead		20%	119.90
	Total Labour rate			<u>719.38</u>
				719.40
x) Above 45 ft. (13.5 m) to any depth				
1. Labour				
	Labourer	8.50	Hrs @ 87.50	743.75
	Water charges		1.5%	11.16
				<u>754.91</u>
	Contractor's profit & overhead		20%	150.98
	Total Labour rate			<u>905.89</u>
				905.90
xi) Under water upto 15 ft. depth (upto 4.5 m below water level)				
1. Labour				
	Labourer	11.00	Hrs @ 87.50	962.50
	Water charges		1.5%	14.44
				<u>976.94</u>
	Contractor's profit & overhead		20%	195.39
	Total Labour rate			<u>1,172.33</u>
				1172.35
Cu.m. c) In hard strata including shingle, gravel or equivalent				
i) Upto 5 ft. (1.5 m) depth				
1. Labour				
	Labourer	6.50	Hrs @ 87.50	568.75
	Water charges		1.5%	8.53
				<u>577.28</u>
	Contractor's profit & overhead		20%	115.46
	Total Labour rate			<u>692.74</u>
				692.75
ii) Above 5 ft. to 10 ft. (1.5 m to 3 m) depth				
1. Labour				
	Labourer	6.75	Hrs @ 87.50	590.63
	Water charges		1.5%	8.86
				<u>599.48</u>
	Contractor's profit & overhead		20%	119.90
	Total Labour rate			<u>719.38</u>
				719.40
iii) Above 10 ft. to 15 ft. (3 m to 4.5 m) depth				
1. Labour				
	Labourer	7.00	Hrs @ 87.50	612.50
	Water charges		1.5%	9.19
				<u>621.69</u>
	Contractor's profit & overhead		20%	124.34
	Total Labour rate			<u>746.03</u>
				746.05

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
iv) Above 15 ft. to 20 ft. (4.5 m to 6 m) depth				
1. Labour				
	Labourer	7.25	Hrs @ 87.50	634.38
	Water charges		1.5%	9.52
				<u>643.89</u>
	Contractor's profit & overhead		20%	128.78
	Total Labour rate			<u>772.67</u>
				772.65
v) Above 20 ft. to 25 ft. (6 m to 7.5 m) depth				
1. Labour				
	Labourer	7.75	Hrs @ 87.50	678.13
	Water charges		1.5%	10.17
				<u>688.30</u>
	Contractor's profit & overhead		20%	137.66
	Total Labour rate			<u>825.96</u>
				825.95
vi) Above 25 ft. to 30 ft. (7.5 m to 9 m) depth				
1. Labour				
	Labourer	8.25	Hrs @ 87.50	721.88
	Water charges		1.5%	10.83
				<u>732.70</u>
	Contractor's profit & overhead		20%	146.54
	Total Labour rate			<u>879.24</u>
				879.25
vii) Above 30 ft. to 35 ft. (9 m to 10.5 m) depth				
1. Labour				
	Labourer	8.75	Hrs @ 87.50	765.63
	Water charges		1.5%	11.48
				<u>777.11</u>
	Contractor's profit & overhead		20%	155.42
	Total Labour rate			<u>932.53</u>
				932.55
viii) Above 35 ft. to 40 ft. (10.5 m to 12 m) depth				
1. Labour				
	Labourer	9.25	Hrs @ 87.50	809.38
	Water charges		1.5%	12.14
				<u>821.52</u>
	Contractor's profit & overhead		20%	164.30
	Total Labour rate			<u>985.82</u>
				985.80
ix) Above 40 ft. to 45 ft. (12 m to 13.5 m) depth				
1. Labour				
	Labourer	9.75	Hrs @ 87.50	853.13
	Water charges		1.5%	12.80
				<u>865.92</u>
	Contractor's profit & overhead		20%	173.18
	Total Labour rate			<u>1,039.11</u>
				1039.10
x) Above 45 ft. (13.5 m) to any depth				
1. Labour				
	Labourer	10.50	Hrs @ 87.50	918.75
	Water charges		1.5%	13.78
				<u>932.53</u>
	Contractor's profit & overhead		20%	186.51
	Total Labour rate			<u>1,119.04</u>
				1119.05

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)		
xi) Under water upto 15 ft. depth (upto 4.5 m below water level)						
1. Labour						
	Labourer	11.00	Hrs @	87.50	962.50	
	Water charges			1.5%	14.44	
					976.94	
	Contractor's profit & overhead			20%	195.39	
	Total Labour rate				1,172.33	1172.35
Item No. 26-2						
Dry sinking of well including loading and removing of excavated material within 100ft (30m.) lead.						
Cu.m.	a) In ordinary soil or sand					
	i) Above 10 ft. to 15 ft. (3 m to 4.5 m) depth					
1. Labour						
	Labourer	10.00	Hrs @	87.50	875.00	
	Water charges			1.5%	13.13	
					888.13	
	Add extra for loading			10%	88.81	
					976.94	
	Contractor's profit & overhead			20%	195.39	
	Total Labour rate				1,172.33	1172.35
	ii) Above 15 ft. to 20 ft. (4.5 m to 6 m) depth					
1. Labour						
	Labourer	12.75	Hrs @	87.50	1,115.63	
	Water charges			1.5%	16.73	
					1,132.36	
	Add extra for loading			10%	113.24	
					1,245.60	
	Contractor's profit & overhead			20%	249.12	
	Total Labour rate				1,494.71	1494.70
	iii) Above 20 ft. to 25 ft. (6 m to 7.5 m) depth					
1. Labour						
	Labourer	15.50	Hrs @	87.50	1,356.25	
	Water charges			1.5%	20.34	
					1,376.59	
	Add extra for loading			10%	137.66	
					1,514.25	
	Contractor's profit & overhead			20%	302.85	
	Total Labour rate				1,817.10	1817.10
	iv) Above 25 ft. to 30 ft. (7.5 m to 9 m) depth					
1. Labour						
	Labourer	18.25	Hrs @	87.50	1,596.88	
	Water charges			1.5%	23.95	
					1,620.83	
	Add extra for loading			10%	162.08	
					1,782.91	
	Contractor's profit & overhead			20%	356.58	
	Total Labour rate				2,139.49	2139.50

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
v) Above 30 ft. to 35 ft. (9 m to 10.5 m) depth				
1. Labour				
	Labourer	21.00	Hrs @ 87.50	1,837.50
	Water charges		1.5%	27.56
				<u>1,865.06</u>
	Add extra for loading		10%	186.51
				<u>2,051.57</u>
	Contractor's profit & overhead		20%	410.31
	Total Labour rate			<u>2,461.88</u>
				2461.90
vi) Above 35 ft. to 40 ft. (10.5 m to 12 m) depth				
1. Labour				
	Labourer	23.75	Hrs @ 87.50	2,078.13
	Water charges		1.5%	31.17
				<u>2,109.30</u>
	Add extra for loading		10.0%	210.93
				<u>2,320.23</u>
	Contractor's profit & overhead		20%	464.05
	Total Labour rate			<u>2,784.27</u>
				2784.25
vii) Above 40 ft. to 45 ft. (12 m to 13.5 m) depth				
1. Labour				
	Labourer	26.50	Hrs @ 87.50	2,318.75
	Water charges		1.5%	34.78
				<u>2,353.53</u>
	Add extra for loading		10.0%	235.35
				<u>2,588.88</u>
	Contractor's profit & overhead		20%	517.78
	Total Labour rate			<u>3,106.66</u>
				3106.65
viii) Above 45 ft. (13.5 m) to any depth				
1. Labour				
	Labourer	29.25	Hrs @ 87.50	2,559.38
	Water charges		1.5%	38.39
				<u>2,597.77</u>
	Add extra for loading		10.0%	259.78
				<u>2,857.54</u>
	Contractor's profit & overhead		20%	571.51
	Total Labour rate			<u>3,429.05</u>
				3429.05
Cu.m. b) In hard soil				
i) Above 10 ft. to 15 ft. (3 m to 4.5 m) depth				
1. Labour				
	Labourer	14.00	Hrs @ 87.50	1,225.00
	Water charges		1.5%	18.38
				<u>1,243.38</u>
	Add extra for loading		10.0%	124.34
				<u>1,367.71</u>
	Contractor's profit & overhead		20%	273.54
	Total Labour rate			<u>1,641.26</u>
				1641.25

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
ii) Above 15 ft. to 20 ft. (4.5 m to 6 m) depth				
1. Labour				
	Labourer	16.75	Hrs @ 87.50	1,465.63
	Water charges		1.5%	21.98
				<u>1,487.61</u>
	Add extra for loading		10.0%	148.76
				<u>1,636.37</u>
	Contractor's profit & overhead		20%	327.27
	Total Labour rate			<u>1,963.64</u>
				1963.65
iii) Above 20 ft. to 25 ft. (6 m to 7.5 m) depth				
1. Labour				
	Labourer	19.50	Hrs @ 87.50	1,706.25
	Water charges		1.5%	25.59
				<u>1,731.84</u>
	Add extra for loading		10.0%	173.18
				<u>1,905.03</u>
	Contractor's profit & overhead		20%	381.01
	Total Labour rate			<u>2,286.03</u>
				2286.05
iv) Above 25 ft. to 30 ft. (7.5 m to 9 m) depth				
1. Labour				
	Labourer	22.25	Hrs @ 87.50	1,946.88
	Water charges		1.5%	29.20
				<u>1,976.08</u>
	Add extra for loading		10%	197.61
				<u>2,173.69</u>
	Contractor's profit & overhead		20%	434.74
	Total Labour rate			<u>2,608.42</u>
				2608.40
v) Above 30 ft. to 35 ft. (9 m to 10.5 m) depth				
1. Labour				
	Labourer	25.00	Hrs @ 87.50	2,187.50
	Water charges		1.5%	32.81
				<u>2,220.31</u>
	Add extra for loading		10%	222.03
				<u>2,442.34</u>
	Contractor's profit & overhead		20%	488.47
	Total Labour rate			<u>2,930.81</u>
				2930.80
vi) Above 35 ft. to 40 ft. (10.5 m to 12 m) depth				
1. Labour				
	Labourer	27.75	Hrs @ 87.50	2,428.13
	Water charges		1.5%	36.42
				<u>2,464.55</u>
	Add extra for loading		10%	246.45
				<u>2,711.00</u>
	Contractor's profit & overhead		20%	542.20
	Total Labour rate			<u>3,253.20</u>
				3253.20

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
vii) Above 40 ft. to 45 ft. (12 m to 13.5 m) depth				
1. Labour				
	Labourer	30.50	Hrs @ 87.50	2,668.75
	Water charges		1.5%	40.03
				<u>2,708.78</u>
	Add extra for loading		10%	270.88
				<u>2,979.66</u>
	Contractor's profit & overhead		20%	595.93
	Total Labour rate			<u>3,575.59</u>
				3575.60
viii) Above 45 ft. (13.5 m) to any depth				
1. Labour				
	Labourer	33.25	Hrs @ 87.50	2,909.38
	Water charges		1.5%	43.64
				<u>2,953.02</u>
	Add extra for loading		10%	295.30
				<u>3,248.32</u>
	Contractor's profit & overhead		20%	649.66
	Total Labour rate			<u>3,897.98</u>
				3898.00
Cu.m. c) In hard strata including shingle, gravel or equivalent				
i) Above 10 ft. to 15 ft. (3 m to 4.5 m) depth				
	Total Labour rate	Same as in item 26-2(b)iii.		2,286.05
				2286.05
ii) Above 15 ft. to 20 ft. (4.5 m to 6 m) depth				
	Total Labour rate	Same as in item 26-2(b)iv.		2,608.40
				2608.40
iii) Above 20 ft. to 25 ft. (6 m to 7.5 m) depth				
	Total Labour rate	Same as in item 26-2(b)v.		2,930.80
				2930.80
iv) Above 25 ft. to 30 ft. (7.5 m to 9 m) depth				
	Total Labour rate	Same as in item 26-2(b)vi.		3,253.20
				3253.20
v) Above 30 ft. to 35 ft. (9 m to 10.5 m) depth				
	Total Labour rate	Same as in item 26-2(b)vii.		3,575.60
				3575.60
vi) Above 35 ft. to 40 ft. (10.5 m to 12 m) depth				
	Total Labour rate	Same as in item 26-2(b)viii.		3,898.00
				3898.00
vii) Above 40 ft. to 45 ft. (12 m to 13.5 m) depth				
1. Labour				
	Labourer	36.00	Hrs @ 87.50	3,150.00
	Water charges		1.5%	47.25
				<u>3,197.25</u>
	Add extra for loading		10%	319.73
				<u>3,516.98</u>
	Contractor's profit & overhead		20%	703.40
	Total Labour rate			<u>4,220.37</u>
				4220.35

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

viii) Above 45 ft. (13.5 m) to any depth

1. Labour					
Labourer	38.75	Hrs	@	87.50	3,390.63
Water charges				1.5%	50.86
					<u>3,441.48</u>
Add extra for loading				10%	344.15
					<u>3,785.63</u>
Contractor's profit & overhead				20%	757.13
Total Labour rate					<u>4,542.76</u>
					4542.75

Item No. 26-3

Wet sinking of well in ordinary soil (value of 'c' upto 5) for depth below spring level including charges of machinery, shoring, kentledge and removal of excavated material within 100 ft. (30m.) lead.

Cu.m. a) Upto 10 ft (3 m) depth

1. Labour					
Foreman	0.75	Hrs	@	125.00	93.75
Driller	1.50	Hrs	@	87.50	131.25
Labourer	3.00	Hrs	@	87.50	262.50
					<u>487.50</u>
Contractor's profit & overhead				20%	97.50
Total Labour rate					<u>585.00</u>
					585.00

2. Plant and Equipment

Hire charges of					
Tractor with operator	0.75	Hrs	@	537.00	402.75
Pump set 10 H.P	0.75	Hrs	@	625.00	468.75
Bucket	0.75	Hrs	@	20.00	15.00
					<u>886.50</u>
Extra to prevent shoring				5%	68.70
Extra for kentledge				5%	68.70
Extra for loading, ropes				10%	137.40
					<u>1,161.30</u>
Contractor's profit & overhead				20%	232.26
Total Composite rate					<u>1,393.56</u>
					1393.55

Cu.m. b) Above 10 ft. to 20 ft. (3 m to 6 m) depth

Total Labour rate	2.25 times over item 26-3(a)			1,240.20	1240.20
Total Composite rate	2.25 times over item 26-3(a)			2,954.33	2954.35

Cu.m. c) Above 20 ft. to 30 ft. (6 m to 9 m) depth

Total Labour rate	3 times over item 26-3(a)			1,521.00	1521.00
Total Composite rate	3 times over item 26-3(a)			3,623.23	3623.25

Cu.m. d) Above 30 ft. to 40 ft. (9 m to 12 m) depth

Total Labour rate	3.5 times over item 26-3(a)			2,047.50	2047.50
Total Composite rate	3.5 times over item 26-3(a)			4,877.43	4877.45

Cu.m. e) Above 40 ft. to 50 ft. (12 m to 15 m) depth

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate 3.75 times over item 26-3(a)	2,193.75	2193.75
	Total Composite rate 3.75 times over item 26-3(a)	5,225.81	5225.80
Cu.m.	f) Above 50 ft. to 60 ft. (15 m to 18 m) depth		
	Total Labour rate 4 times over item 26-3(a)	2,340.00	2340.00
	Total Composite rate 4 times over item 26-3(a)	5,574.20	5574.20
Cu.m.	g) Above 60 ft. to 70 ft. (18 m to 21 m) depth		
	Total Labour rate 4.25 times over item 26-3(a)	2,486.25	2486.25
	Total Composite rate 4.25 times over item 26-3(a)	5,922.59	5922.60
Cu.m.	h) Above 70 ft. to 80 ft. (21 m to 24 m) depth		
	Total Labour rate 4.5 times over item 26-3(a)	2,632.50	2632.50
	Total Composite rate 4.5 times over item 26-3(a)	6,270.98	6271.00
Cu.m.	i) Above 80 ft. (24 m) to any depth		
	Total Labour rate 4.75 times over item 26-3(a)	2,778.75	2778.75
	Total Composite rate 4.75 times over item 26-3(a)	6,619.36	6619.35
	Item No. 26-4		
	Wet sinking of well in cohesive soil (value of 'C' more than 5) for depth below spring level including charges of machinery, shoring, kentledge and removal of excavated material within 30m lead.		
Cu.m.	a) Upto 10 ft (3 m) depth		
	Total Labour rate 1.5 times over item 26-3(a)	877.50	877.50
	Total Composite rate 1.5 times over item 26-3(a)	2,090.33	2090.35
Cu.m.	b) Above 10 ft. to 20 ft. (3 m to 6 m) depth		
	Total Labour rate 1.5 times over item 26-3(b)	1,860.30	1860.30
	Total Composite rate 1.5 times over item 26-3(b)	4,431.53	4431.55
Cu.m.	c) Above 20 ft. to 30 ft. (6 m to 9 m) depth		
	Total Labour rate 1.5 times over item 26-3(c)	2,281.50	2281.50
	Total Composite rate 1.5 times over item 26-3(c)	5,434.88	5434.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Cu.m. d) Above 30 ft. to 40 ft. (9 m to 12 m) depth			
	Total Labour rate 1.5 times over item 26-3(d)	3,071.25	3071.25
	Total Composite rate 1.5 times over item 26-3(d)	7,316.18	7316.20
Cu.m. e) Above 40 ft. to 50 ft. (12 m to 15 m) depth			
	Total Labour rate 1.5 times over item 26-3(e)	3,290.63	3290.65
	Total Composite rate 1.5 times over item 26-3(e)	7,838.70	7838.70
Cu.m. f) Above 50 ft. to 60 ft. (15 m to 18 m) depth			
	Total Labour rate 1.5 times over item 26-3(f)	3,510.00	2072.83
	Total Composite rate 1.5 times over item 26-3(f)	8,361.30	4918.41
Cu.m. g) Above 60 ft. to 70 ft. (18 m to 21 m) depth			
	Total Labour rate 1.5 times over item 26-3(g)	3,729.38	3729.40
	Total Composite rate 1.5 times over item 26-3(g)	8,883.90	8883.90
Cu.m. h) Above 70 ft. to 80 ft. (21 m to 24 m) depth			
	Total Labour rate 1.5 times over item 26-3(h)	3,948.75	3948.75
	Total Composite rate 1.5 times over item 26-3(h)	9,406.50	9406.50
Cu.m. i) Above 80 ft. (24 m) to any depth			
	Total Labour rate 1.5 times over item 26-3(i)	4,168.13	4168.15
	Total Composite rate 1.5 times over item 26-3(i)	9,929.03	9929.05
Item No. 26-5			
Wet sinking of well in shingle or gravel for depth below spring level including charges for machinery, shoring, kentledge and removal of excavated material within 100 ft. (30 m.) lead.			
Cu.m. a) Upto 10 ft (3 m) depth			
	Total Labour rate 2 times over item 26-3(a)	1,170.00	1170.00
	Total Composite rate 2 times over item 26-3(a)	2,787.10	2787.10
Cu.m. b) Above 10 ft. to 20 ft. (3 m to 6 m) depth			
	Total Labour rate 2 times over item 26-3(b)	2,480.40	2480.40
	Total Composite rate 2 times over item 26-3(b)	5,908.70	5908.70

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
Cu.m. c)	Above 20 ft. to 30 ft. (6 m to 9 m) depth		
	Total Labour rate 2 times over item 26-3(c)	3,042.00	3042.00
	Total Composite rate 2 times over item 26-3(c)	7,246.50	7246.50
Cu.m. d)	Above 30 ft. to 40 ft. (9 m to 12 m) depth		
	Total Labour rate 2 times over item 26-3(d)	4,095.00	2476.81
	Total Composite rate 2 times over item 26-3(d)	9,754.90	5912.06
Cu.m. e)	Above 40 ft. to 50 ft. (12 m to 15 m) depth		
	Total Labour rate 2 times over item 26-3(e)	4,387.50	4387.50
	Total Composite rate 2 times over item 26-3(e)	10,451.60	10451.60
Cu.m. f)	Above 50 ft. to 60 ft. (15 m to 18 m) depth		
	Total Labour rate 2 times over item 26-3(f)	4,680.00	4680.00
	Total Composite rate 2 times over item 26-3(f)	11,148.40	11148.40
Cu.m. g)	Above 60 ft. to 70 ft. (18 m to 21 m) depth		
	Total Labour rate 2 times over item 26-3(g)	4,972.50	4972.50
	Total Composite rate 2 times over item 26-3(g)	11,845.20	11845.20
Cu.m. h)	Above 70 ft. to 80 ft. (21 m to 24 m) depth		
	Total Labour rate 2 times over item 26-3(h)	5,265.00	5265.00
	Total Composite rate 2 times over item 26-3(h)	12,542.00	12542.00
Cu.m. i)	Above 80 ft. (24 m) to any depth		
	Total Labour rate 2 times over item 26-3(i)	5,557.50	5557.50
	Total Composite rate 2 times over item 26-3(i)	13,238.70	13238.70
	Item No. 26-6-1		
Cu.m.	Making and supplying at site of work Kikar or Chalghoza wood well curb.		
	1. Labour		
	Carpenter	120.00 Hrs @ 125.00	15,000
	Helper	120.00 Hrs @ 75.00	9,000
			<u>24,000</u>
	Contractor's profit & overhead	20%	4,800
	Total Labour rate		<u>28,800</u>
			28800.00
	2. Material		
	Wood - Kikar	1.15 Cu.m. @ 42372.00	48,727.80
	Sawing charges	1.15 Cu.m. @ 3089.63	3,553.07
	Nail etc.	0.5%	261.40
			<u>52,542.27</u>
	Contractor's profit & overhead	20%	10,508.45
	Total Composite rate		<u>63,050.73</u>
			63050.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Item No. 26-7-1				
Each Job	Laying well curb in position only.			
	1. Labour			
	Carpenter	2.50	Hrs @ 125.00	312.50
	Helper	2.50	Hrs @ 75.00	187.50
				<u>500.00</u>
	Contractor's profit & overhead		20%	100.00
	Total Labour rate			<u>600.00</u>
				600.00
Item No. 26-8				
Providing, making and laying R.C.C. well curb in position using 3/4" (19mm) and down gauge crushed aggregate and coarse sand including formwork, moulds, shuttering, rendering the exposed surface including curing. The reinforcement will be paid separately.				
Cu.m. a)	1 : 1.5 : 3			
	1. Labour			
	Total Labour rate	Same as in item 5.5(a)		2,415.75
				2415.75
	2. Materials, Plant &			
	Rate same as in item 5.8(b) excluding profit			5,894.49
	Sundries		15%	884.17
	Add extra for formwork, mould, shuttering & rendering		25%	1,473.62
				<u>8,252.29</u>
	Contractor's profit & overhead		20%	1,650.46
	Total Composite rate			<u>9,902.75</u>
				9902.75
Cu.m. b)	1 : 2 : 4			
	1. Labour			
	Total Labour rate	Same as in item 5.5(a)		2,415.75
				2415.75
	2. Materials, Plant &			
	Rate same as in item 5.8(c) excluding profit			4,971.92
	Sundries		15%	745.79
	Add extra for formwork, mould, shuttering & rendering		25%	1,242.98
				<u>6,960.69</u>
	Contractor's profit & overhead		20%	1,392.14
	Total Composite rate			<u>8,352.83</u>
				8352.85
Item No. 26-9-1				
% kg	Providing and fixing structural steel for cutting edge.			
	1. Labour			
	Black smith	8.00	Hrs @ 112.00	896.00
	Helper	8.00	Hrs @ 75.00	600.00
				<u>1,496.00</u>
	Contractor's profit & overhead		20%	299.20
	Total Labour rate			<u>1,795.20</u>
				1795.20
	2. Material			
	Steel-Mild	105.00	Kg. @ 82.00	8,610.00
	Nail etc.		1.5%	129.15
				<u>8,739.15</u>
	Contractor's profit & overhead		20%	1,747.83
	Total Composite rate			<u>10,486.98</u>
				10487.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 26-10-1

Cu.m. Making and removing false masonry on well including its dismantling and cost of scraping bricks.

1. Labour

For mud masonry	Same as in item 11.2(b)					1,194.75	
For dismantling	Same as in item 4.12					415.80	
Extra for brick scraping							
Labourer		2.00	Hrs	@	87.50	175.00	
						<u>1,785.55</u>	
Contractor's profit & overhead					20%	357.11	
Total Labour rate						<u>2,142.66</u>	2142.65

2. Materials & Scaffolding

Rate same as in item 11.1(b) excluding profit						2,979.96	
Less cost of bricks at 75% = 0.75 x 480							
Bricks		360.00	No.	@	10.00	3,600.00	
Total						<u>6,579.96</u>	
Contractor's profit & overhead					20%	1,315.99	
Total Composite rate						<u>7,895.95</u>	7895.95

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 27-1					
R.M.	Boring for tubewell in all types of soil except shingle, gravel and rock from ground bed to 100ft (30m) depth including sinking and withdrawing casing pipe & disposal of excavated material within 100ft (30m)				
a)	3" (75 mm) inner dia.				
	For 100 R.ft.				
	1. Labour				
	Fitter	5.00	Hrs @	87.50	437.50
	Helper	5.00	Hrs @	75.00	375.00
	Labourer	9.00	Hrs @	87.50	787.50
					<u>1,600.00</u>
	Contractor's profit & overhead		20%		320.00
	Total Labour rate				<u>63.00</u> 63
	2. Tools and material				
	Required for boring of tubewell by manual labour.				
	Tripod	1.00	Nos.		
	Pully block	1.00	Nos.		
	Cutter (Boky)				
	Casing pipe				
	Bench				
	Manila rope				
	Mobilization/demobilization and hire charges				
	Boring of tubewell	8.00	Hrs	425.00	<u>3,400.00</u>
	Depreciation of manila			2%	<u>24.00</u>
					<u>3,424.00</u>
	Contractor's profit & overhead			20%	684.80
	Total Composite rate				<u>197.80</u> 198
b)	4" (100 mm) inner dia.				
	Total Labour rate	1.5 times of item 27-1(a)			85.05 85
	Total Composite rate	1.5 times of item 27-1(a)			296.70 297
c)	5" (125 mm) inner dia.				
	Total Labour rate	1.5 times of item 27-1(b)			153.09 153
	Total Composite rate	1.5 times of item 27-1(b)			445.05 445
d)	6" (150 mm) inner dia.				
	Total Labour rate	1.5 times of item 27-1(c)			229.65 230
	Total Composite rate	1.5 times of item 27-1(c)			667.58 668
e)	8" (200 mm) inner dia.				
	Total Labour rate	1.5 times of item 27-1(d)			305.43 305
	Total Composite rate	1.5 times of item 27-1(d)			1,001.40 1,001
f)	10" (250 mm) inner dia.				
	Total Labour rate	1.25 times of item 27-1(e)			381.81 382
	Total Composite rate	1.25 times of item 27-1(e)			1,251.75 1,252
g)	12" (300 mm) inner dia.				
	Total Labour rate	1.25 times of item 27-1(f)			477.25 477
	Total Composite rate	1.25 times of item 27-1(f)			1,564.69 1,565
h)	15" (375 mm) inner dia.				

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate 1.25 times of item 27-1(g)	596.56	597
	Total Composite rate 1.25 times of item 27-1(g)	1,955.88	1,956
	i) 18" (450 mm) inner dia.		
	Total Labour rate 1.25 times of item 27-1(h)	745.69	746
	Total Composite rate 1.25 times of item 27-1(h)	2,444.88	2,445
	Item No. 27-2		
R.M.	Boring for tubewell in all types of soil except shingle, gravel and rock from depth 100 ft. to 200 ft. (30m to 60m.) below ground level including sinking and withdrawing of casing pipe		
	a) 5" (125 mm) inner dia.		
	Total Labour rate 1.7 times of item 27-1(c)	260.27	260
	Total Composite rate 1.7 times of item 27-1(c)	756.59	757
	b) 6" (150 mm) inner dia.		
	Total Labour rate 1.6 times of item 27-1(d)	367.44	367
	Total Composite rate 1.6 times of item 27-1(d)	1,068.16	1,068
	c) 8" (200 mm) inner dia.		
	Total Labour rate 1.3 times of item 27-1(e)	397.09	397
	Total Composite rate 1.3 times of item 27-1(e)	1,301.82	1,302
	d) 10" (250 mm) inner dia.		
	Total Labour rate 1.2 times of item 27-1(f)	458.16	458
	Total Composite rate 1.2 times of item 27-1(f)	1,502.10	1,502
	e) 12" (300 mm) inner dia.		
	Total Labour rate 1.15 times of item 27-1(g)	548.84	549
	Total Composite rate 1.15 times of item 27-1(g)	1,799.41	1,799
	f) 15" (375 mm) inner dia.		
	Total Labour rate 1.15 times of item 27-1(h)	686.03	686
	Total Composite rate 1.15 times of item 27-1(h)	2,249.29	2,249
	g) 18" (450 mm) inner dia.		
	Total Labour rate 1.15 times of item 27-1(i)	857.56	858
	Total Composite rate 1.15 times of item 27-1(i)	2,811.64	2,812

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 27-3

R.M. Boring for tubewell in all types of soil except shingle, gravel and rock from depth 200 ft. to 300 ft. (60m to 90m.) below ground level including sinking and withdrawing of casing pipe

a) 5" (125 mm) inner dia.

Total Labour rate 1.35 times of item 27-2(a) 351.34 **351**

Total Composite rate 1.35 times of item 27-2(a) 1,021.41 **1,021**

b) 6" (150 mm) inner dia.

Total Labour rate 1.25 times of item 27-2(b) 459.31 **459**

Total Composite rate 1.25 times of item 27-2(b) 1,442.00 **1,442**

c) 8" (200 mm) inner dia.

Total Labour rate 1.25 times of item 27-2(c) 496.38 **496**

Total Composite rate 1.25 times of item 27-2(c) 1,627.25 **1,627**

d) 10" (250 mm) inner dia.

Total Labour rate 1.2 times of item 27-2(d) 549.78 **550**

Total Composite rate 1.2 times of item 27-2(d) 1,802.52 **1,803**

e) 12" (300 mm) inner dia.

Total Labour rate 1.2 times of item 27-2(e) 658.62 **659**

Total Composite rate 1.2 times of item 27-2(e) 2,159.28 **2,159**

f) 15" (375 mm) inner dia.

Total Labour rate 1.1 times of item 27-2(f) 754.66 **755**

Total Composite rate 1.1 times of item 27-2(f) 2,474.23 **2,474**

g) 18" (450 mm) inner dia.

Total Labour rate 1.1 times of item 27-2(g) 943.31 **943**

Total Composite rate 1.1 times of item 27-2(g) 3,092.82 **3,093**

Item No. 27-4

R.M. Boring for tubewell by Percussion boring rig in all types of soil except shingle, gravel and rock from ground bed from 400 ft upto 1400ft depth including sinking and withdrawing casing pipe & disposal of excavated material within 100ft (30m)

a) 8" (200 mm) inner dia.

For 10 Rm

1. Labour

Technician 2.22 Hrs @ 150.00 333.33

Foreman Concrete 2.96 Hrs @ 125.00 370.37

Supervisor 2.96 Hrs @ 50.00 148.15

Helper 2.00 Hrs @ 140.00 280.00

Welder 2.96 Hrs @ 125.00 370.37

Mason 2.22 Hrs @ 125.00 277.78

Labourer 5.00 Hrs @ 43.00 215.00

1,995.00

Contractor's profit & overhead 20% 399.00

Total Labour rate 239.40 **239**

2. Tools and material

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Bull-Dozer	0.10	Hrs @	3597.00	359.70
	Excavator	0.10	Hrs @	2500.00	250.00
	Dump Truck	0.10	Hrs @	1542.00	154.20
	Crane 20 T	0.10	Hrs @	1900.00	190.00
	Percussion boring rig	10.00	Hrs @	750.00	7,500.00
					8,453.90
	3. Materials				
	Electric Charges	50.00	KWH @	25.00	1,250.00
					1,250.00
	Total of 2 & 3				9,703.90
	Mobilization and demobilization of Piling Equipment including clearing of Site			6%	582.23
	Contractor's profit & overhead			20%	2,057.23
	Total Composite rate per RM				1,473.74
					1,474
b)	10" (250 mm) inner dia.				
	Total Labour rate 1.2 times of item 27-4(a)				287.28
					287
	Total Composite rate 1.2 times of item 27-4(a)				1,768.48
					1,769
c)	12" (300 mm) inner dia.				
	Total Labour rate 1.2 times of item 27-4(b)				344.74
					345
	Total Composite rate 1.2 times of item 27-4(b)				2,122.18
					2,122
d)	15" (375 mm) inner dia.				
	Total Labour rate 1.2 times of item 27-4(c)				413.68
					414
	Total Composite rate 1.2 times of item 27-4(c)				2,546.62
					2,547
e)	18" (450 mm) inner dia.				
	Total Labour rate 1.2 times of item 27-4(d)				496.42
					496
	Total Composite rate 1.2 times of item 27-4(d)				3,055.94
					3,056
f)	20" (500 mm) inner dia.				
	Total Labour rate 1.2 times of item 27-4(e)				595.70
					596
	Total Composite rate 1.2 times of item 27-4(e)				3,667.13
					3,667
g)	22" (550 mm) inner dia.				
	Total Labour rate 1.2 times of item 27-4(f)				714.84
					715
	Total Composite rate 1.2 times of item 27-4(f)				4,400.55
					4,401

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 27-5					
R.M.	Drilling of bore in all types of soil except shingle, gravel and rock.				
a)	From ground level upto 250 ft. (75 m) below ground level				
i)	(370 mm to 450 mm) i/d				
	For 10 Rm				
	1. Labour				
	Technician	3.00	Hrs @	150.00	450.00
	Foreman Concrete	4.00	Hrs @	125.00	500.00
	Supervisor	4.00	Hrs @	50.00	200.00
	Helper	10.00	Hrs @	140.00	1,400.00
	Welder	4.00	Hrs @	125.00	500.00
	Mason	3.00	Hrs @	125.00	375.00
	Labourer	25.00	Hrs @	43.00	1,075.00
					4,500.00
	Contractor's profit & overhead		20%		900.00
	Total Labour rate			5,400.00	5,400
	2. Tools and material				
	Bull-Dozer	1.00	Hrs @	3597.00	3,597.00
	Excavator	1.00	Hrs @	2500.00	2,500.00
	Dump Truck	1.00	Hrs @	1542.00	1,542.00
	Crane 20 T	1.00	Hrs @	1900.00	1,900.00
	Piling Rig for Piling	5.00	Hrs @	1000.00	5,000.00
	Pump 4" Delivery (Diesel)	32.00	Hrs @	625.00	20,000.00
					34,539.00
	3. Materials				
	Soil Class A-4	25.00	Cum @	420.00	10,500.00
	Water	600.00	Litre @	5.00	3,000.00
	Bentonite Powder	30.00	Kg @	8.00	240.00
	Electric Charges	50.00	KWH @	25.00	1,250.00
					14,990.00
	Total of 2 & 3				49,529.00
	Mobilization and demobilization of Piling Equipment including clearing of Site		6%		2,971.74
	Contractor's profit & overhead		20%		10,500.15
	Total Composite rate per RM			6,300.09	6,300
	ii) (500 mm to 700 mm) i/d				
	Rate 10 % more on item 27-7(a)i		10%		630.01
	Total Composite rate per RM			6,930.11	6,930
b)	Exceeding 250 ft (75 m.) depth below ground level				
i)	(375 mm to 450 mm) i/d				
	Rate same as per item 27-7(a)i				
	Add extra for more depth		30%		1,890.03
	Total Composite rate			8190.13	8,190
ii)	(500 mm to 750 mm) i/d				
	Rate same as per item 27-7(a)ii				
	Add extra for more depth		30%		2,079.03
	Total Composite rate			9009.13	9,009

Unit	Description	Component Cost		Unit	Rate
		(Rs)		(Rs)	
R.M.	Item No. 27-6 Drilling for boring/Pilling in shingle, gravel				
	a) From ground level upto 250 ft. (75 m) below ground level				
	i) (370 mm to 450 mm) i/d Total Composite rate 1.5 times of item 27-5a(i)	9450.15			9,450
	ii) (500 mm to 750 mm) i/d Total Composite rate 1.5 times of item 27-5a(ii)	10395.15			10,395
	b) Exceeding 250 ft (75 m.) depth below ground level				
	i) (370 mm to 450 mm) i/d Total Composite rate 1.5 times of item 27-5b(i)	12285.23			12,285
	ii) (500 mm to 750 mm) i/d Total Composite rate 1.5 times of item 27-5b(ii)	13513.73			13,514
R.M.	Item No. 27-7 Drilling of boring/pilling in all types of soil except shingle, gravel and rock.				
	a) From ground level upto 250 ft. (75 m) below ground level				
	i) (1000 mm to 1250 mm) i/d				
	For 10 Rm				
	1. Labour				
	Technician	8.00	Hrs @	150.00	1,200.00
	Foreman Concrete	10.00	Hrs @	125.00	1,250.00
	Supervisor	10.00	Hrs @	50.00	500.00
	Helper	32.00	Hrs @	140.00	4,480.00
	Welder	6.00	Hrs @	125.00	750.00
	Mason	3.00	Hrs @	125.00	375.00
	Labourer	70.00	Hrs @	43.00	3,010.00
					11,565.00
	Contractor's profit & overhead		20%		2,313.00
	Total Labour rate			13,878.00	13,878
	2. Tools and material				
	Bull-Dozer	1.00	Hrs @	3597.00	3,597.00
	Excavator	2.00	Hrs @	2500.00	5,000.00
	Dump Truck	1.00	Hrs @	1542.00	1,542.00
	Crane 20 T	3.00	Hrs @	1900.00	5,700.00
	Piling Rig for Pilling	16.00	Hrs @	1000.00	16,000.00
	Pump 4" Delivery (Diesel)	48.00	Hrs @	625.00	30,000.00
					61,839.00
	3. Materials				
	Soil Class A-4	35.00	Cum @	420.00	14,700.00
	Water	1000.00	1000 L @	5.00	5,000.00
	Bentonite Powder	45.00	Kg @	8.00	360.00
	Electric Charges	66.00	KWH @	25.00	1,650.00
					21,710.00
	Total of 2 & 3			83,549.00	
	Mobilization and demobilization of Piling Equipment including clearing of Site		6%		5,012.94
	Contractor's profit & overhead		20%		17,712.39
	Total Composite rate per RM			10,627.43	10,627

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	ii) (1200 mm to 1500 mm) i/d				
	Rate 10 % more on item 27-8(a)i	10%	1,062.75		
	Total Composite rate per RM		11,690.20		11,690
	b) Exceeding 250 ft (75 m.) depth below ground level				
	i) (1000 mm to 1200 mm) i/d				
	Rate same as per item 27-7(a)i		10,627.45		
	Add extra for more depth	30%	3,188.24		
	Total Composite rate		13815.69		13,816
	ii) (1200 mm to 1500 mm) i/d				
	Rate same as per item 27-7(a)ii		11,690.20		
	Add extra for more depth	30%	3,507.06		
	Total Composite rate		15197.26		15,197
	Item No. 27-8				
R.M.	Drilling for boring/Pilling in shingle, gravel				
	a) From ground level upto 250 ft. (75 m) below ground level				
	i) (1000 mm to 1200 mm) i/d				
	Total Composite rate 1.5 times of item 27-7a(i)		15941.18		15,941
	ii) (1200 mm to 1500 mm) i/d				
	Total Composite rate 1.5 times of item 27-7a(ii)		17535.30		17,535
	b) Exceeding 250 ft (75 m.) depth below ground level				
	i) (370 mm to 450 mm) i/d				
	Total Composite rate 1.5 times of item 27-7 b(i)		20723.55		20,724
	ii) (1200 mm to 1500 mm) i/d				
	Total Composite rate 1.5 times of item 27-7 b(ii)		22795.88		22,796
	Item No. 27-9				
Each	Providing box 48"x 30"x 9" (1.2m x 0.75m x 0.23m) of deodar wood planks with compartment 4" x 4" (100mm x 100mm) including locking arrangement for preserving strata samples from borehole and painted with two coats of paint. The top and bottom of the box to be of 1/2" (12mm) planks, sides and compartments to be of 1/4" (6mm) planks.				
	1. Labour				
	Carpenter	7.78	Hrs @ 125.00		972.50
	Painter	1.00	Hrs @ 125.00		125.00
					1,097.50
	Contractor's profit & overhead		20%		219.50
	Total Labour rate				1,317.00
	2. Material				
	Deodar wood				
	Top & bottom	2x4.08x2.58x1/2"x1/12	3.86	Cu.ft.	
	Sides	2(4+5/2)x9/12x1/4x1/12	0.20	Cu.ft.	
	Compartment	12x5/2x9/12x1/4x1/12	0.47	Cu.ft.	
	Compartment	8x4x9/12x1/4x1/12	0.50	Cu.ft.	
			5.03	Cu.ft.	
	Wastage	0.15	0.31	Cu.ft.	
			5.34	Cu.ft.	
	Wood - deodar 1st		5.34	Cu.ft. @ 5000.00	26,709.38
	Sawing charges		5.34	Cu.ft. @ 87.50	467.41
	Nails			1%	267.09
	Locking arrangement + hinges			5%	1,335.47
	Paint etc.			35%	9,348.28
					38,127.63
	Contractor's profit & overhead		20%		7,625.53

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		47,070.16		47,070
	Item No. 27-10				
Per set of two bottles	Furnishing sample of water from bore hole.				
	1. Labour				
	Skilled labourer	0.53	Hrs @ 90.00		47.70
	Contractor's profit &		20%		9.54
	Total Labour rate				57.24
	2. Material				
	Bottle for sampling	1.00	No. @ 40.00		40.00
	Contractor's profit & overhead		20%		8.00
	Total Composite rate				105.24
	Item No. 27-11				
R.M.	Providing and installing MS strainer in tubewell bore hole including specials, sockets and studs of the nominal inner diameter.				
	a) 2" (50 mm) dia. and 5/32" (4 mm) wall thickness				
	1. Labour				
	Pipe fitter	0.56	Hrs @ 125.00		70.00
	Labourer	0.60	Hrs @ 87.50		52.50
					122.50
	Contractor's profit & overhead		20%		24.50
	Total Labour rate				147.00
	2. Material				
	MS strainer 50 mm dia	1.00	R.M. @ 1114.65		1,114.65
	Jointing material		2%		22.29
					1,136.94
	Contractor's profit & overhead		20%		227.39
	Total Composite rate				1,511.33
	b) 3" (75 mm) dia. and 5/32" (4 mm) wall thickness				
	1. Labour				
	Total Labour rate		Same as in item 27-11(a)		147.00
	2. Material				
	MS strainer 75 mm dia	1.00	R.M. @ 1601.85		1,601.85
	Jointing material		2%		32.04
					1,633.89
	Contractor's profit & overhead		20%		326.78
	Total Composite rate				2,107.66
	c) 4" (100 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Total Labour rate		Same as in item 27-11(a)		147.00
	2. Material				
	MS strainer 100 mm dia	1.00	R.M. @ 2125.96		2,125.96
	Jointing material		2%		42.52
					2,168.48
	Contractor's profit & overhead		20%		433.70
	Total Composite rate				2,749.18
	d) 5" (125 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Total Labour rate		Same as in item 27-11(a)		147.00
	2. Material				
	MS strainer 125 mm dia	1.00	R.M. @ 4237.15		4,237.15
	Jointing material		2%		84.74

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		20%	4,321.89	
	Total Composite rate			864.38	
				5,333.27	5,333
e)	6" (150 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 150 mm dia	1.00	R.M. @	5004.86	5,004.86
	Jointing material			2%	100.10
					5,104.96
	Contractor's profit & overhead		20%	1,020.99	
	Total Composite rate			6,272.95	6,273
f)	7" (175 mm) dia and 3/16" (5 mm) thick				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 175 mm dia	1.00	R.M. @	5839.00	5,839.00
	Jointing material			2%	116.78
					5,955.78
	Contractor's profit & overhead		20%	1,191.16	
	Total Composite rate			7,293.94	7,294
g)	8" (200 mm) dia and 3/16" (5 mm) thick				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 200 mm dia	1.00	R.M. @	7241.55	7,241.55
	Jointing material			2%	144.83
					7,386.38
	Contractor's profit & overhead		20%	1,477.28	
	Total Composite rate			9,010.66	9,011
h)	9" (225 mm) dia and 3/16" (5 mm) thick				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 225 mm dia	1.00	R.M. @	8311.91	8,311.91
	Jointing material			2%	166.24
					8,478.15
	Contractor's profit & overhead		20%	1,695.63	
	Total Composite rate			10,320.78	10,321
i)	10" (250 mm) dia and 3/16" (5 mm) thick				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 250 mm dia	1.00	R.M. @	10902.92	10,902.92
	Jointing material			2%	218.06
					11,120.98
	Contractor's profit & overhead		20%	2,224.20	
	Total Composite rate			13,492.17	13,492
J)	12" (300 mm) dia and 1/4" (6 mm) thick				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 300 mm dia	1.00	R.M. @ 16033.27	16,033.27	
	Jointing material		2%	320.67	
				<u>16,353.94</u>	
	Contractor's profit & overhead		20%	3,270.79	
	Total Composite rate			<u>19,771.72</u>	19,772
	k) 15" (375 mm) dia and 1/4" (6 mm) thick				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 375 mm dia	1.00	R.M. @ 19930.86	19,930.86	
	Jointing material		2%	398.62	
				<u>20,329.48</u>	
	Contractor's profit & overhead		20%	4,065.90	
	Total Composite rate			<u>24,542.37</u>	24,542
	l) 18" (450 mm) dia and 1/4" (6 mm) thick				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 450 mm dia	1.00	R.M. @ 22145.40	22,145.40	
	Jointing material		2%	442.91	
				<u>22,588.31</u>	
	Contractor's profit & overhead		20%	4,517.66	
	Total Composite rate			<u>27,252.97</u>	27,253
	m) 20" (500 mm) dia and 1/4" (6 mm) thick				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 500 mm dia	1.00	R.M. @ 24359.94	24,359.94	
	Jointing material		2%	487.20	
				<u>24,847.14</u>	
	Contractor's profit & overhead		20%	4,969.43	
	Total Composite rate			<u>29,963.57</u>	29,964
	n) 22" (550 mm) dia and 1/4" (6 mm) thick				
	1. Labour				
	Total Labour rate	Same as in item 27-11(a)		147.00	147
	2. Material				
	MS strainer 550 mm dia	1.00	R.M. @ 26500.00	26,500.00	
	Jointing material		2%	530.00	
				<u>27,030.00</u>	
	Contractor's profit & overhead		20%	5,406.00	
	Total Composite rate			<u>32,583.00</u>	32,583
Each	Item No. 27-12				
	Providing and installing M.S. bail plug in tubewell bore hole 1.5 ft. (50cm) long and of the nominal inner diameter.				
	a) 2" (50 mm) inner dia.				
	1. Labour				
	Pipe fitter	1.02	Hrs @ 125.00	127.50	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Labourer	1.10	Hrs @ 87.50	96.25	
				223.75	
	Contractor's profit & overhead		20%	44.75	
	Total Labour rate			268.50	269
	2. Material				
	M.S. bail plug 50 mm dia.	1.00	No. @ 449.47	449.47	
	Jointing material		2%	8.99	
				458.46	
	Contractor's profit & overhead		20%	91.69	
	Total Composite rate			818.65	819
b)	3" (75 mm) dia.				
	1. Labour				
	Total Labour rate Same as in item 27-12(a)			268.50	269
	2. Material				
	M.S. bail plug 75 mm dia.	1.00	No. @ 675.84	675.84	
	Jointing material		2%	13.52	
				689.36	
	Contractor's profit & overhead		20%	137.87	
	Total Composite rate			1,095.73	1,096
c)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-12(a)			268.50	688
	2. Material				
	M.S. bail plug 100 mm dia.	1.00	No. @ 1207.33	1,207.33	
	Jointing material		2%	24.15	
				1,231.48	
	Contractor's profit & overhead		20%	246.30	
	Total Composite rate			1,746.27	1,746

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
d) 5" (125 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-12(a)		268.50		269
2. Material					
M.S. bail plug 125 mm dia.	1.00 No. @	1591.19	1,591.19		
Jointing material		2%	31.82		
			<u>1,623.01</u>		
Contractor's profit & overhead		20%	324.60		
Total Composite rate			<u>2,216.12</u>		2,216
e) 6" (150 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-12(a)		268.50		1,107
2. Material					
M.S. bail plug 150 mm dia.	1.00 No. @	1886.46	1,886.46		
Jointing material		2%	37.73		
			<u>1,924.19</u>		
Contractor's profit & overhead		20%	384.84		
Total Composite rate			<u>2,577.53</u>		2,578
f) 7" (175 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-12(a)		268.50		269
2. Material					
M.S. bail plug 175 mm dia.	1.00 No. @	2263.75	2,263.75		
Jointing material		2%	45.28		
			<u>2,309.03</u>		
Contractor's profit & overhead		20%	461.81		
Total Composite rate			<u>3,039.33</u>		3,039
g) 8" (200 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-12(a)		268.50		269
2. Material					
M.S. bail plug 200 mm dia.	1.00 No. @	2460.60	2,460.60		
Jointing material		2%	49.21		
			<u>2,509.81</u>		
Contractor's profit & overhead		20%	501.96		
Total Composite rate			<u>3,280.27</u>		3,280
h) 9" (225 mm) dia.					
1. Labour					
Total Labour rate	Same as in item 27-12(a)		268.50		269
2. Material					
M.S. bail plug 225 mm dia.	1.00 No. @	2788.68	2,788.68		
Jointing material		2%	55.77		
			<u>2,844.45</u>		
Contractor's profit & overhead		20%	568.89		
Total Composite rate			<u>3,681.84</u>		3,682
i) 10" (250 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-12(a)		268.50		2,034

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	M.S. bail plug 250 mm dia.	1.00	No. @	3838.54	3,838.54
	Jointing material			2%	76.77
					<u>3,915.31</u>
	Contractor's profit & overhead			20%	783.06
	Total Composite rate				<u>4,966.87</u> 4,967
	j) 12" (300 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-12(a)		268.50 269
	2. Material				
	M.S. bail plug 300 mm	1.00	No. @	4625.93	4,625.93
	Jointing material			2%	92.52
					<u>4,718.45</u>
	Contractor's profit & overhead			20%	943.69
	Total Composite rate				<u>5,930.64</u> 5,931
	Item No. 27-13				
R.M.	Providing and installing fibre glass strainer in tubewell bore hole including sockets and solvents.				
	a) 8" (200 mm) dia. and 0.2" (5 mm) wall thickness				
	1. Labour				
	Pipe fitter	0.75	Hrs @	125.00	93.75
	Labourer	0.50	Hrs @	87.50	43.75
					<u>137.50</u>
	Contractor's profit & overhead			20%	27.50
	Total Labour rate				<u>165.00</u> 165
	2. Material				
	Fibre glass strainer 200 mm dia.	1.00	R.M. @	3308.00	3,308.00
	Socket and/or coupling			7.5%	248.10
	Jointing material			1%	33.08
					<u>3,589.18</u>
	Contractor's profit & overhead			20%	717.84
	Total Composite rate				<u>4,472.02</u> 4,472
	b) 10" (250 mm) dia. and 0.2" to 0.22" (5 mm to 5.5 mm) wall thickness				
	1. Labour				
	Total Labour rate		Same as in item 27-13(a)		165.00 165
	2. Material				
	Fibre glass strainer 250 mm dia.	1.00	R.M. @	3675.00	3,675.00
	Socket and/or coupling			7.5%	275.63
	Jointing material			1%	36.75
					<u>3,987.38</u>
	Contractor's profit & overhead			20%	797.48
	Total Composite rate				<u>4,949.85</u> 4,950

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 27-14

Providing and installing fibre glass bail/end plug in tubewell bore.

a) 8" (200 mm) i/d

1. Labour

Total Labour rate	Same as in item 27-13(a)	165.00	165
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2. Material

Fibre glass end plug	1.00	No.	@	5250.00	5,250.00
Jointing material				1%	52.50
					5,302.50

Contractor's profit & overhead				20%	1,060.50
Total Composite rate					6,528.00

b) 10" (250 mm) inner dia.

1. Labour

Total Labour rate	Same as in item 27-13(a)	165.00	165
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2. Material

Fibre glass end plug 250 mm dia.	1.00	No.	@	5250.00	5,250.00
Jointing material				1%	52.50
					5,302.50

Contractor's profit & overhead				20%	1,060.50
Total Composite rate					6,528.00

Item No. 27-15**R.M. Providing and installing fibre glass blank pipe in tubewell bore hole including coupling and jointing with strainer.****a) 8" (200 mm) dia. and 3/16" (5 mm) wall thickness**

1. Labour

Total Labour rate	Same as in item 27-13(a)	165.00	165
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2. Material

Fibre glass blank pipe 200 mm dia.	1.00	R.M.	@	3150.00	3,150.00
Coupling				7.5%	236.25
Jointing material				1%	31.50
					3,417.75

Contractor's profit & overhead				20%	683.55
Total Composite rate					4,266.30

b) 10" (250 mm) dia. with 3/16" (5 mm) wall thickness

1. Labour

Total Labour rate	Same as in item 27-13(a)	165.00	165
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2. Material

Fibre glass blank pipe 250 mm dia.	1.00	R.M.	@	3300.00	3,300.00
Coupling				7.5%	247.50
Jointing material				1%	33.00
					3,580.50

Contractor's profit & overhead				20%	716.10
Total Composite rate					4,461.60

c) 14" (350 mm) dia. and 3/16" to 1/4" (5 mm to 6 mm) wall thickness

1. Labour

Total Labour rate	Same as in item 27-13(a)	165.00	165
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2. Material

Fibre glass blank pipe 350 mm dia.	1.00	R.M.	@	5250.00	5,250.00
Coupling				7.5%	393.75
Jointing material				1%	52.50

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
				5,696.25	
	Contractor's profit & overhead		20%	1,139.25	
	Total Composite rate			7,000.50	7,001
R.M.	Item No. 27-16				
	Providing and installing uPVC strainer in tubewell bore hole including sockets and solvent registered with PSQCA of the nominal inner diameter.				
	a) Class B				
	i) 3" (75 mm) dia				
	1. Labour				
	Pipe fitter	0.09	Hrs @	125.00	11.25
	Labourer	0.01	Hrs @	87.50	0.88
					12.13
	Contractor's profit & overhead		20%	2.43	
	Total Labour rate			14.55	15
	2. Material				
	U-PVC strainer 75 mm dia	1.00	R.M. @	314.40	314.40
	Jointing material		2%	6.29	
					320.69
	Contractor's profit & overhead		20%	64.14	
	Total Composite rate			399.38	399
	ii) 4" (100 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-16(a)	14.55	15
	2. Material				
	U-PVC strainer 100 mm dia	1.00	R.M. @	477.60	477.60
	Jointing material		2%	9.55	
					487.15
	Contractor's profit & overhead		20%	97.43	
	Total Composite rate			599.13	599
	iii) 5" (125 mm) dia				
	1. Labour				
	Pipe fitter	0.38	Hrs @	125.00	47.50
	Labourer	0.75	Hrs @	87.50	65.63
					113.13
	Contractor's profit & overhead		20%	22.63	
	Total Labour rate			135.75	136
	2. Material				
	U-PVC strainer 125 mm dia	1.00	R.M. @	668.80	668.80
	Jointing material		2%	13.38	
					682.18
	Contractor's profit & overhead		20%	136.44	
	Total Composite rate			954.36	954

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
iv) 6" (150 mm) dia					
1. Labour					
Pipe fitter	0.15 Hrs @	125.00		18.75	
Labourer	0.20 Hrs @	87.50		17.50	
				36.25	
Contractor's profit & overhead		20%		7.25	
Total Labour rate				43.50	44
2. Material					
U-PVC strainer 150 mm dia	1.00 R.M. @	936.80		936.80	
Jointing material		2%		18.74	
				955.54	
Contractor's profit & overhead		20%		191.11	
Total Composite rate				1,190.14	1,190
v) 8" (200 mm) dia					
1. Labour					
Pipe fitter	0.20 Hrs @	125.00		25.00	
Labourer	0.55 Hrs @	87.50		48.13	
				73.13	
Contractor's profit & overhead		20%		14.63	
Total Labour rate				87.75	88
2. Material					
U-PVC strainer 200 mm dia	1.00 R.M. @	1430.40		1,430.40	
Jointing material		2%		28.61	
				1,459.01	
Contractor's profit & overhead		20%		291.80	
Total Composite rate				1,838.56	1,839
vi) 10" (250 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-16(a)5			87.75	88
2. Material					
U-PVC strainer 250 mm dia	1.00 R.M. @	2309.60		2,309.60	
Jointing material		2%		46.19	
				2,355.79	
Contractor's profit & overhead		20%		471.16	
Total Composite rate				2,914.70	2,915
vii) 12" (300 mm) dia					
1. Labour					
Pipe fitter	0.24 Hrs @	125.00		29.38	
Labourer	1.20 Hrs @	87.50		105.00	
				134.38	
Contractor's profit & overhead		20%		26.88	
Total Labour rate				161.25	161
2. Material					
U-PVC strainer 300 mm dia	1.00 R.M. @	3207.20		3,207.20	
Jointing material		2%		64.14	
				3,271.34	
Contractor's profit & overhead		20%		654.27	
Total Composite rate				4,086.86	4,087

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
viii) 14" (350 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-16(a)7			161.25	161
2. Material					
U-PVC strainer 350 mm dia	1.00 R.M. @	4068.00		4,068.00	
Jointing material		2%		81.36	
				<u>4,149.36</u>	
Contractor's profit & overhead		20%		829.87	
Total Composite rate				<u>5,140.48</u>	5,141
b) Class D					
i) 1.25" (30 mm) inner dia.					
1. Labour					
Pipe fitter	0.05 Hrs @	125.00		6.25	
Labourer	0.01 Hrs @	87.50		0.88	
				<u>7.13</u>	
Contractor's profit & overhead		20%		1.43	
Total Labour rate				<u>8.55</u>	9
2. Material					
U-PVC strainer 30 mm dia	1.00 R.M. @	116.80		116.80	
Jointing material		2%		2.34	
				<u>119.14</u>	
Contractor's profit & overhead		20%		23.83	
Total Composite rate				<u>151.51</u>	152
ii) 1.5" (40 mm) inner dia.					
1. Labour					
Total Labour rate	Same as in item 27-16(b)1			8.55	9
2. Material					
U-PVC strainer 40 mm dia	1.00 R.M. @	144.35		144.35	
Jointing material		2%		2.89	
				<u>147.24</u>	
Contractor's profit & overhead		20%		29.45	
Total Composite rate				<u>185.24</u>	185
iii) 2" (50 mm) dia					
1. Labour					
Pipe fitter	0.10 Hrs @	125.00		12.50	
Labourer	0.01 Hrs @	87.50		0.88	
				<u>13.38</u>	
Contractor's profit & overhead		20%		2.68	
Total Labour rate				<u>16.05</u>	16
2. Material					
U-PVC strainer 50 mm dia	1.00 R.M. @	220.47		220.47	
Jointing material		2%		4.41	
				<u>224.88</u>	
Contractor's profit & overhead		20%		44.98	
Total Composite rate				<u>285.91</u>	286
iv) 3" (75 mm) dia					
1. Labour					
Pipe fitter	0.10 Hrs @	125.00		12.50	
Labourer	0.06 Hrs @	87.50		5.25	
				<u>17.75</u>	
Contractor's profit & overhead		20%		3.55	
Total Labour rate				<u>21.30</u>	21
2. Material					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	U-PVC strainer 75 mm dia	1.00	R.M. @	328.08	328.08
	Jointing material			2%	6.56
					<u>334.64</u>
	Contractor's profit & overhead			20%	66.93
	Total Composite rate				<u>422.87</u> 423
v)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-16(b)4		21.30 21
	2. Material				
	U-PVC strainer 100 mm dia	1.00	R.M. @	488.18	488.18
	Jointing material			2%	9.76
					<u>497.95</u>
	Contractor's profit & overhead			20%	99.59
	Total Composite rate				<u>618.84</u> 619
vi)	5" (125 mm) dia				
	1. Labour				
	Pipe fitter	0.20	Hrs @	125.00	25.00
	Labourer	0.10	Hrs @	87.50	8.75
					<u>33.75</u>
	Contractor's profit & overhead			20%	6.75
	Total Labour rate				<u>40.50</u> 41
	2. Material				
	U-PVC strainer 125 mm dia	1.00	R.M. @	813.64	813.64
	Jointing material			2%	16.27
					<u>829.91</u>
	Contractor's profit & overhead			20%	165.98
	Total Composite rate				<u>1,036.40</u> 1,036
vii)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-16(b)6		40.50 41
	2. Material				
	U-PVC strainer 150 mm dia	1.00	R.M. @	1209.96	1,209.96
	Jointing material			2%	24.20
					<u>1,234.16</u>
	Contractor's profit & overhead			20%	246.83
	Total Composite rate				<u>1,521.49</u> 1,522
Each	Item No. 27-17				
	Providing and installing uPVC elbow of approved make registered with PSQCA.				
a)	Class B				
i)	3" (75 mm) dia				
	1. Labour				
	Pipe fitter	0.15	Hrs @	125.00	18.75
	Labourer	0.30	Hrs @	87.50	26.25
					<u>45.00</u>
	Contractor's profit & overhead			20%	9.00
	Total Labour rate				<u>54.00</u> 54
	2. Material				
	U-PVC elbow 80 mm dia	1.00	No. @	146.38	146.38
	Jointing material			2%	2.93
					<u>149.30</u>
	Contractor's profit & overhead			20%	29.86
	Total Composite rate				<u>233.16</u> 233

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
ii) 4" (100 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-17(a)1			54.00	54
2. Material					
U-PVC elbow 100 mm dia	1.00 No. @	186.80		186.80	
Jointing material		2%		3.74	
				<u>190.54</u>	
Contractor's profit & overhead		20%		38.11	
Total Composite rate				<u>228.64</u>	283
iii) 5" (125 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-17(a)1			54.00	54
2. Material					
U-PVC elbow 125 mm dia	1.00 No. @	429.35		429.35	
Jointing material		2%		8.59	
				<u>437.94</u>	
Contractor's profit & overhead		20%		87.59	
Total Composite rate				<u>525.52</u>	580
iv) 6" (150 mm) dia					
1. Labour					
Pipe fitter	0.20 Hrs @	125.00		25.00	
Labourer	0.40 Hrs @	87.50		35.00	
				<u>60.00</u>	
Contractor's profit & overhead		20%		12.00	
Total Labour rate				<u>72.00</u>	72
2. Material					
U-PVC elbow 150 mm dia	1.00 No. @	579.50		579.50	
Jointing material		2%		11.59	
				<u>591.09</u>	
Contractor's profit & overhead		20%		118.22	
Total Composite rate				<u>709.31</u>	781
v) 8" (200 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-17(a)4			72.00	72
2. Material					
U-PVC elbow 200 mm dia	1.00 No. @	4333.25		4,333.25	
Jointing material		2%		86.67	
				<u>4,419.92</u>	
Contractor's profit & overhead		20%		883.98	
Total Composite rate				<u>5,303.90</u>	5,376

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
vi) 10" (250 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-17(a)4			72.00	72
2. Material					
U-PVC elbow 250 mm dia	1.00 No. @	5026.25		5,026.25	
Jointing material		2%		100.53	
				<u>5,126.78</u>	
Contractor's profit & overhead		20%		1,025.36	
Total Composite rate				<u>6,224.13</u>	6,224
vii) 12" (300 mm) dia					
1. Labour					
Pipe fitter	0.30 Hrs @	125.00		37.50	
Labourer	0.60 Hrs @	87.50		52.50	
				<u>90.00</u>	
Contractor's profit & overhead		20%		18.00	
Total Labour rate				<u>108.00</u>	108
2. Material					
U-PVC elbow 300 mm dia	1.00 No. @	7278.50		7,278.50	
Jointing material		2%		145.57	
				<u>7,424.07</u>	
Contractor's profit & overhead		20%		1,484.81	
Total Composite rate				<u>9,016.88</u>	9,017
viii) 14" (350 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-17(a)7			108.00	108
2. Material					
U-PVC elbow 350 mm dia	1.00 No. @	10974.50		10,974.50	
Jointing material		2%		219.49	
				<u>11,193.99</u>	
Contractor's profit & overhead		20%		2,238.80	
Total Composite rate				<u>13,540.79</u>	13,541
b) Class D					
i) 1.25" (30 mm) dia					
1. Labour					
Pipe fitter	0.10 Hrs @	125.00		12.50	
Labourer	0.20 Hrs @	87.50		17.50	
				<u>30.00</u>	
Contractor's profit & overhead		20%		6.00	
Total Labour rate				<u>36.00</u>	36
2. Material					
U-PVC elbow 30 mm dia	1.00 No. @	71.30		71.30	
Jointing material		2%		1.43	
				<u>72.73</u>	
Contractor's profit & overhead		20%		14.55	
Total Composite rate				<u>123.27</u>	123
ii) 1.5" (40 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-17(b)1			36.00	36
2. Material					
U-PVC elbow 40 mm dia	1.00 No. @	94.40		94.40	
Jointing material		2%		1.89	
				<u>96.29</u>	
Contractor's profit & overhead		20%		19.26	

Unit	Description	Component Cost		Unit	Rate
		(Rs)		(Rs)	
	Total Composite rate			151.55	152
iii)	2" (50 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-17(b)1			36.00	36
	2. Material				
	U-PVC elbow 50 mm dia	1.00	No. @	117.50	117.50
	Jointing material			2%	2.35
					<u>119.85</u>
	Contractor's profit & overhead			20%	23.97
	Total Composite rate			<u>179.82</u>	180
iv)	3" (75 mm) dia				
	1. Labour				
	Pipe fitter	0.15	Hrs @	125.00	18.75
	Labourer	0.30	Hrs @	87.50	26.25
					<u>45.00</u>
	Contractor's profit & overhead			20%	9.00
	Total Labour rate			<u>54.00</u>	54
	2. Material				
	U-PVC elbow 75 mm dia	1.00	No. @	284.98	284.98
	Jointing material			2%	5.70
					<u>290.67</u>
	Contractor's profit & overhead			20%	58.13
	Total Composite rate			<u>402.81</u>	403
v)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-17(b)4			54.00	54
	2. Material				
	U-PVC elbow 100 mm dia	1.00	No. @	348.50	348.50
	Jointing material			2%	6.97
					<u>355.47</u>
	Contractor's profit & overhead			20%	71.09
	Total Composite rate			<u>480.56</u>	481
vi)	5" (125 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-17(b)4			54.00	54
	2. Material				
	U-PVC elbow 125 mm dia	1.36	No. @	317.32	431.55
	Jointing material			2%	8.63
					<u>440.18</u>
	Contractor's profit & overhead			20%	88.04
	Total Composite rate			<u>582.22</u>	582
vii)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-17(b)4			54.00	54

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	U-PVC elbow 150 mm dia	1.00	No. @	530.99	530.99
	Jointing material			2%	10.62
					541.61
	Contractor's profit & overhead			20%	108.32
	Total Composite rate				703.93
					704
R.M.	Item No. 27-18				
	Providing and installing M.S. blind pipe socketed seamless welded joint or hand welded joint, M.S. reducer where necessary in tubewell bore hole including jointing and welding with strainer of the nominal inner diameter.				
	a) 2" (50 mm) dia. and 1/8" (3 mm) wall thickness				
	1. Labour				
	Pipe fitter	1.29	Hrs @	125.00	161.25
	Labourer	1.00	Hrs @	87.50	87.50
					248.75
	Contractor's profit & overhead			20%	49.75
	Total Labour rate				298.50
					299
	2. Material				
	M.S. blind pipe 50 mm dia	1.00	R.M. @	1114.65	1,114.65
	Jointing material			3%	33.44
					1,148.09
	Contractor's profit & overhead			20%	229.62
	Total Composite rate				1,676.21
					1,676
	b) 3" (75 mm) dia. and 1/8" (3 mm) wall thickness				
	1. Labour				
	Total Labour rate			Same as in item 27-18(a)	298.50
					299
	2. Material				
	M.S. blind pipe 75 mm dia	1.00	R.M. @	1601.85	1,601.85
	Jointing material			2%	32.04
					1,633.89
	Contractor's profit & overhead			20%	326.78
	Total Composite rate				2,259.16
					2,259
	c) 4" (100 mm) dia. and 1/8" (3 mm) wall thickness				
	1. Labour				
	Pipe fitter	1.57	Hrs @	125.00	196.25
	Labourer	1.30	Hrs @	87.50	113.75
					310.00
	Contractor's profit & overhead			20%	62.00
	Total Labour rate				372.00
					372
	2. Material				
	M.S. blind pipe 100 mm dia	1.00	R.M. @	2125.96	2,125.96
	Jointing material			2%	42.52
					2,168.48
	Contractor's profit & overhead			20%	433.70
	Total Composite rate				2,974.18
					2,974
	d) 5" (125 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Total Labour rate			Same as in item 27-18(c)	372.00
					372
	2. Material				
	M.S. blind pipe 125 mm dia	1.00	R.M. @	4237.15	4,237.15
	Jointing material			2%	84.74
					4,321.89
	Contractor's profit & overhead			20%	864.38

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		5,558.27		5,558
e)	6" (150 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Pipe fitter	2.57	Hrs @ 125.00		321.25
	Labourer	2.00	Hrs @ 87.50		175.00
					<u>496.25</u>
	Contractor's profit & overhead		20%		99.25
	Total Labour rate				<u>595.50</u> 596
	2. Material				
	M.S. blind pipe 150 mm dia	1.00	R.M. @ 5004.86		5,004.86
	Jointing material		2%		100.10
					<u>5,104.96</u>
	Contractor's profit & overhead		20%		1,020.99
	Total Composite rate				<u>6,721.45</u> 6,721
f)	7" (175 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Total Labour rate Same as in item 27-18(e)				595.50 596
	2. Material				
	M.S. blind pipe 175 mm dia	1.00	R.M. @ 5839.00		5,839.00
	Jointing material		2%		116.78
					<u>5,955.78</u>
	Contractor's profit & overhead		20%		1,191.16
	Total Composite rate				<u>7,742.44</u> 7,742
g)	8" (200 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Pipe fitter	2.40	Hrs @ 125.00		300.00
	Labourer	2.25	Hrs @ 87.50		196.88
					<u>496.88</u>
	Contractor's profit & overhead		20%		99.38
	Total Labour rate				<u>596.25</u> 596
	2. Material				
	M.S. blind pipe 200 mm dia	1.00	R.M. @ 7241.55		7,241.55
	Jointing material		2%		144.83
					<u>7,386.38</u>
	Contractor's profit & overhead		20%		1,477.28
	Total Composite rate				<u>9,459.91</u> 9,460
h)	9" (225 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Total Labour rate Same as in item 27-18(g)				596.25 628
	2. Material				
	M.S. blind pipe 225 mm dia	1.00	R.M. @ 8311.91		8,311.91
	Jointing material		2%		166.24
					<u>8,478.15</u>
	Contractor's profit & overhead		20%		1,695.63
	Total Composite rate				<u>10,770.03</u> 10,770
i)	10" (250 mm) dia. and 1/4" (6 mm) wall thickness				
	1. Labour				
	Total Labour rate Same as in item 27-18(g)				596.25 596

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
2. Material					
	M.S. blind pipe 250 mm dia	1.00	R.M. @	10902.92	10,902.92
	Jointing material			2%	218.06
					11,120.98
	Contractor's profit & overhead			20%	2,224.20
	Total Composite rate				13,941.42
					13,941
j) 12" (300 mm) dia. and 1/4" (6 mm) wall thickness					
1. Labour					
	Pipe fitter	1.50	Hrs @	125.00	187.50
	Labourer	3.00	Hrs @	87.50	262.50
					450.00
	Contractor's profit & overhead			20%	90.00
	Total Labour rate				540.00
					540
2. Material					
	M.S. blind pipe 300 mm dia	1.00	R.M. @	12822.19	12,822.19
	Jointing material			2%	256.44
					13,078.63
	Contractor's profit & overhead			20%	2,615.73
	Total Composite rate				16,234.36
					16,234
k) 15" (375 mm) dia. and 1/4" (6 mm) wall thickness					
1. Labour					
	Total Labour rate			Same as in item 27-18(j)	540.00
					540
2. Material					
	M.S. blind pipe 375 mm dia	1.00	R.M. @	16033.27	16,033.27
	Jointing material			2%	320.67
					16,353.94
	Contractor's profit & overhead			20%	3,270.79
	Total Composite rate				20,164.72
					20,165
l) 18" (450 mm) dia. and 1/4" (6 mm) wall thickness					
1. Labour					
	Total Labour rate			Same as in item 27-18(j)	540.00
					540
2. Material					
	M.S. blind pipe 450 mm dia	1.00	R.M. @	19930.86	19,930.86
	Jointing material			2%	398.62
					20,329.48
	Contractor's profit & overhead			20%	4,065.90
	Total Composite rate				24,935.37
					24,935
m) 20" (500 mm) dia. and 1/4" (6 mm) wall thickness					
1. Labour					
	Pipe fitter	3.65	Hrs @	125.00	456.25
	Labourer	3.50	Hrs @	87.50	306.25
					762.50
	Contractor's profit & overhead			20%	152.50
	Total Labour rate				915.00
					915
2. Material					
	M.S. blind pipe 500 mm dia	1.00	R.M. @	22145.40	22,145.40
	Jointing material			2%	442.91
					22,588.31
	Contractor's profit & overhead			20%	4,517.66
	Total Composite rate				28,020.97
					28,021
n) 22" (550 mm) dia. and 1/4" (6 mm) wall thickness					
1. Labour					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate Same as in item 27-18(m)		915.00		915
	2. Material				
	M.S. blind pipe 550 mm dia	1.00	R.M. @ 24359.94	24,359.94	
	Jointing material		2%	487.20	
				<u>24,847.14</u>	
	Contractor's profit & overhead		20%	4,969.43	
	Total Composite rate			<u>30,731.57</u>	30,732
R.M.	Item No. 27-19				
	Providing and Installing uPVC blind pipe of approved make registered with PSQCA in tubewell bore hole and/or laying, cutting, jointing, testing and disinfecting uPVC pipe lines in trenches.				
	a) Class B				
	i) 3" (75 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50	
	Labourer	1.00	Hrs @ 87.50	87.50	
				<u>150.00</u>	
	Contractor's profit & overhead		20%	30.00	
	Total Labour rate			<u>180.00</u>	180
	2. Material				
	U-PVC blind pipe 80 mm dia	1.00	R.M. @ 314.40	314.40	
	Jointing material		2%	6.29	
				<u>320.69</u>	
	Contractor's profit & overhead		20%	64.14	
	Total Composite rate			<u>564.83</u>	565
	ii) 4" (100 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-19(a)1			180.00	180
	2. Material				
	U-PVC blind pipe 100 mm dia	1.00	R.M. @ 477.60	477.60	
	Jointing material		2%	9.55	
				<u>487.15</u>	
	Contractor's profit & overhead		20%	97.43	
	Total Composite rate			<u>764.58</u>	765
	iii) 5" (125 mm) dia				
	1. Labour				
	Pipe layer	0.75	Hrs @ 125.00	93.75	
	Labourer	1.50	Hrs @ 87.50	131.25	
				<u>225.00</u>	
	Contractor's profit & overhead		20%	45.00	
	Total Labour rate			<u>270.00</u>	270
	2. Material				
	U-PVC blind pipe 125 mm dia	1.00	R.M. @ 668.80	668.80	
	Jointing material		2%	13.38	
				<u>682.18</u>	
	Contractor's profit & overhead		20%	136.44	
	Total Composite rate			<u>1,088.61</u>	1,089
	iv) 6" (150 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-19(a)3			270.00	270
	2. Material				
	U-PVC blind pipe 150 mm dia	1.00	R.M. @ 936.80	936.80	
	Jointing material		2%	18.74	
				<u>955.54</u>	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			955.54		
	Contractor's profit & overhead	20%	191.11		
	Total Composite rate		1,416.64		1,417
v)	8" (200 mm) dia				
	1. Labour				
	Pipe layer	1.00 Hrs @	125.00		125.00
	Labourer	2.00 Hrs @	87.50		175.00
					300.00
	Contractor's profit & overhead	20%	60.00		
	Total Labour rate		360.00		360
	2. Material				
	U-PVC blind pipe 200 mm dia	1.00 R.M. @	1430.40		1,430.40
	Jointing material		2%		28.61
					1,459.01
	Contractor's profit & overhead	20%	291.80		
	Total Composite rate		2,110.81		2,111
vi)	10" (250 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-19(a)5			360.00
					360
	2. Material				
	U-PVC blind pipe 250 mm dia	1.00 R.M. @	2309.60		2,309.60
	Jointing material		2%		46.19
					2,355.79
	Contractor's profit & overhead	20%	471.16		
	Total Composite rate		3,186.95		3,187
vii)	12" (300 mm) dia				
	1. Labour				
	Pipe layer	1.25 Hrs @	125.00		156.25
	Labourer	2.50 Hrs @	87.50		218.75
					375.00
	Contractor's profit & overhead	20%	75.00		
	Total Labour rate		450.00		450
	2. Material				
	U-PVC blind pipe 300 mm dia	1.00 R.M. @	3207.20		3,207.20
	Jointing material		2%		64.14
					3,271.34
	Contractor's profit & overhead	20%	654.27		
	Total Composite rate		4,375.61		4,376
viii)	14" (350 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-19(a)7			450.00
					450
	2. Material				
	U-PVC blind pipe 350 mm dia	1.00 R.M. @	4068.00		4,068.00
	Jointing material		2%		81.36
					4,149.36
	Contractor's profit & overhead	20%	829.87		
	Total Composite rate		5,429.23		5,429
b)	Class D				
i)	1.25" (30 mm) dia				
	1. Labour				
	Pipe layer	0.25 Hrs @	125.00		31.25
	Labourer	0.50 Hrs @	87.50		43.75

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		20%	75.00	
	Total Labour rate			15.00	
				90.00	90
	2. Material				
	U-PVC blind pipe 30 mm dia	1.00	R.M. @	116.80	116.80
	Jointing material			2%	2.34
				119.14	
	Contractor's profit & overhead		20%	23.83	
	Total Composite rate			232.96	233
ii)	1.5" (40 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-19(b)1	90.00	90
	2. Material				
	U-PVC blind pipe 40 mm dia	1.00	R.M. @	144.35	144.35
	Jointing material			2%	2.89
				147.24	
	Contractor's profit & overhead		20%	29.45	
	Total Composite rate			266.69	267
iii)	2" (50 mm) dia				
	1. Labour				
	Pipe layer	0.35	Hrs @	125.00	43.75
	Labourer	0.75	Hrs @	87.50	65.63
				109.38	
	Contractor's profit & overhead		20%	21.88	
	Total Labour rate			131.25	131
	2. Material				
	U-PVC blind pipe 50 mm dia	1.00	R.M. @	220.47	220.47
	Jointing material			2%	4.41
				224.88	
	Contractor's profit & overhead		20%	44.98	
	Total Composite rate			401.11	401
iv)	3" (75 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-19(b)3	131.25	131
	2. Material				
	U-PVC blind pipe 75 mm dia	1.00	R.M. @	328.08	328.08
	Jointing material			2%	6.56
				334.64	
	Contractor's profit & overhead		20%	66.93	
	Total Composite rate			532.82	533
v)	4" (100 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
				150.00	
	Contractor's profit & overhead		20%	30.00	
	Total Labour rate			180.00	180
	2. Material				
	U-PVC blind pipe 100 mm dia	1.00	R.M. @	488.18	488.18
	Jointing material			2%	9.76

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		497.95		
		20%	99.59		
	Total Composite rate		777.54		778
vi)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-19(b)5	180.00		180
	2. Material				
	U-PVC blind pipe 150 mm dia	1.00 R.M. @	813.64		813.64
	Jointing material		2%		16.27
					829.91
	Contractor's profit & overhead		20%		165.98
	Total Composite rate		1,175.90		1,176
Job	Item No. 27-20				
	Testing and development of tubewell of size 6" (150 mm) inner dia. and above continuously				
	a) Upto 1.5 cusecs (0.0425 cumec) discharge				
	Running charges of compressure				47,628.00
	Establishment charges				10,670.63
	Working charges of G.M. engine				26,393.85
	Running charge of vehicles				6,052.50
	Depreciation cost of D&T set				5,512.50
	Depreciation cost of other plant				13,780.00
					110,037.48
	Contractor's profit & overhead		20%		22,007.50
	Total Composite rate		132,044.97		132,045
	b) Above 1.5 cusecs (0.0425 cumec) capacity				
	Total Composite rate	1.25 times of item 27-20(a)	165,056.19		165,056

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Item No. 27-21				
Cu.M.	Shrouding with graded pea gravel 3/8" to 1/8" (10 mm to 3mm) around tubewell bore hole.				
	1. Labour				
	Labourer	12.25	Hrs @ 87.50	1,071.88	
	Contractor's profit & overhead		20%	214.38	
	Total Labour rate			1,286.25	1,286
	2. Material				
	Pea gravel	1.00	Cu.m. @ 6355.80	6,355.80	
	Contractor's profit & overhead		20%	1,271.16	
	Total Composite rate			8,913.21	8,913
	Item No. 27-22				
R.M.	Providing, laying, cutting, jointing, testing and disinfecting C.I. pipe line in trenches with spigot and socket, chalked lead or comet joints or flanged joints or tyton joints including cost of materials such as lead, comet and yarn. (Cost of specials and their installation not included).				
	i) 3" (75 mm) dia				
	1. Labour				
	Pipe fitter	0.20	Hrs @ 125.00	25.00	
	Labourer	0.40	Hrs @ 87.50	35.00	
				60.00	
	Contractor's profit & overhead		20%	12.00	
	Total Labour rate			72.00	72
	2. Material				
	C.I. Pipe 75 mm dia.	1.00	R.M. @ 2025.00	2,025.00	
	Jointing material		2%	40.50	
				2,065.50	
	Contractor's profit & overhead		20%	413.10	
	Total Composite rate			2,550.60	2,551
	ii) 4" (100 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-22(i)	298.50	299
	2. Material				
	C.I. pipe 100 mm dia.	1.00	R.M. @ 2700.00	2,700.00	
	Jointing material		2%	54.00	
				2,754.00	
	Contractor's profit & overhead		20%	550.80	
	Total Composite rate			3,603.30	3,603
	iii) 6" (150 mm) dia				
	1. Labour				
	Pipe fitter	0.30	Hrs @ 125.00	37.50	
	Labourer	0.60	Hrs @ 87.50	52.50	
				90.00	
	Contractor's profit & overhead		20%	18.00	
	Total Labour rate			108.00	108
	2. Material				
	C.I. pipe 150 mm dia	1.00	R.M. @ 4500.00	4,500.00	
	Jointing material		2%	90.00	
				4,590.00	
	Contractor's profit & overhead		20%	918.00	
	Total Composite rate			5,616.00	5,616

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
iv) 9" (225 mm) dia					
1. Labour					
Pipe fitter	0.50 Hrs @	125.00		62.50	
Labourer	1.00 Hrs @	87.50		87.50	
				150.00	
Contractor's profit & overhead		20%		30.00	
Total Labour rate				180.00	180
2. Material					
C.I. pipe 230 mm dia	1.00 R.M. @	6750.00		6,750.00	
Jointing material		2%		135.00	
				6,885.00	
Contractor's profit & overhead		20%		1,377.00	
Total Composite rate				8,442.00	8,442
Item No. 27-23					
Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe line IIL or equivalent of approved make registered with PSQCA including the cost of specials and cost of painting 2 coats with bitumen to pipes and specials after cleaning and wrapping tightly hessian cloth soaked in Mexphalt composition around pipes.					
a) Light duty					
i) 1/2" (15 mm) inner dia.					
1. Labour					
Pipe fitter	0.40 Hrs @	125.00		50.00	
Labourer	0.40 Hrs @	87.50		35.00	
				85.00	
Contractor's profit & overhead		20%		17.00	
Total Labour rate				102.00	102
2. Material					
G.I. pipe 15 mm dia.	1.00 R.M. @	246.25		246.25	
Specials		40%		98.50	
Extra for coating & wrapping etc.		30%		73.88	
				418.63	
Contractor's profit & overhead		20%		83.73	
Total Composite rate				604.35	604
ii) 3/4" (20 mm) inner dia.					
1. Labour					
Total Labour rate	Same as in item 27-23(a)1			102.00	102
2. Material					
G.I. pipe 20 mm dia.	1.00 R.M. @	327.50		327.50	
Specials		40%		131.00	
Extra for coating & wrapping etc.		30%		98.25	
				556.75	
Contractor's profit & overhead		20%		111.35	
Total Composite rate				770.10	770

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
iii) 1" (25 mm) inner dia.					
1. Labour					
Pipe fitter	0.42 Hrs @	125.00		52.50	
Labourer	0.50 Hrs @	87.50		43.75	
				<u>96.25</u>	
Contractor's profit & overhead		20%		19.25	
Total Labour rate				<u>115.50</u>	116
2. Material					
G.I. pipe 25 mm dia.	1.00 R.M. @	471.25		471.25	
Specials		40%		188.50	
Extra for coating & wrapping etc.		30%		141.38	
				<u>801.13</u>	
Contractor's profit & overhead		20%		160.23	
Total Composite rate				<u>1,076.85</u>	1,077
iv) 1.25" (30 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-23(a)3			115.50	116
2. Material					
G.I. pipe 30 mm dia.	1.00 R.M. @	655.00		655.00	
Specials		40%		262.00	
Extra for coating & wrapping etc.		30%		196.50	
				<u>1,113.50</u>	
Contractor's profit & overhead		20%		222.70	
Total Composite rate				<u>1,451.70</u>	1,452
v) 1.5" (40 mm) dia					
1. Labour					
Pipe fitter	0.35 Hrs @	125.00		43.75	
Labourer	0.75 Hrs @	87.50		65.63	
				<u>109.38</u>	
Contractor's profit & overhead		20%		21.88	
Total Labour rate				<u>131.25</u>	131
2. Material					
G.I. pipe 40 mm dia.	1.00 R.M. @	757.50		757.50	
Specials		40%		303.00	
Extra for coating & wrapping etc.		30%		227.25	
				<u>1,287.75</u>	
Contractor's profit & overhead		20%		257.55	
Total Composite rate				<u>1,676.55</u>	1,677
vi) 2" (50 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-23(a)5			131.25	131
2. Material					
G.I. pipe 50 mm dia.	1.00 R.M. @	1046.25		1,046.25	
Specials		40%		418.50	
Extra for coating & wrapping etc.		30%		313.88	
				<u>1,778.63</u>	
Contractor's profit &		20%		355.73	
Total Composite rate				<u>2,265.60</u>	2,266
vii) 2.5" (65 mm) inner dia.					
1. Labour					
Pipe fitter	0.45 Hrs @	125.00		56.25	
Labourer	0.90 Hrs @	87.50		78.75	
				<u>135.00</u>	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	27.00		
	Total Labour rate		162.00		162
	2. Material				
	G.I. pipe 65 mm dia.	1.00 R.M. @	1640.00	1,640.00	
	Specials		40%	656.00	
	Extra for coating & wrapping etc.		30%	492.00	
				2,788.00	
	Contractor's profit & overhead	20%	557.60		
	Total Composite rate		3,507.60		3,508
viii)	3" (75 mm) dia inner dia.				
	1. Labour				
	Total Labour rate Same as in item 27-23(a)7			162.00	162
	2. Material				
	G.I. pipe 75 mm dia.	1.00 R.M. @	2500.00	2,500.00	
	Specials		40%	1,000.00	
	Extra for coating & wrapping etc.		30%	750.00	
				4,250.00	
	Contractor's profit & overhead	20%	850.00		
	Total Composite rate		5,262.00		5,262
ix)	4" (100 mm) dia				
	1. Labour				
	Pipe fitter	0.50 Hrs @	125.00	62.50	
	Labourer	1.00 Hrs @	87.50	87.50	
				150.00	
	Contractor's profit & overhead	20%	30.00		
	Total Labour rate		180.00		180
	2. Material				
	G.I. pipe 100 mm dia.	1.00 R.M. @	3076.25	3,076.25	
	Specials		40%	1,230.50	
	Extra for coating & wrapping etc.		30%	922.88	
				5,229.63	
	Contractor's profit & overhead	20%	1,045.93		
	Total Composite rate		6,455.55		6,456
b)	Medium duty				
i)	1/2" (15 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-23(a)1			102.00	102
	2. Material				
	G.I. pipe 15 mm dia.	1.00 R.M. @	255.74	255.74	
	Specials		40%	102.30	
	Extra for coating & wrapping etc.		30%	76.72	
				434.76	
	Contractor's profit & overhead	20%	86.95		
	Total Composite rate		623.72		624
ii)	3/4" (20 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-23(a)1			102.00	102
	2. Material				
	G.I. pipe 20 mm dia.	1.00 R.M. @	329.53	329.53	
	Specials		40%	131.81	
	Extra for coating & wrapping etc.		30%	98.86	
				560.20	
	Contractor's profit & overhead	20%	112.04		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		774.24		774
iii)	1" (25 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-23(a)3		115.50		116
	2. Material				
	G.I. pipe 25 mm dia.	1.00	R.M. @ 492.48	492.48	
	Specials		40%	196.99	
	Extra for coating & wrapping etc.		30%	147.74	
				<u>837.22</u>	
	Contractor's profit & overhead		20%	167.44	
	Total Composite rate			<u>1,120.16</u>	1,120
iv)	1.25" (30 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-23(a)3		115.50		116
	2. Material				
	G.I. pipe 30 mm dia.	1.00	R.M. @ 638.84	638.84	
	Specials		40%	255.54	
	Extra for coating & wrapping etc.		30%	191.65	
				<u>1,086.03</u>	
	Contractor's profit & overhead		20%	217.21	
	Total Composite rate			<u>1,418.74</u>	1,419
v)	1.5" (40 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-23(a)5		131.25		131
	2. Material				
	G.I. pipe 40 mm dia.	1.00	R.M. @ 739.58	739.58	
	Specials		40%	295.83	
	Extra for coating & wrapping etc.		30%	221.88	
				<u>1,257.29</u>	
	Contractor's profit & overhead		20%	251.46	
	Total Composite rate			<u>1,640.00</u>	1,640
vi)	2" (50 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-23(a)5		131.25		131
	2. Material				
	G.I. pipe 50 mm dia.	1.00	R.M. @ 1046.25	1,046.25	
	Specials		40%	418.50	
	Extra for coating & wrapping etc.		30%	313.88	
				<u>1,778.63</u>	
	Contractor's profit & overhead		20%	355.73	
	Total Composite rate			<u>2,265.60</u>	2,266
vii)	2.5" (65 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-23(a)7		162.00		162
	2. Material				
	G.I. pipe 65 mm dia.	1.00	R.M. @ 1321.92	1,321.92	
	Specials		40%	528.77	
	Extra for coating & wrapping etc.		30%	396.58	
				<u>2,247.26</u>	
	Contractor's profit &		20%	449.45	
	Total Composite rate			<u>2,858.72</u>	2,859

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
viii)	3" (75 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)7		162.00	162
	2. Material				
	G.I. pipe 75 mm dia.	1.00	R.M. @	1703.81	1,703.81
	Specials			40%	681.52
	Extra for coating & wrapping etc.			30%	511.14
					<u>2,896.47</u>
	Contractor's profit & overhead			20%	579.29
	Total Composite rate			<u>3,637.77</u>	3,638
ix)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)9		180.00	180
	2. Material				
	G.I. pipe 100 mm dia.	1.00	R.M. @	2446.85	2,446.85
	Specials			40%	978.74
	Extra for coating & wrapping etc.			30%	734.05
					<u>4,159.64</u>
	Contractor's profit & overhead			20%	831.93
	Total Composite rate			<u>5,171.57</u>	5,172
x)	5" (125 mm) dia				
	1. Labour				
	Pipe fitter	0.60	Hrs @	125.00	75.00
	Labourer	1.25	Hrs @	87.50	109.38
					<u>184.38</u>
	Contractor's profit & overhead			20%	36.88
	Total Labour rate			<u>221.25</u>	221
	2. Material				
	G.I. pipe 125 mm dia.	1.00	R.M. @	3302.21	3,302.21
	Specials			40%	1,320.88
	Extra for coating & wrapping etc.			30%	990.66
					<u>5,613.75</u>
	Contractor's profit & overhead			20%	1,122.75
	Total Composite rate			<u>6,957.75</u>	6,958
xi)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(b)10		221.25	221
	2. Material				
	G.I. pipe 150 mm dia.	1.00	R.M. @	3899.32	3,899.32
	Specials			40%	1,559.73
	Extra for coating & wrapping etc.			30%	1,169.80
					<u>6,628.84</u>
	Contractor's profit & overhead			20%	1,325.77
	Total Composite rate			<u>8,175.86</u>	8,176
R.M.	Item No. 27-24				
	Replacing burst/damaged G.I. pipe line with all excavation, cutting, providing new G.I. medium duty pipe, union, tees, bends, sockets, including threading etc. and painting with 2 coats of bitumen to pipes and specials after cleaning and wrapping tightly hessian cloth soaked in Maxphalt composition around pipes including cost of testing and disinfecting (cost of pipes and all accessories included)				
i)	1/2" (15 mm) dia				
	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Pipe fitter	1.00	Hrs @	125.00	125.00
	Labourer	2.00	Hrs @	87.50	175.00
					300.00
	Contractor's profit & overhead		20%		60.00
	Total Labour rate			360.00	360
	2. Material				
	Same as in item 27-23(b)1				434.76
	Contractor's profit & overhead		20%		86.95
	Total Composite rate			881.72	882
ii)	3/4" (20 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-24(i)	360.00	360
	2. Material				
	Same as in item 27-23(b)2				560.20
	Contractor's profit & overhead		20%		112.04
	Total Composite rate			1,032.24	1,032
iii)	1" (25 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-24(i)	360.00	360
	2. Material				
	Same as in item 27-23(b)3				837.22
	Contractor's profit & overhead		20%		167.44
	Total Composite rate			1,364.66	1,365
iv)	1.25" (30 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-24(i)	360.00	360
	2. Material				
	Same as in item 27-23(b)4				1,086.03
	Contractor's profit & overhead		20%		217.21
	Total Composite rate			1,663.24	1,663
v)	1.5" (40 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-24(i)	360.00	360
	2. Material				
	Same as in item 27-23(b)5				1,257.29
	Contractor's profit &		20%		251.46
	Total Composite rate			1,868.75	1,869
vi)	2" (50 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-24(i)	360.00	360
	2. Material				
	Same as in item 27-23(b)6				1,778.63
	Contractor's profit & overhead		20%		355.73
	Total Composite rate			2,494.35	2,494
vii)	2.5" (65 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-24(i)	360.00	360
	2. Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)		(Rs)	
	Same as in item 27-23(b)7			2,247.26	
	Contractor's profit & overhead	20%		449.45	
	Total Composite rate			3,056.72	3,057
viii)	3" (75 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-24(i)		360.00	360
	2. Material				
	Same as in item 27-23(b)8			2,896.47	
	Contractor's profit & overhead	20%		579.29	
	Total Composite rate			3,835.77	3,836
ix)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-24(i)		360.00	360
	2. Material				
	Same as in item 27-23(b)9			4,159.64	
	Contractor's profit & overhead	20%		831.93	
	Total Composite rate			5,351.57	5,352
x)	5" (125 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-24(i)		360.00	360
	2. Material				
	Same as in item 27-23(b)10			5,613.75	
	Contractor's profit & overhead	20%		1,122.75	
	Total Composite rate			7,096.50	7,097
xi)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-24(i)		360.00	360
	2. Material				
	Same as in item 27-23(b)11			6,628.84	
	Contractor's profit & overhead	20%		1,325.77	
	Total Composite rate			8,314.61	8,315
	Item No. 27-25				
	Providing, laying, cutting, jointing, testing and disinfecting cement concrete pipe line in trenches including comet joint and rubber ring.				
a)	Class B working pressure				
i)	3" (75 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead			20%	30.00
	Total Labour rate				180.00
	2. Material				
	F.C. pipe 75 mm dia.	1.00	R.M. @	502.00	502.00
	Jointing material			2%	10.04
					512.04
	Contractor's profit & overhead			20%	102.41
	Total Composite rate				794.45
ii)	4" (100 mm) dia				
	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate Same as in item 27-25(a)1		180.00		180
	2. Material				
	F.C. pipe 100 mm dia	1.00	R.M. @ 689.00	689.00	
	Jointing material		2%	13.78	
				<u>702.78</u>	
	Contractor's profit & overhead		20%	140.56	
	Total Composite rate			<u>1,023.34</u>	1,023
iii)	6" (150 mm) dia				
	1. Labour				
	Pipe layer	0.75	Hrs @ 125.00	93.75	
	Labourer	1.50	Hrs @ 87.50	131.25	
				<u>225.00</u>	
	Contractor's profit & overhead		20%	45.00	
	Total Labour rate			<u>270.00</u>	270
	2. Material				
	F.C. pipe 150 mm dia	1.00	R.M. @ 1082.00	1,082.00	
	Jointing material		2%	21.64	
				<u>1,103.64</u>	
	Contractor's profit & overhead		20%	220.73	
	Total Composite rate			<u>1,594.37</u>	1,594
iv)	8" (200 mm) dia				
	1. Labour				
	2. Material				
	Non Asbestos Cement Fibre pipe 200 mm dia	1.00	R.M. @ 1784.32	1,784.32	
	Jointing material		2%	35.69	
				<u>1,820.01</u>	
	Contractor's profit & overhead		20%	364.00	
	Total Composite rate			<u>2,454.01</u>	2,454
v)	10" (250 mm) dia				
	1. Labour				
	Pipe layer	1.25	Hrs @ 125.00	156.25	
	Labourer	2.50	Hrs @ 87.50	218.75	
				<u>375.00</u>	
	Contractor's profit & overhead		20%	75.00	
	Total Labour rate			<u>450.00</u>	450
	2. Material				
	Non Asbestos Cement Fibre pipe 250 mm dia	1.00	R.M. @ 2558.00	2,558.00	
	Jointing material		2%	51.16	
				<u>2,609.16</u>	
	Contractor's profit & overhead		20%	521.83	
	Total Composite rate			<u>3,580.99</u>	3,581
vi)	12" (300 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-25(a)5			450.00	450
	2. Material				
	Non Asbestos Cement Fibre pipe 300 mm dia	1.00	R.M. @ 3247.00	3,247.00	
	Jointing material		2%	64.94	
				<u>3,311.94</u>	
	Contractor's profit & overhead		20%	662.39	
	Total Composite rate			<u>4,424.33</u>	4,424
vii)	14" (350 mm) inner dia.				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Pipe layer	1.75 Hrs @	125.00			218.75
Labourer	3.50 Hrs @	87.50			306.25
					<u>525.00</u>
Contractor's profit &		20%			105.00
Total Labour rate					<u>630.00</u> 630
2. Material					
Non Asbestos Cement Fibre pipe 350 mm dia	1.00 R.M. @	4165.60			4,165.60
Jointing material		2%			83.31
					<u>4,248.91</u>
Contractor's profit & overhead		20%			849.78
Total Composite rate					<u>5,728.69</u> 5,729
viii) 16" (400 mm) inner dia					
1. Labour					
Total Labour rate	Same as in item 27-25(a)7				630.00 630
2. Material					
Non Asbestos Cement Fibre pipe 400 mm dia	1.00 R.M. @	5297.00			5,297.00
Jointing material		2%			105.94
					<u>5,402.94</u>
Contractor's profit & overhead		20%			1,080.59
Total Composite rate					<u>7,113.53</u> 7,114
ix) 18" (450 mm) dia					
1. Labour					
Pipe layer	2.25 Hrs @	125.00			281.25
Labourer	4.50 Hrs @	87.50			393.75
					<u>675.00</u>
Contractor's profit & overhead		20%			135.00
Total Labour rate					<u>810.00</u> 810
2. Material					
Non Asbestos Cement Fibre pipe 450 mm dia	1.00 R.M. @	6593.00			6,593.00
Jointing material		2%			131.86
					<u>6,724.86</u>
Contractor's profit & overhead		20%			1,344.97
Total Composite rate					<u>8,879.83</u> 8,880
x) 20" (500 mm) inner dia.					
1. Labour					
Total Labour rate	Same as in item 27-25(a)9				810.00 810
2. Material					
Non Asbestos Cement Fibre pipe 500 mm dia	1.00 R.M. @	8134.00			8,134.00
Jointing material		2%			162.68
					<u>8,296.68</u>
Contractor's profit & overhead		20%			1,659.34
Total Composite rate					<u>10,766.02</u> 10,766
xi) 24" (550 mm) inner dia.					
1. Labour					
Pipe layer	2.50 Hrs @	125.00			312.50
Labourer	5.00 Hrs @	87.50			437.50
					<u>750.00</u>
Contractor's profit & overhead		20%			150.00
Total Labour rate					<u>900.00</u> 900
2. Material					
Non Asbestos Cement Fibre pipe 600 mm dia	1.00 R.M. @	11316.00			11,316.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Jointing material	2%	226.32		
			11,542.32		
	Contractor's profit & overhead	20%	2,308.46		
	Total Composite rate		14,750.78		14,751
b)	Class C working pressure				
i)	3" (75 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)1	180.00		180
	2. Material				
	Non Asbestos Cement Fibre pipe 75 mm dia.	1.00 R.M. @	475.00	475.00	
	Jointing material	2%	9.50		
			484.50		
	Contractor's profit & overhead	20%	96.90		
	Total Composite rate		761.40		761
ii)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)1	180.00		180
	2. Material				
	Non Asbestos Cement Fibre pipe 100 mm dia	1.00 R.M. @	699.00	699.00	
	Jointing material	2%	13.98		
			712.98		
	Contractor's profit & overhead	20%	142.60		
	Total Composite rate		1,035.58		1,036
iii)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)3	270.00		270
	2. Material				
	Non Asbestos Cement Fibre pipe 150 mm dia.	1.00 R.M. @	1214.00	1,214.00	
	Jointing material	2%	24.28		
			1,238.28		
	Contractor's profit & overhead	20%	247.66		
	Total Composite rate		1,755.94		1,756
iv)	8" (200 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)3	270.00		270
	2. Material				
	Non Asbestos Cement Fibre pipe 200 mm dia	1.00 R.M. @	1932.00	1,932.00	
	Jointing material	2%	38.64		
			1,970.64		
	Contractor's profit & overhead	20%	394.13		
	Total Composite rate		2,634.77		2,635
v)	10" (250 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)5	450.00		450
	2. Material				
	Non Asbestos Cement Fibre pipe 250 mm dia	1.00 R.M. @	2696.00	2,696.00	
	Jointing material	2%	53.92		
			2,749.92		
	Contractor's profit &	20%	549.98		
	Total Composite rate		3,749.90		3,750
vi)	12" (300 mm) dia				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)5	450.00		450
	2. Material				
	Non Asbestos Cement Fibre pipe 300 mm dia	1.00 R.M. @	3762.00	3,762.00	
	Jointing material	2%		75.24	
				<u>3,837.24</u>	
	Contractor's profit & overhead	20%		767.45	
	Total Composite rate			<u>5,054.69</u>	5,055
vii)	14" (350 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)7	630.00		630
	2. Material				
	Non Asbestos Cement Fibre pipe 350 mm dia	1.00 R.M. @	5809.00	5,809.00	
	Jointing material	2%		116.18	
				<u>5,925.18</u>	
	Contractor's profit & overhead	20%		1,185.04	
	Total Composite rate			<u>7,740.22</u>	7,740
viii)	16" (400 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)7	630.00		630
	2. Material				
	Non Asbestos Cement Fibre pipe 400 mm dia	1.00 R.M. @	7432.00	7,432.00	
	Jointing material	2%		148.64	
				<u>7,580.64</u>	
	Contractor's profit & overhead	20%		1,516.13	
	Total Composite rate			<u>9,726.77</u>	9,727
ix)	18" (450 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)9	810.00		810
	2. Material				
	Non Asbestos Cement Fibre pipe 450 mm dia	1.00 R.M. @	9118.00	9,118.00	
	Jointing material	2%		182.36	
				<u>9,300.36</u>	
	Contractor's profit & overhead	20%		1,860.07	
	Total Composite rate			<u>11,970.43</u>	11,970
x)	20" (500 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)9	810.00		810
	2. Material				
	Non Asbestos Cement Fibre pipe 500 mm dia	1.00 R.M. @	10857.00	10,857.00	
	Jointing material	2%		217.14	
				<u>11,074.14</u>	
	Contractor's profit & overhead	20%		2,214.83	
	Total Composite rate			<u>14,098.97</u>	14,099
xi)	24" (600 mm) inner dia.				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)11	900.00		900
	2. Material				
	Non Asbestos Cement Fibre pipe 600 mm dia	1.00 R.M. @	15318.00	15,318.00	
	Jointing material	2%		306.36	

Unit	Description	Component Cost		Unit	Rate
		(Rs)		(Rs)	
				15,624.36	
	Contractor's profit & overhead		20%	3,124.87	
	Total Composite rate			19,649.23	19,649
c)	Class D working pressure				
i)	3" (75 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)1		180.00	180
	2. Material				
	Non Asbestos Cement Fibre pipe 75 mm dia.	1.00	R.M. @	502.00	502.00
	Jointing material		2%	10.04	
				512.04	
	Contractor's profit & overhead		20%	102.41	
	Total Composite rate			794.45	794
ii)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)1		180.00	180
	2. Material				
	Non Asbestos Cement Fibre pipe 100 mm dia	1.00	R.M. @	840.00	840.00
	Jointing material		2%	16.80	
				856.80	
	Contractor's profit & overhead		20%	171.36	
	Total Composite rate			1,208.16	1,208
iii)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)3		270.00	270
	2. Material				
	Non Asbestos Cement Fibre pipe 150 mm dia	1.00	R.M. @	1538.00	1,538.00
	Jointing material		2%	30.76	
				1,568.76	
	Contractor's profit & overhead		20%	313.75	
	Total Composite rate			2,152.51	2,153
iv)	8" (200 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)3		270.00	270
	2. Material				
	Non Asbestos Cement Fibre pipe 200 mm dia	1.00	R.M. @	2728.96	2,728.96
	Jointing material		2%	54.58	
				2,783.54	
	Contractor's profit &		20%	556.71	
	Total Composite rate			3,610.25	3,610
v)	10" (250 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-25(a)5		450.00	450
	2. Material				
	Non Asbestos Cement Fibre pipe 250 mm dia	1.00	R.M. @	4037.68	4,037.68
	Jointing material		2%	80.75	
				4,118.43	
	Contractor's profit & overhead		20%	823.69	
	Total Composite rate			5,392.12	5,392
vi)	12" (300 mm) dia				

Unit	Description	Component Cost	Unit	Rate
		(Rs)		(Rs)
1. Labour				
Total Labour rate	Same as in item 27-25(a)5	450.00		450
2. Material				
Non Asbestos Cement Fibre pipe 300 mm dia	1.00 R.M. @	5904.00		5,904.00
Jointing material		2%		<u>118.08</u>
				6,022.08
Contractor's profit & overhead		20%		<u>1,204.42</u>
Total Composite rate				7,676.50

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
vii) 14" (350 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-25(a)7			630.00	630
2. Material					
Non Asbestos Cement Fibre pipe 350 mm dia	1.00 R.M. @	8819.92		8,819.92	
Jointing material		2%		176.40	
				<u>8,996.32</u>	
Contractor's profit &		20%		1,799.26	
Total Composite rate				<u>11,425.58</u>	11,426
viii) 16" (400 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-25(a)7			630.00	630
2. Material					
Non Asbestos Cement Fibre pipe 400 mm dia	1.00 R.M. @	11407.84		11,407.84	
Jointing material		2%		228.16	
				<u>11,636.00</u>	
Contractor's profit & overhead		20%		2,327.20	
Total Composite rate				<u>14,593.20</u>	14,593
ix) 18" (450 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-25(a)9			810.00	810
2. Material					
Non Asbestos Cement Fibre pipe 450 mm dia	1.00 R.M. @	13739.92		13,739.92	
Jointing material		2%		274.80	
				<u>14,014.72</u>	
Contractor's profit & overhead		20%		2,802.94	
Total Composite rate				<u>17,627.66</u>	17,628
x) 20" (500 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-25(a)9			810.00	810
2. Material					
Non Asbestos Cement Fibre pipe 500 mm dia	1.00 R.M. @	16764.08		16,764.08	
Jointing material		2%		335.28	
				<u>17,099.36</u>	
Contractor's profit &		20%		3,419.87	
Total Composite rate				<u>21,329.23</u>	21,329
R.M. Item No. 27-26	Providing, laying, cutting, jointing, testing and disinfecting Ductile iron pipe line in trenches including all fittings and accessories including protective coating.				
i) 4" (100 mm) dia					
1. Labour					
Pipe layer	1.75 Hrs @	125.00		218.75	
Labourer	3.50 Hrs @	87.50		306.25	
				<u>525.00</u>	
Contractor's profit & overhead		20%		105.00	
Total Labour rate				<u>630.00</u>	630
2. Material					
D.I. pipe 100 mm dia.	1.00 R.M. @	1000.00		1,000.00	
Jointing material and Coating		5%		50.00	
				<u>1,050.00</u>	
Contractor's profit & overhead		20%		210.00	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		1,890.00		1,890
R.M.	ii) 6" (150 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-26(a)1		630.00		630
	2. Material				
	D.I. pipe 150 mm dia.	1.00	R.M. @ 1750.00	1,750.00	
	Jointing material and Coating		5%	87.50	
				<u>1,837.50</u>	
	Contractor's profit &		20%	367.50	
	Total Composite rate			<u>2,835.00</u>	2,835
R.M.	iii) 8" (200 mm) dia				
	1. Labour				
	Pipe layer	2.25	Hrs @ 125.00	281.25	
	Labourer	4.50	Hrs @ 87.50	393.75	
				<u>675.00</u>	
	Contractor's profit &		20%	135.00	
	Total Labour rate			<u>810.00</u>	810
	2. Material				
	D.I. pipe 200 mm dia.	1.00	R.M. @ 2000.00	2,000.00	
	Jointing material and Coating		5%	100.00	
				<u>2,100.00</u>	
	Contractor's profit & overhead		20%	420.00	
	Total Composite rate			<u>3,330.00</u>	3,330
R.M.	iv) 10" (250 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-26(a)3			810.00	810
	2. Material				
	D.I. pipe 250 mm dia.	1.00	R.M. @ 2500.00	2,500.00	
	Jointing material and Coating		5%	125.00	
				<u>2,625.00</u>	
	Contractor's profit & overhead		20%	525.00	
	Total Composite rate			<u>3,960.00</u>	3,960
R.M.	v) 12" (300 mm) dia				
	1. Labour				
	Pipe layer	3.25	Hrs @ 125.00	406.25	
	Labourer	6.50	Hrs @ 87.50	568.75	
				<u>975.00</u>	
	Contractor's profit &		20%	195.00	
	Total Labour rate			<u>1,170.00</u>	1,170
	2. Material				
	D.I. pipe 300 mm dia.	1.00	R.M. @ 3500.00	3,500.00	
	Jointing material and Coating		5%	175.00	
				<u>3,675.00</u>	
	Contractor's profit & overhead		20%	735.00	
	Total Composite rate			<u>5,580.00</u>	5,580
R.M.	vi) 16" (400 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-26(a)5			1,170.00	1,170
	2. Material				
	D.I. pipe 400 mm dia.	1.00	R.M. @ 4500.00	4,500.00	
	Jointing material and Coating		5%	225.00	
				<u>4,725.00</u>	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		20%	945.00	
	Total Composite rate			6,840.00	6,840
R.M.	vii) 18" (450 mm) dia				
	1. Labour				
	Pipe layer	5.00	Hrs @	125.00	625.00
	Labourer	10.00	Hrs @	87.50	875.00
				<u>1,500.00</u>	
	Contractor's profit & overhead		20%	300.00	
	Total Labour rate			1,800.00	1,800
	2. Material				
	D.I. pipe 450 mm dia.	1.00	R.M. @	5000.00	5,000.00
	Jointing material and Coating			5%	250.00
				<u>5,250.00</u>	
	Contractor's profit & overhead		20%	1,050.00	
	Total Composite rate			8,100.00	8,100
R.M.	viii) 20" (500 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-26(a)7	1,800.00	1,800
	2. Material				
	D.I. pipe 500 mm dia.	1.00	R.M. @	5500.00	5,500.00
	Jointing material and Coating			5%	275.00
				<u>5,775.00</u>	
	Contractor's profit & overhead		20%	1,155.00	
	Total Composite rate			8,730.00	8,730
R.M.	ix) 24" (600 mm) dia				
	1. Labour				
	Pipe layer	6.00	Hrs @	125.00	750.00
	Labourer	12.00	Hrs @	87.50	1,050.00
				<u>1,800.00</u>	
	Contractor's profit & overhead		20%	360.00	
	Total Labour rate			2,160.00	2,160
	2. Material				
	D.I. pipe 600 mm dia.	1.00	R.M. @	6500.00	6,500.00
	Jointing material and Coating			5%	325.00
				<u>6,825.00</u>	
	Contractor's profit & overhead		20%	1,365.00	
	Total Composite rate			10,350.00	10,350

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
Item No. 27-27	Providing and fixing C.I. specials of class-B such as bends, tees, cross, collars, reducers, tail pieces, flanged spigot, caps, flanged sockets, tapers, angle, branch and plugs including turning threading, facing and fitting for C.I. pipe line.					
Kg.	a) Cast iron S.S. specials with spigot and socket joint					
	i) 3" to 6" (75 mm to 150 mm) inner dia.					
	1. Labour					
	Pipe fitter	0.20	Hrs @	125.00	25.00	
	Labourer	0.40	Hrs @	87.50	35.00	
					60.00	
	Contractor's profit & overhead			20%	12.00	
	Total Labour rate				72.00	72
	2. Material					
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			10%	9.38	
					103.13	
	Contractor's profit & overhead			20%	20.63	
	Total Composite rate				195.75	196
	ii) 8" to 12" (200 mm to 300 mm) inner dia.					
	1. Labour					
	Pipe fitter	0.15	Hrs @	125.00	18.75	
	Labourer	0.30	Hrs @	87.50	26.25	
					45.00	
	Contractor's profit & overhead			20%	9.00	
	Total Labour rate				54.00	54
	2. Material					
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			10%	9.38	
					103.13	
	Contractor's profit & overhead			20%	20.63	
	Total Composite rate				177.75	178
	iii) 15" to 18" (375 mm to 450 mm) inner dia.					
	1. Labour					
	Pipe fitter	0.10	Hrs @	125.00	12.50	
	Labourer	0.20	Hrs @	87.50	17.50	
					30.00	
	Contractor's profit & overhead			20%	6.00	
	Total Labour rate				36.00	36
	2. Material					
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			10%	9.38	
					103.13	
	Contractor's profit & overhead			20%	20.63	
	Total Composite rate				159.75	160
	b) Cast iron flanged specials with flanged joints					
	i) 3" to 6" (75 mm to 150 mm) dia.					
	1. Labour					
	Total Labour rate	Same as in item 27-27(a)3			36.00	36
	2. Material					
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			10%	9.38	
					103.13	
	Contractor's profit & overhead			20%	20.63	
	Total Composite rate				159.75	160

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
ii) 8" to 12" (200 mm to 300 mm) dia.						
1. Labour						
	Pipe fitter	0.08	Hrs @	125.00	10.00	
	Labourer	0.15	Hrs @	87.50	13.13	
					<u>23.13</u>	
	Contractor's profit & overhead			20%	4.63	
	Total Labour rate				<u>27.75</u> 28	
2. Material						
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			10%	9.38	
					<u>103.13</u>	
	Contractor's profit & overhead			20%	20.63	
	Total Composite rate				<u>151.50</u> 152	
iii) 15" to 18" (375 mm to 450 mm) dia.						
1. Labour						
	Pipe fitter	0.05	Hrs @	125.00	6.25	
	Labourer	0.10	Hrs @	87.50	8.75	
					<u>15.00</u>	
	Contractor's profit & overhead			20%	3.00	
	Total Labour rate				<u>18.00</u> 18	
2. Material						
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			10%	9.38	
					<u>103.13</u>	
	Contractor's profit & overhead			20%	20.63	
	Total Composite rate				<u>141.75</u> 142	
c) Cast iron specials with tyton joints						
i) 3" to 6" (75 mm to 150 mm) dia.						
1. Labour						
	Total Labour rate	Same as in item 27-27(b)3			18.00	18
2. Material						
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			30%	28.13	
					<u>121.88</u>	
	Contractor's profit & overhead			20%	24.38	
	Total Composite rate				<u>164.25</u> 164	
ii) 8" to 12" (200 mm to 300 mm) dia.						
1. Labour						
	Total Labour rate	Same as in item 27-27(b)3			18.00	18
2. Material						
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			50%	46.88	
					<u>140.63</u>	
	Contractor's profit & overhead			20%	28.13	
	Total Composite rate				<u>186.75</u> 187	
iii) 15" to 18" (375 mm to 450 mm) dia.						
1. Labour						
	Total Labour rate	Same as in item 27-27(b)3			18.00	18
2. Material						
	C.I. specials	1.00	Kg.	93.75	93.75	
	Jointing material			80%	75.00	
					<u>168.75</u>	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		20%	33.75	
	Total Composite rate			220.50	221
Kg.	Item No. 27-28 Providing and fixing C.I. special of BSS, Class-B such as bends, tees, cross, collar, reducers, tail pieces, flanged sockets, flanged spigots, caps, tapers, angle branch and plugs for asbestos cement pipe line with comet joint and rubber ring.				
	3" to 6" (75 mm to 150 mm) dia.				
	1. Labour				
	Pipe fitter	0.25	Hrs @ 125.00	31.25	
	Labourer	0.50	Hrs @ 87.50	43.75	
				75.00	
	Contractor's profit & overhead		20%	15.00	
	Total Labour rate			90.00	90
	2. Material				
	C.I. specials	1.00	Kg. 93.75	93.75	
	Jointing material		10%	9.38	
				103.13	
	Contractor's profit & overhead		20%	20.63	
	Total Composite rate			213.75	214
	8" to 18" (200 mm to 450 mm) inner dia.				
	1. Labour				
	Pipe fitter	0.18	Hrs @ 125.00	22.50	
	Labourer	0.35	Hrs @ 87.50	30.63	
				53.13	
	Contractor's profit & overhead		20%	10.63	
	Total Labour rate			63.75	64
	2. Material				
	C.I. specials	1.00	Kg. 93.75	93.75	
	Jointing material		10%	9.38	
				103.13	
	Contractor's profit & overhead		20%	20.63	
	Total Composite rate			187.50	188
	20" to 24" (500 mm to 600 mm) inner dia.				
	1. Labour				
	Pipe fitter	0.13	Hrs @ 125.00	16.25	
	Labourer	0.25	Hrs @ 87.50	21.88	
				38.13	
	Contractor's profit & overhead		20%	7.63	
	Total Labour rate			45.75	46
	2. Material				
	C.I. specials	1.00	Kg. 93.75	93.75	
	Jointing material	0.00	10%	9.38	
				103.13	
	Contractor's profit & overhead		20%	20.63	
	Total Composite rate			169.50	170
Each	Item No. 27-29 Providing and fixing C.I. sluice valve of BSS quality and weight, Class B, for C.I. pipe line and A.C. pipe line including cost of Jointing material.				
	a) 3" (75 mm) inner dia.				
	1. Labour				
	Pipe fitter	0.50	Hrs @ 125.00	62.50	
	Labourer	1.60	Hrs @ 87.50	140.00	
				202.50	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	40.50		
	Total Labour rate		243.00		243
	2. Material				
	C.I. sluice valve 75 mm dia	1.00 No. @	4750.00	4,750.00	
	Jointing material		2%	95.00	
				5,088.00	
	Contractor's profit & overhead	20%	1,017.60		
	Total Composite rate		6,105.60		6,106
b)	4" (100 mm) inner dia.				
	1. Labour				
	Total Labour rate	Same as in item 27-29(a)		243.00	243
	2. Material				
	C.I. sluice valve 100 mm dia	1.00 No. @	7500.00	7,500.00	
	Jointing material		2%	150.00	
				7,893.00	
	Contractor's profit & overhead	20%	1,578.60		
	Total Composite rate		9,471.60		9,472
c)	6" (150 mm) inner dia.				
	1. Labour				
	Pipe fitter	0.85 Hrs @	125.00	106.25	
	Labourer	1.75 Hrs @	87.50	153.13	
				259.38	
	Contractor's profit & overhead	20%	51.88		
	Total Labour rate		311.25		311
	2. Material				
	C.I. sluice valve 150 mm dia	1.00 No. @	12000.00	12,000.00	
	Jointing material		2%	240.00	
				12,240.00	
	Contractor's profit & overhead	20%	2,448.00		
	Total Composite rate		14,999.25		14,999
d)	9" (225 mm) inner dia.				
	1. Labour				
	Total Labour rate	Same as in item 27-29(c)		311.25	311
	2. Material				
	C.I. sluice valve 230 mm dia	1.00 No. @	17750.00	17,750.00	
	Jointing material		1%	177.50	
				18,238.75	
	Contractor's profit & overhead	20%	3,647.75		
	Total Composite rate		22,197.75		22,198
e)	12" (300 mm) dia				
	1. Labour				
	Pipe fitter	1.25 Hrs @	125.00	156.25	
	Labourer	2.50 Hrs @	87.50	218.75	
				375.00	
	Contractor's profit & overhead	20%	75.00		
	Total Labour rate		450.00		450
	2. Material				
	C.I. sluice valve 300 mm dia	1.00 No. @	37500.00	37,500.00	
	Jointing material		1%	375.00	
				38,325.00	
	Contractor's profit & overhead	20%	7,665.00		
	Total Composite rate		45,990.00		45,990

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
f) 15" (375 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-29(e)			450.00	450
2. Material					
C.I. sluice valve 375 mm dia	1.00	No.	@ 42750.00	42,750.00	
Jointing material			1%	427.50	
				<u>43,177.50</u>	
Contractor's profit & overhead			20%	8,635.50	
Total Composite rate				<u>52,263.00</u>	52,263
g) 18" (450 mm) dia					
1. Labour					
Pipe fitter	1.75	Hrs	@ 125.00	218.75	
Labourer	3.50	Hrs	@ 87.50	306.25	
				<u>525.00</u>	
Contractor's profit & overhead			20%	105.00	
Total Labour rate				<u>630.00</u>	630
2. Material					
C.I. sluice valve 450 mm dia	1.00	No.	@ 97750.00	97,750.00	
Jointing material			1%	977.50	
				<u>98,727.50</u>	
Contractor's profit & overhead			20%	19,745.50	
Total Composite rate				<u>119,103.00</u>	119,103
h) 21" (525 mm) inner dia.					
1. Labour					
Total Labour rate	Same as in item 27-29(g)			630.00	630
2. Material					
C.I. sluice valve 525 mm dia	1.00	No.	@ 125000.00	125,000.00	
Jointing material			1%	1,250.00	
				<u>126,250.00</u>	
Contractor's profit & overhead			20%	25,250.00	
Total Composite rate				<u>152,130.00</u>	152,130
i) 24" (600 mm) dia					
1. Labour					
Pipe fitter	2.50	Hrs	@ 125.00	312.50	
Labourer	5.00	Hrs	@ 87.50	437.50	
				<u>750.00</u>	
Contractor's profit & overhead			20%	150.00	
Total Labour rate				<u>900.00</u>	900
2. Material					
C.I. sluice valve 600 mm dia	1.00	No.	@ 175,000	175,000.00	
Jointing material			1%	1,750.00	
				<u>177,650.00</u>	
Contractor's profit & overhead			20%	35,530.00	
Total Composite rate				<u>213,180.00</u>	213,180
j) 27" (675 mm) inner dia.					
1. Labour					
Total Labour rate	Same as in item 27-29(i)			900.00	900
2. Material					
C.I. sluice valve 675 mm dia	1.00	No.	@ 225000.00	225,000.00	
Jointing material			1%	2,250.00	
				<u>227,250.00</u>	
Contractor's profit & overhead			20%	45,450.00	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		273,600.00		273,600
	k) 30" (750 mm) inner dia.				
	1. Labour				
	Pipe fitter	3.00	Hrs @ 125.00		375.00
	Labourer	6.00	Hrs @ 87.50		525.00
					<u>900.00</u>
	Contractor's profit & overhead		20%		180.00
	Total Labour rate				<u>1,080.00</u> 1,080
	2. Material				
	C.I. sluice valve 750 mm dia	1.00	No. @ 300000.00		300,000.00
	Jointing material		1%		<u>3,000.00</u>
					303,000.00
	Contractor's profit & overhead		20%		60,600.00
	Total Composite rate				<u>364,680.00</u> 364,680
Each	Item No. 27-30				
	Providing and fixing C.I. sluice valve of BSS quality and weight for asbestos cement pipe line with comet joint and rubber ring including cost of Jointing material.				
	a) 3" (75 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-29(a)			243.00 243
	2. Material				
	C.I. sluice valve 75 mm dia	1.00	No. @ 4750.00		4,750.00
	Comet joint 80 mm	1.00	No. @ 110.00		110.00
	Rubber ring 80 mm	1.00	No. @ 71.50		<u>71.50</u>
					4,931.50
	Contractor's profit & overhead		20%		986.30
	Total Composite rate				<u>6,160.80</u> 6,161
	4" (100 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-29(b)			243.00 243
	2. Material				
	C.I. sluice valve 100 mm dia	1.00	No. @ 7500.00		7,500.00
	Comet joint 100 mm	1.00	No. @ 300.00		300.00
	Rubber ring 100 mm	1.00	No. @ 104.50		<u>104.50</u>
					7,904.50
	Contractor's profit & overhead		20%		1,580.90
	Total Composite rate				<u>9,485.40</u> 9,485
	6" (150 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-29(c)			311.25 311
	2. Material				
	C.I. sluice valve 150 mm dia	1.00	No. @ 12000.00		12,000.00
	Comet joint 150 mm	1.00	No. @ 450.00		450.00
	Rubber ring 150 mm	1.00	No. @ 126.50		<u>126.50</u>
					12,576.50
	Contractor's profit & overhead		20%		2,515.30
	Total Composite rate				<u>15,403.05</u> 15,403
Each	Item No. 27-31				
	Providing and fixing fire hydrants standard pattern 3" (75mm) dia. inlet and 2.5" (65mm) dia screw outlet. BSS quality and weight, cost of Jointing material is included.				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Pipe fitter	1.25	Hrs @	125.00	156.25
	Labourer	2.25	Hrs @	87.50	196.88
					353.13
	Contractor's profit & overhead			20%	70.63
	Total Labour rate				423.75
					424
	2. Material				
	Fire hydrant	0.13	No. @	2625.00	351.75
	Jointing material			3%	10.55
					362.30
	Contractor's profit & overhead			20%	72.46
	Total Composite rate				858.51
					859
Each	Item No. 27-32				
	Providing and fixing air valve 2.5" (65 mm) inner dia.of BSS quality and weight, cost of Jointing material is included.				
	a) Single				
	1. Labour				
	Pipe fitter	2.50	Hrs @	125.00	312.50
	Labourer	5.00	Hrs @	87.50	437.50
					750.00
	Contractor's profit & overhead			20%	150.00
	Total Labour rate				900.00
					900
	2. Material				
	Air valve 65 mm dia single BSS quality	1.80	No. @	2550.00	4,590.00
	Jointing material			3%	137.70
					4,727.70
	Contractor's profit & overhead			20%	945.54
	Total Composite rate				6,573.24
					6,573
	b) Double				
	1. Labour				
	Total Labour rate	Same as in item 27-32(a)			900.00
					900
	2. Material				
	Air valve 65 mm dia	3.40	No. @	5500.00	18,678.00
	Jointing material			4%	747.12
					19,425.12
	Contractor's profit & overhead			20%	3,885.02
	Total Composite rate				24,210.14
					24,210
	Item No. 27-33				
	Cutting C.I. pipe and welding spigot or socket flanged or tyton end including finishing ends of pipe.				
Per 25mm dia. of pipe	a) 3" to 6" (75 mm to 150 mm) dia.				
	1. Labour				
	Welder	1.15	Hrs @	125.00	143.75
	Labourer	0.10	Hrs @	87.50	8.75
					152.50
	Contractor's profit & overhead			20%	30.50
	Total Labour rate				183.00
					183
	b) 8" to 12" (200 mm to 300 mm) dia.				
	1. Labour				
	Labour	As in item 27-33(a) Extra for larger dia.			183.00
				10%	18.30
	Total Labour rate				201.30
					201

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	c) 15" to 18" (375 mm to 450 mm) dia.				
	1. Labour				
	Labour	As in item 27-33(b)			201.30
		Extra for larger dia.	10%		20.13
	Total Labour rate				221.43
					221
	Item No. 27-34				
Each	Providing and installing uPVC bends of of approved make registered with PSQCA.				
	a) Class B				
	i) 3" (75 mm) dia				
	1. Labour				
	Pipe layer	0.10	Hrs @	125.00	12.50
	Labourer	1.20	Hrs @	87.50	105.00
					117.50
	Contractor's profit & overhead			20%	23.50
	Total Labour rate				141.00
					141
	2. Material				
	U-PVC bend 75 mm dia	1.00	R.M. @	268.70	268.70
	Jointing material			5%	13.44
					282.14
	Contractor's profit & overhead			20%	56.43
	Total Composite rate				479.56
					480
	ii) 4" (100 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-34(a)1			141.00
					167
	2. Material				
	U-PVC bend 100 mm dia	1.35	R.M. @	391.55	528.59
	Jointing material			5%	26.43
					555.02
	Contractor's profit & overhead			20%	111.00
	Total Composite rate				807.03
					807
	iii) 5" (125 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	1.23	Hrs @	87.50	107.63
					232.63
	Contractor's profit & overhead			20%	46.53
	Total Labour rate				279.15
					279
	2. Material				
	U-PVC bend 125 mm dia	1.55	R.M. @	580.55	899.85
	Jointing material			5%	44.99
					944.85
	Contractor's profit & overhead			0.20	188.97
	Total Composite rate				1,412.96
					1,413
	iv) 6" (150 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-34(a)3			279.15
					279
	2. Material				
	U-PVC bend 150 mm dia	1.04	R.M. @	884.00	919.36
	Jointing material			5%	45.97
					965.33
	Contractor's profit & overhead			20%	193.07
	Total Composite rate				1,437.54
					1,438

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
v) 8" (200 mm) dia					
1. Labour					
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	1.85	Hrs @	87.50	161.88
					<u>286.88</u>
	Contractor's profit & overhead		20%		57.38
	Total Labour rate				<u>344.25</u> 344
2. Material					
	U-PVC bend 200 mm dia	0.85	R.M. @	1567.55	1,332.42
	Jointing material		5%		66.62
					<u>1,399.04</u>
	Contractor's profit & overhead		20%		279.81
	Total Composite rate				<u>2,023.10</u> 2,023
b) Class D					
i) 1.25" (30 mm) dia					
1. Labour					
	Pipe layer	0.10	Hrs @	125.00	12.50
	Labourer	0.75	Hrs @	87.50	65.63
					<u>78.13</u>
	Contractor's profit & overhead		20%		15.63
	Total Labour rate				<u>93.75</u> 94
2. Material					
	U-PVC bend 30 mm dia	0.84	R.M. @	42.43	35.64
	Jointing material		5%		1.78
					<u>37.42</u>
	Contractor's profit & overhead		20%		7.48
	Total Composite rate				<u>138.65</u> 139
ii) 1.5" (40 mm) dia					
1. Labour					
	Total Labour rate		Same as in item 27-34(b)1		104.17 104
2. Material					
	U-PVC bend 40 mm dia	0.70	R.M. @	51.67	36.17
	Jointing material		5%		1.81
					<u>37.97</u>
	Contractor's profit & overhead		20%		7.59
	Total Composite rate				<u>149.74</u> 150
iii) 2" (50 mm) dia					
1. Labour					
	Pipe layer	0.10	Hrs @	125.00	12.50
	Labourer	1.00	Hrs @	87.50	87.50
					<u>100.00</u>
	Contractor's profit & overhead		20%		20.00
	Total Labour rate				<u>120.00</u> 120
2. Material					
	U-PVC bend 50 mm dia	0.95	R.M. @	68.99	65.54
	Jointing material		5%		3.28
					<u>68.82</u>
	Contractor's profit & overhead		20%		13.76
	Total Composite rate				<u>202.58</u> 203
iv) 3" (75 mm) dia					
1. Labour					
	Total Labour rate		Same as in item 27-34(b)3		126.32 126

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	U-PVC bend 75 mm dia	1.16	R.M. @	161.39	187.21
	Jointing material			5%	9.36
					196.57
	Contractor's profit & overhead			20%	39.31
	Total Composite rate				362.20
					362
v)	4" (100 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead			20%	30.00
	Total Labour rate				180.00
					180
	2. Material				
	U-PVC bend 100 mm dia	1.38	R.M. @	296.53	409.20
	Jointing material			5%	20.46
					429.66
	Contractor's profit & overhead			20%	85.93
	Total Composite rate				695.60
					696
vi)	5" (125 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-34(b)5		225.00
					225
	2. Material				
	U-PVC bend 125 mm dia	1.27	R.M. @	654.58	831.31
	Jointing material			5%	41.57
					872.88
	Contractor's profit & overhead			20%	174.58
	Total Composite rate				1,272.45
					1,272
vii)	6" (150 mm) dia				
	1. Labour				
	Pipe layer	0.96	Hrs @	125.00	120.00
	Labourer	1.00	Hrs @	87.50	87.50
					207.50
	Contractor's profit & overhead			20%	41.50
	Total Labour rate				249.00
					249
	2. Material				
	U-PVC bend 150 mm dia	0.88	R.M. @	1330.25	1,174.61
	Jointing material			5%	58.73
					1,233.34
	Contractor's profit & overhead			20%	246.67
	Total Composite rate				1,729.01
					1,729
Each	Item No. 27-35				
	Providing and installing PVC tees of of approved make registered with PSQCA				
a)	Class B				
i)	3" (75 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	1.00	Hrs @	87.50	87.50
					212.50
	Contractor's profit & overhead			20%	42.50
	Total Labour rate				255.00
					255

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	U-PVC 80 mm dia	1.57	No. @	233.00	365.81
	Jointing material			10%	36.58
					402.39
	Contractor's profit & overhead			20%	80.48
	Total Composite rate				737.87
					738
ii)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-35(a)1		300.00
					300
	2. Material				
	U-PVC 100 mm dia	2.12	No. @	348.50	738.82
	Jointing material			10%	73.88
					812.70
	Contractor's profit & overhead			20%	162.54
	Total Composite rate				1,275.24
					1,275
iii)	5" (125 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	1.80	Hrs @	87.50	157.50
					282.50
	Contractor's profit & overhead			20%	56.50
	Total Labour rate				339.00
					339
	2. Material				
	U-PVC 125 mm dia	1.79	No. @	608.38	1,086.56
	Jointing material			10%	108.66
					1,195.21
	Contractor's profit & overhead			20%	239.04
	Total Composite rate				1,773.26
					1,773
iv)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-35(a)3		356.84
					357
	2. Material				
	U-PVC 150 mm dia	1.61	No. @	954.88	1,537.35
	Jointing material			10%	153.73
					1,691.08
	Contractor's profit & overhead			20%	338.22
	Total Composite rate				2,386.14
					2,386
v)	8" (200 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	2.15	Hrs @	87.50	188.13
					313.13
	Contractor's profit & overhead			20%	62.63
	Total Labour rate				375.75
					376
	2. Material				
	U-PVC 200 mm dia	1.75	No. @	719.26	1,258.70
	Jointing material			10%	125.87
					1,384.57
	Contractor's profit & overhead			20%	276.91
	Total Composite rate				2,037.23
					2,037
vi)	10" (250 mm) dia				
	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate Same as in item 27-35(a)5		408.42		408
	2. Material				
	U-PVC 250 mm dia	1.54	No. @ 1503.50	2,315.39	
	Jointing material		10%	231.54	
				<u>2,546.93</u>	
	Contractor's profit & overhead		20%	509.39	
	Total Composite rate			<u>3,464.74</u>	3,465
vii)	12" (300 mm) dia				
	1. Labour				
	Pipe layer	2.00	Hrs @ 125.00	250.00	
	Labourer	1.71	Hrs @ 87.50	149.63	
				<u>399.63</u>	
	Contractor's profit & overhead		20%	79.93	
	Total Labour rate			<u>479.55</u>	480
	2. Material				
	U-PVC 300 mm dia	1.17	No. @ 2312.00	2,695.79	
	Jointing material		10%	269.58	
				<u>2,965.37</u>	
	Contractor's profit & overhead		20%	593.07	
	Total Composite rate			<u>4,038.00</u>	4,038
viii)	14" (350 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-35(a)7			510.16	510
	2. Material				
	U-PVC 350 mm dia	0.53	No. @ 6008.00	3,160.21	
	Jointing material		10%	316.02	
				<u>3,476.23</u>	
	Contractor's profit & overhead		20%	695.25	
	Total Composite rate			<u>4,681.63</u>	4,682
b)	Class D				
i)	1.25" (30 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50	
	Labourer	0.82	Hrs @ 87.50	71.75	
				<u>134.25</u>	
	Contractor's profit & overhead		20%	26.85	
	Total Labour rate			<u>161.10</u>	161
	2. Material				
	U-PVC tee 30 mm dia	3.15	No. @ 53.98	170.02	
	Jointing material		10%	17.00	
				<u>187.02</u>	
	Contractor's profit &		20%	37.40	
	Total Composite rate			<u>385.53</u>	386
ii)	1.5" (40 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-35(b)1			169.58	170
	2. Material				
	U-PVC tee 40 mm dia	2.80	No. @ 53.98	151.13	
	Jointing material		10%	15.11	
				<u>166.24</u>	
	Contractor's profit & overhead		20%	33.25	
	Total Composite rate			<u>369.07</u>	369

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
iii) 2" (50 mm) dia					
1. Labour					
Pipe layer	0.50 Hrs @	125.00			62.50
Labourer	1.00 Hrs @	87.50			87.50
					<u>150.00</u>
Contractor's profit & overhead		20%			30.00
Total Labour rate					<u>180.00</u> 180
2. Material					
U-PVC tee 30 mm dia	3.56 No. @	53.98			192.15
Jointing material		10%			19.22
					<u>211.37</u>
Contractor's profit & overhead		20%			42.27
Total Composite rate					<u>433.64</u> 434
iv) 3" (75 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-35(b)3				233.77 234
2. Material					
U-PVC tee 80 mm dia	1.04 No. @	348.50			362.44
Jointing material		10%			36.24
					<u>398.68</u>
Contractor's profit & overhead		20%			79.74
Total Composite rate					<u>712.19</u> 712
v) 4" (100 mm) dia					
1. Labour					
Pipe layer	1.00 Hrs @	125.00			125.00
Labourer	1.30 Hrs @	87.50			113.31
					<u>238.31</u>
Contractor's profit & overhead		20%			47.66
Total Labour rate					<u>285.98</u> 286
2. Material					
U-PVC tee 100 mm dia	1.56 No. @	475.55			739.48
Jointing material		10%			73.95
					<u>813.43</u>
Contractor's profit & overhead		20%			162.69
Total Composite rate					<u>1,262.09</u> 1,262
vi) 5" (125 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-35(b)5				357.50 358
2. Material					
U-PVC tee 125 mm dia	2.35 No. @	464.00			1,090.40
Jointing material		10%			109.04
					<u>1,199.44</u>
Contractor's profit & overhead		20%			239.89
Total Composite rate					<u>1,796.83</u> 1,797
vii) 6" (150 mm) dia					
1. Labour					
Pipe layer	1.00 Hrs @	125.00			125.00
Labourer	2.19 Hrs @	87.50			191.63
					<u>316.63</u>
Contractor's profit & overhead		20%			63.33
Total Labour rate					<u>379.95</u> 380
2. Material					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	U-PVC tee 150 mm dia	2.62	No. @	579.50	1,518.29
	Jointing material			10%	151.83
					1,670.12
	Contractor's profit & overhead			20%	334.02
	Total Composite rate				2,384.09
					2,384
Each	Item No. 27-36				
	Providing and installing uPVC bail or end plug of of approved make registered with PSQCA.				
	a) Class B				
	i) 3" (75 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	1.00	Hrs @	87.50	87.50
					212.50
	Contractor's profit & overhead			20%	42.50
	Total Labour rate				255.00
					255
	2. Material				
	U-PVC end plug 75 mm dia	1.85	No. @	140.60	260.11
	Jointing material			10%	26.01
					286.12
	Contractor's profit & overhead			20%	57.22
	Total Composite rate				598.35
					598
	ii) 4" (100 mm) dia				
	1. Labour				
	Total Labour rate				293.10
					293
	2. Material				
	U-PVC end plug 100 mm dia	2.28	No. @	152.15	346.90
	Jointing material			10%	34.69
					381.59
	Contractor's profit & overhead			20%	76.32
	Total Composite rate				751.01
					751
	iii) 5" (125 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	1.80	Hrs @	87.50	157.50
					282.50
	Contractor's profit & overhead			20%	56.50
	Total Labour rate				339.00
					339
	2. Material				
	U-PVC end plug 125 mm dia	1.82	No. @	198.35	361.00
	Jointing material			10%	36.10
					397.10
	Contractor's profit & overhead			20%	79.42
	Total Composite rate				815.52
					816
	iv) 6" (150 mm) dia				
	1. Labour				
	Total Labour rate				356.84
					357
	2. Material				
	U-PVC end plug 150 mm dia	1.44	No. @	348.50	501.84
	Jointing material			10%	50.18
					552.02
	Contractor's profit & overhead			20%	110.40
	Total Composite rate				1,019.27
					1,019

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
v) 8" (200 mm) dia					
1. Labour					
Pipe layer	1.00 Hrs @	125.00			125.00
Labourer	2.19 Hrs @	87.50			191.63
					<u>316.63</u>
Contractor's profit & overhead		20%			63.33
Total Labour rate					<u>379.95</u> 380
2. Material					
U-PVC end plug 200 mm dia	1.68 No. @	388.93			653.39
Jointing material		10%			65.34
					<u>718.73</u>
Contractor's profit & overhead		20%			143.75
Total Composite rate					<u>1,242.43</u> 1,242
vi) 10" (250 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-36(a)5				408.55 409
2. Material					
U-PVC end plug 250 mm dia	1.54 No. @	579.50			889.53
Jointing material		10%			88.95
					<u>978.49</u>
Contractor's profit & overhead		20%			195.70
Total Composite rate					<u>1,582.73</u> 1,583
vii) 12" (300 mm) dia					
1. Labour					
Pipe layer	2.00 Hrs @	125.00			250.00
Labourer	1.71 Hrs @	87.50			149.63
					<u>399.63</u>
Contractor's profit & overhead		20%			79.93
Total Labour rate					<u>479.55</u> 480
2. Material					
U-PVC end plug 300 mm dia	1.07 No. @	960.65			1,027.90
Jointing material		10%			102.79
					<u>1,130.69</u>
Contractor's profit & overhead		20%			226.14
Total Composite rate					<u>1,836.37</u> 1,836
viii) 14" (350 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-36(a)7				515.65 516
2. Material					
U-PVC end plug 350 mm dia	1.09 No. @	1157.00			1,261.13
Jointing material		10%			126.11
					<u>1,387.24</u>
Contractor's profit & overhead		20%			277.45
Total Composite rate					<u>2,180.34</u> 2,180
b) Class D					
i) 1.25" (30 mm) dia					
1. Labour					
Pipe layer	0.75 Hrs @	125.00			93.75
Labourer	0.60 Hrs @	87.50			52.50
					<u>146.25</u>
Contractor's profit & overhead		20%			29.25
Total Labour rate					<u>175.50</u> 176
2. Material					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	U-PVC end plug 30 mm dia	1.81	No. @	42.43	76.79
	Jointing material			10%	7.68
					84.47
	Contractor's profit & overhead			20%	16.89
	Total Composite rate				276.86
					277
ii)	1.25" (40 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-36(b)1			184.74
					185
	2. Material				
	U-PVC end plug 40 mm dia	2.89	No. @	42.43	122.61
	Jointing material			10%	12.26
					134.87
	Contractor's profit & overhead			20%	26.97
	Total Composite rate				346.58
					347
iii)	2" (50 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	0.51	Hrs @	87.50	44.63
					169.63
	Contractor's profit & overhead			20%	33.93
	Total Labour rate				203.55
					204
	2. Material				
	U-PVC end plug 50 mm dia	4.03	No. @	59.75	240.79
	Jointing material			10%	24.08
					264.87
	Contractor's profit & overhead			20%	52.97
	Total Composite rate				521.40
					521
iv)	3" (80 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-36(b)3			271.40
					271
	2. Material				
	U-PVC end plug 75 mm dia	2.92	No. @	89.78	262.16
	Jointing material			10%	26.22
					288.37
	Contractor's profit & overhead			20%	57.67
	Total Composite rate				617.45
					617
v)	4" (100 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	1.30	Hrs @	87.50	113.75
					238.75
	Contractor's profit & overhead			20%	47.75
	Total Labour rate				286.50
					287
	2. Material				
	U-PVC end plug 100 mm dia	3.10	No. @	120.97	374.99
	Jointing material			10%	37.50
					412.49
	Contractor's profit & overhead			20%	82.50
	Total Composite rate				781.49
					782
vi)	5" (125 mm) dia				
	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate Same as in item 27-36(b)5		349.39		349
	2. Material				
	U-PVC end plug 125 mm dia	2.00	No. @ 226.07	452.14	
	Jointing material		10%	45.21	
				497.35	
	Contractor's profit & overhead		20%	99.47	
	Total Composite rate			946.22	946
	vii) 6" (150 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @ 125.00	125.00	
	Labourer	1.93	Hrs @ 87.50	168.88	
				293.88	
	Contractor's profit & overhead		20%	58.78	
	Total Labour rate			352.65	353
	2. Material				
	U-PVC end plug 150 mm dia	1.40	No. @ 383.15	536.41	
	Jointing material		10%	53.64	
				590.05	
	Contractor's profit &		20%	118.01	
	Total Composite rate			1,060.71	1,061
Each	Item No. 27-37				
	Providing and installing PVC tapered core of approved make registered with PSQCA.				
	a) Class B				
	3" (75 mm) dia				
	1. Labour				
	Pipe layer	0.40	Hrs @ 125.00	50.00	
	Labourer	0.46	Hrs @ 87.50	40.25	
				90.25	
	Contractor's profit & overhead		20%	18.05	
	Total Labour rate			108.30	108
	2. Material				
	U-PVC tapered core 80 mm dia	2.21	No. @ 27.41	60.58	
	Jointing material		25%	15.14	
				75.72	
	Contractor's profit & overhead		20%	15.14	
	Total Composite rate			199.16	199
	4" (100 mm) dia				
	1. Labour				
	Total Labour rate Same as in item 27-37(a)1			116.45	116
	2. Material				
	U-PVC tapered core	1.60	No. @ 48.20	77.12	
	Jointing material		25%	19.28	
				96.40	
	Contractor's profit & overhead		20%	19.28	
	Total Composite rate			232.13	232
	5" (125 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @ 125.00	62.50	
	Labourer	0.50	Hrs @ 87.50	43.75	
				106.25	
	Contractor's profit & overhead		20%	21.25	
	Total Labour rate			127.50	128

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
2. Material					
	U-PVC tapered core 125 mm dia	1.74	No. @	58.60	101.96
	Jointing material			25%	25.49
					<u>127.44</u>
	Contractor's profit & overhead			20%	25.49
	Total Composite rate				<u>280.43</u> 280
6" (150 mm) dia					
1. Labour					
	Total Labour rate	Same as in item 27-37(a)3			141.67 142
2. Material					
	U-PVC tapered core 150 mm dia	1.30	No. @	84.01	109.21
	Jointing material			25%	27.30
					<u>136.51</u>
	Contractor's profit & overhead			20%	27.30
	Total Composite rate				<u>305.48</u> 306
8" (200 mm) dia					
1. Labour					
	Pipe layer	0.73	Hrs @	125.00	91.25
	Labourer	0.50	Hrs @	87.50	43.75
					<u>135.00</u>
	Contractor's profit & overhead			20%	27.00
	Total Labour rate				<u>162.00</u> 162
2. Material					
	U-PVC tapered core	1.61	No. @	115.19	185.46
	Jointing material			25%	46.36
					<u>231.82</u>
	Contractor's profit & overhead			20%	46.36
	Total Composite rate				<u>440.18</u> 440
Class D					
1.25" (30 mm) dia					
1. Labour					
	Pipe layer	0.20	Hrs @	125.00	25.00
	Labourer	0.65	Hrs @	87.50	56.88
					<u>81.88</u>
	Contractor's profit & overhead			20%	16.38
	Total Labour rate				<u>98.25</u> 98
2. Material					
	U-PVC tapered core 30 mm dia	1.00	No. @	20.48	20.48
	Jointing material			25%	5.12
					<u>25.60</u>
	Contractor's profit & overhead			20%	5.12
	Total Composite rate				<u>128.97</u> 129
1.5" (40 mm) dia					
1. Labour					
	Total Labour rate	Same as in item 27-37(b)1			105.65 106
2. Material					
	U-PVC tapered core 40 mm dia	1.00	No. @	27.41	27.41
	Jointing material			25%	6.85
					<u>34.26</u>
	Contractor's profit & overhead			20%	6.85
	Total Composite rate				<u>146.76</u> 147
2" (50 mm) dia					
1. Labour					

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
	Pipe layer	0.50	Hrs @	125.00	62.50	
	Labourer	0.50	Hrs @	87.50	43.75	
					106.25	
	Contractor's profit & overhead			20%	21.25	
	Total Labour rate				127.50	128
	2. Material					
	U-PVC tapered core 50 mm dia	0.80	No. @	40.12	32.09	
	Jointing material			25%	8.02	
					40.12	
	Contractor's profit &			20%	8.02	
	Total Composite rate				175.64	176
	Item No. 27-38					
Each	Providing and installing PVC conduit of Class B or D of approved make registered with PSQCA					
	a) 1.25" (30 mm) dia					
	1. Labour					
	Pipe layer	0.10	Hrs @	125.00	12.50	
	Labourer	0.75	Hrs @	87.50	65.63	
					78.13	
	Contractor's profit & overhead			20%	15.63	
	Total Labour rate				93.75	94
	2. Material					
	PVC conduit pipe 30 mm dia	1.26	No. @	39.80	50.15	
	Jointing material			25%	12.54	
					62.69	
	Contractor's profit & overhead			20%	12.54	
	Total Composite rate				168.97	169
	b) 1.5" (40 mm) dia					
	1. Labour					
	Total Labour rate			Same as in item 27-38(a)	100.81	101
	2. Material					
	PVC conduit pipe 40 mm dia	1.15	No. @	56.60	65.09	
	Jointing material			25%	16.27	
					81.36	
	Contractor's profit & overhead			20%	16.27	
	Total Composite rate				198.44	198
	c) 2" (50 mm) dia					
	1. Labour					
	Pipe layer	0.50	Hrs @	125.00	62.50	
	Labourer	0.50	Hrs @	87.50	43.75	
					106.25	
	Contractor's profit & overhead			20%	21.25	
	Total Labour rate				127.50	128
	2. Material					
	PVC conduit pipe 50 mm dia	1.28	No. @	75.50	96.64	
	Jointing material			25%	24.16	
					120.80	
	Contractor's profit & overhead			20%	24.16	
	Total Composite rate				272.46	272
	d) 3" (75 mm) dia					
	1. Labour					
	Total Labour rate			Same as in item 27-38(c)	141.67	142

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	PVC conduit pipe 75 mm dia	1.14	No. @	125.90	143.53
	Jointing material			25%	35.88
					179.41
	Contractor's profit & overhead			20%	35.88
	Total Composite rate				356.96
					357
e)	4" (100 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	0.70	Hrs @	87.50	61.08
					123.58
	Contractor's profit & overhead			20%	24.72
	Total Labour rate				148.29
					148
	2. Material				
	PVC conduit pipe 100mm dia	1.23	No. @	196.25	241.39
	Jointing material			25%	60.35
					301.73
	Contractor's profit & overhead			20%	60.35
	Total Composite rate				510.37
					510
	Item No. 27-39				
	Providing and installing PVC V socket of Class B or D of approved make registered with PSQCA.				
a)	1.25" (30 mm) dia				
	1. Labour				
	Pipe layer	0.36	Hrs @	125.00	45.00
	Labourer	0.50	Hrs @	87.50	43.75
					88.75
	Contractor's profit & overhead			20%	17.75
	Total Labour rate				106.50
					107
	2. Material				
	PVC socket 30 mm dia	0.92	No. @	53.98	49.66
	Jointing material			25%	12.41
					62.07
	Contractor's profit & overhead			20%	12.41
	Total Composite rate				180.99
					181
b)	1.5" (40 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-39(a)		114.52
					115
	2. Material				
	PVC socket 40 mm dia	0.91	No. @	88.63	80.65
	Jointing material			25%	20.16
					100.81
	Contractor's profit & overhead			20%	20.16
	Total Composite rate				235.49
					236
c)	2" (50 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	0.50	Hrs @	87.50	43.75
					106.25
	Contractor's profit & overhead			20%	21.25
	Total Labour rate				127.50
					128
	2. Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	PVC socket 50 mm dia	1.20	No. @	117.50	141.00
	Jointing material			25%	35.25
					176.25
	Contractor's profit & overhead			20%	35.25
	Total Composite rate				339.00
					339
	d) 3" (75 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-39(c)			141.67
					142
	2. Material				
	PVC socket 80 mm dia	1.07	No. @	221.45	236.95
	Jointing material			25%	59.24
					296.19
	Contractor's profit & overhead			20%	59.24
	Total Composite rate				497.09
					497
	e) 4" (100 mm) dia				
	1. Labour				
	Pipe layer	0.71	Hrs @	125.00	88.75
	Labourer	0.50	Hrs @	87.50	43.75
					132.50
	Contractor's profit & overhead			20%	26.50
	Total Labour rate				159.00
					159
	2. Material				
	PVC socket 100 mm dia	1.16	No. @	290.75	336.98
	Jointing material			25%	84.24
					421.22
	Contractor's profit & overhead			20%	84.24
	Total Composite rate				664.47
					664
Each	Item No. 27-40				
	Providing and installing PVC crosser of of approved make registered with PSQCA.				
	a) Class B				
	i) 3" (75 mm) dia				
	1. Labour				
	Pipe layer	0.46	Hrs @	125.00	57.50
	Labourer	1.50	Hrs @	87.50	131.25
					188.75
	Contractor's profit & overhead			20%	37.75
	Total Labour rate				226.50
					227
	2. Material				
	U-PVC crosser 80 mm dia	1.10	No. @	134.83	148.31
	Jointing material			10%	14.83
					163.14
	Contractor's profit & overhead			20%	32.63
	Total Composite rate				422.27
					422
	ii) 4" (100 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-40(a)1			263.37
					263
	2. Material				
	U-PVC crosser 100 mm dia	1.00	No. @	233.00	233.00
	Jointing material			10%	23.30
					256.30
	Contractor's profit & overhead			20%	51.26
	Total Composite rate				570.93
					571

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
iii) 5" (125 mm) dia					
1. Labour					
Pipe layer	1.00 Hrs @	125.00		125.00	
Labourer	1.80 Hrs @	87.50		157.50	
				<u>282.50</u>	
Contractor's profit & overhead		20%		56.50	
Total Labour rate				<u>339.00</u>	339
2. Material					
U-PVC crosser 125 mm dia	0.76 No. @	528.68		401.80	
Jointing material		10%		40.18	
				<u>441.98</u>	
Contractor's profit & overhead		20%		88.40	
Total Composite rate				<u>869.37</u>	869
iv) 6" (150 mm) dia					
1. Labour					
Total Labour rate	Same as in item 27-40(a)3			356.84	357
2. Material					
U-PVC crosser 150 mm dia	0.80 No. @	856.70		685.36	
Jointing material		10%		68.54	
				<u>753.90</u>	
Contractor's profit & overhead		20%		150.78	
Total Composite rate				<u>1,261.52</u>	1,262
v) 8" (200 mm) dia					
1. Labour					
Pipe layer	1.00 Hrs @	125.00		125.00	
Labourer	2.16 Hrs @	87.50		189.00	
				<u>314.00</u>	
Contractor's profit & overhead		20%		62.80	
Total Labour rate				<u>376.80</u>	377
2. Material					
U-PVC crosser 200 mm dia	0.82 No. @	1295.60		1,066.28	
Jointing material		10%		106.63	
				<u>1,172.91</u>	
Contractor's profit & overhead		20%		234.58	
Total Composite rate				<u>1,784.29</u>	1,784
vi) 10" (250 mm) dia.					
1. Labour					
Total Labour rate	Same as in item 27-40(a)5			409.57	410
2. Material					
U-PVC crosser 250 mm dia	0.87 No. @	1785.32		1,544.30	
Jointing material		10%		154.43	
				<u>1,698.73</u>	
Contractor's profit & overhead		20%		339.75	
Total Composite rate				<u>2,448.04</u>	2,448
vii) 12" (300 mm) dia.					
1. Labour					
Pipe layer	1.00 Hrs @	125.00		125.00	
Labourer	2.70 Hrs @	87.50		236.25	
				<u>361.25</u>	
Contractor's profit & overhead		20%		72.25	
Total Labour rate				<u>433.50</u>	434

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	U-PVC crosser 300 mm dia	0.65	No. @	3279.89	2,115.53
	Jointing material			10%	211.55
					<u>2,327.08</u>
	Contractor's profit & overhead			20%	465.42
	Total Composite rate				<u>3,226.00</u> 3,226
viii)	14" (350 mm) dia.				
	1. Labour				
	Total Labour rate		Same as in item 27-40(a)7		481.67 482
	2. Material				
	U-PVC crosser 350 mm dia	0.41	No. @	6808.42	2,791.45
	Jointing material			10%	279.15
					<u>3,070.60</u>
	Contractor's profit & overhead			20%	614.12
	Total Composite rate				<u>4,166.38</u> 4,166
b)	Class D				
i)	1.25" (30 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	0.80	Hrs @	87.50	70.00
					<u>132.50</u>
	Contractor's profit & overhead			20%	26.50
	Total Labour rate				<u>159.00</u> 159
	2. Material				
	U-PVC crosser 30 mm dia	1.16	No. @	66.68	77.35
	Jointing material			10%	7.73
					<u>85.08</u>
	Contractor's profit & overhead			20%	17.02
	Total Composite rate				<u>261.10</u> 261
ii)	1.5" (40 mm) dia				
	1. Labour				
	Total Labour rate		Same as in item 27-40(b)1		170.97 171
	2. Material				
	U-PVC crosser 40 mm dia	1.04	No. @	140.60	146.22
	Jointing material			10%	14.62
					<u>160.85</u>
	Contractor's profit & overhead			20%	32.17
	Total Composite rate				<u>363.98</u> 364
iii)	2" (50 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					<u>150.00</u>
	Contractor's profit & overhead			20%	30.00
	Total Labour rate				<u>180.00</u> 180
	2. Material				
	U-PVC crosser 50 mm dia	1.23	No. @	163.70	201.35
	Jointing material			10%	20.14
					<u>221.49</u>
	Contractor's profit & overhead			20%	44.30
	Total Composite rate				<u>445.78</u> 446
iv)	3" (75 mm) dia				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Total Labour rate	Same as in item 27-40(b)3		240.00	240
	2. Material				
	U-PVC crosser 80 mm dia	1.05	No. @	256.10	268.91
	Jointing material			10%	26.89
					<u>295.80</u>
	Contractor's profit & overhead			20%	59.16
	Total Composite rate				<u>594.95</u> 595
v)	4" (100 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	1.29	Hrs @	87.50	112.88
					<u>237.88</u>
	Contractor's profit & overhead			20%	47.58
	Total Labour rate				<u>285.45</u> 285
	2. Material				
	U-PVC crosser 100 mm dia	1.17	No. @	440.90	515.85
	Jointing material			10%	51.59
					<u>567.44</u>
	Contractor's profit & overhead			20%	113.49
	Total Composite rate				<u>966.38</u> 966
vi)	5" (125 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-40(b)5		348.11	348
	2. Material				
	U-PVC crosser 125 mm dia	1.05	No. @	1053.05	1,100.44
	Jointing material			10%	110.04
					<u>1,210.48</u>
	Contractor's profit & overhead			20%	242.10
	Total Composite rate				<u>1,800.69</u> 1,801
vii)	6" (150 mm) dia				
	1. Labour				
	Pipe layer	1.00	Hrs @	125.00	125.00
	Labourer	2.16	Hrs @	87.50	189.00
					<u>314.00</u>
	Contractor's profit & overhead			20%	62.80
	Total Labour rate				<u>376.80</u> 377
	2. Material				
	U-PVC crosser 150 mm dia	1.04	No. @	1699.85	1,767.84
	Jointing material			10%	176.78
					<u>1,944.63</u>
	Contractor's profit & overhead			20%	388.93
	Total Composite rate				<u>2,710.35</u> 2,710
	Item No. 27-41				
%	Add extra for respective payable item of ground floor				
a)	For first floor				10.0%
b)	For every additional floor above first floor				7.5%

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)

Item No. 27-42

Providing, laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997(rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-10, complete in all respects with specials and valves etc. including all fittings, connections and jointing material

a)					
1. Labour					
Labourer	0.10	Hrs	@	87.50	8.75
Pipe Fitter	0.10	Hrs	@	125.00	12.50
					21.25
Contractor's profit & overhead				20%	4.25
					25.50
					26
2. Material					
HDPE Pipes density 700-960 kg/cu.m (15mm)	1.00	R.M	@	38.00	38.00
Fittings and Special				30%	11.40
					49.40
Contractor's profit & overhead				20%	9.88
					59.28
					85
b)					
1. Labour					
Labourer	0.10	Hrs	@	87.50	8.75
Pipe Fitter	0.10	Hrs	@	125.00	12.50
					21.25
Contractor's profit & overhead				20%	4.25
					25.50
					26
2. Material					
HDPE Pipes density 700-960 kg/cu.m (20mm)	1.00	R.M	@	40.50	40.50
Fittings and Special				30%	12.15
					52.65
Contractor's profit & overhead				20%	10.53
					63.18
					89
c)					
1. Labour					
Labourer	0.25	Hrs	@	87.50	21.88
Pipe Fitter	0.25	Hrs	@	125.00	31.25
					53.13
Contractor's profit & overhead				20%	10.63
					63.75
					64
2. Material					
HDPE Pipes density 700-960 kg/cu.m (25mm)	1.00	R.M	@	49.46	49.46
Fittings and Special				30%	14.84
					64.30
Contractor's profit & overhead				20%	12.86
					77.16
					141
d)					
1. Labour					
Labourer	0.25	Hrs	@	87.50	21.88
Pipe Fitter	0.25	Hrs	@	125.00	31.25
					53.13
Contractor's profit & overhead				20%	10.63
					63.75
					64
2. Material					
HDPE Pipes density 700-960 kg/cu.m (32mm)	1.00	R.M	@	67.41	67.41
Fittings and Special				30%	20.22
					87.63
Contractor's profit & overhead				20%	17.53
					105.16
					169
e)					
1. Labour					
Labourer	0.25	Hrs	@	87.50	21.88
Pipe Fitter	0.25	Hrs	@	125.00	31.25
					53.13
Contractor's profit & overhead				20%	10.63
					63.75
					64
2. Material					

Unit	Description			Component Cost	Unit Rate
				(Rs)	(Rs)
	HDPE Pipes density 700-960 kg/cu.m (40mm)	1.00	R.M @	106.31	106.31
	Fittings and Special			30%	31.89
					138.20
	Contractor's profit & overhead			20%	27.64
					165.84
					230
f)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					53.13
	Contractor's profit & overhead			20%	10.63
					63.75
					64
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (45mm)	1.00	R.M @	141.31	141.31
	Fittings and Special			30%	42.39
					183.70
	Contractor's profit & overhead			20%	36.74
					220.44
					284
g)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					53.13
	Contractor's profit & overhead			20%	10.63
					63.75
					64
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (50mm)	1.00	R.M @	163.63	163.63
	Fittings and Special			30%	49.09
					212.72
	Contractor's profit & overhead			20%	42.54
					255.26
					319
h)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (63mm)	1.00	R.M @	260.12	260.12
	Fittings and Special			30%	78.04
					338.16
	Contractor's profit & overhead			20%	67.63
					405.79
					533
i)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (75mm)	1.00	R.M @	366.39	366.39
	Fittings and Special			30%	109.92
					476.31
	Contractor's profit & overhead			20%	95.26
					571.57
					699
j)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (90mm)	1.00	R.M @	526.07	526.07
	Fittings and Special			30%	157.82
					683.89
	Contractor's profit & overhead			20%	136.78
					820.67
					948

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
k)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead		20%		21.25
					127.50
					128
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (110mm)	1.00	R.M @	781.52	781.52
	Fittings and Special		30%		234.46
					1,015.98
	Contractor's profit & overhead		20%		203.20
					1,219.17
					1,347
l)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead		20%		21.25
					127.50
					128
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (125mm)	1.00	R.M @	998.46	998.46
	Fittings and Special		30%		299.54
					1,298.00
	Contractor's profit & overhead		20%		259.60
					1,557.60
					1,685
m)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead		20%		25.50
					153.00
					153
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (140mm)	1.00	R.M @	1450.00	1,450.00
	Fittings and Special		30%		435.00
					1,885.00
	Contractor's profit & overhead		20%		377.00
					2,262.00
					2,415
n)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead		20%		25.50
					153.00
					153
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (160mm)	1.00	R.M @	1640.94	1,640.94
	Fittings and Special		30%		492.28
					2,133.22
	Contractor's profit & overhead		20%		426.64
					2,559.87
					2,713
o)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead		20%		25.50
					153.00
					153
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (180mm)	1.00	R.M @	2072.76	2,072.76
	Fittings and Special		30%		621.83
					2,694.59
	Contractor's profit & overhead		20%		538.92
					3,233.51
					3,387

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
p)	1. Labour					
	Labourer	0.75	Hrs @	87.50	65.63	
	Pipe Fitter	0.75	Hrs @	125.00	93.75	
					159.38	
	Contractor's profit & overhead			20%	31.88	
					191.25	191
	2. Material					
	HDPE Pipes density 700-960 kg/cu.m (200mm)	1.00	R.M @	2550.00	2,550.00	
	Fittings and Special			30%	765.00	
					3,315.00	
Contractor's profit & overhead			20%	663.00		
				3,978.00	4,169	
q)	1. Labour					
	Labourer	0.75	Hrs @	87.50	65.63	
	Pipe Fitter	0.75	Hrs @	125.00	93.75	
					159.38	
	Contractor's profit & overhead			20%	31.88	
					191.25	191
	2. Material					
	HDPE Pipes density 700-960 kg/cu.m (225mm)	1.00	R.M @	3364.00	3,364.00	
	Fittings and Special			30%	1,009.20	
					4,373.20	
Contractor's profit & overhead			20%	874.64		
				5,247.84	5,439	
r)	1. Labour					
	Labourer	0.75	Hrs @	87.50	65.63	
	Pipe Fitter	0.75	Hrs @	125.00	93.75	
					159.38	
	Contractor's profit & overhead			20%	31.88	
					191.25	191
	2. Material					
	HDPE Pipes density 700-960 kg/cu.m (250mm)	1.00	R.M @	3960.00	3,960.00	
	Fittings and Special			30%	1,188.00	
					5,148.00	
Contractor's profit & overhead			20%	1,029.60		
				6,177.60	6,369	
s)	1. Labour					
	Labourer	1.00	Hrs @	87.50	87.50	
	Pipe Fitter	1.00	Hrs @	125.00	125.00	
					212.50	
	Contractor's profit & overhead			20%	42.50	
					255.00	255
	2. Material					
	HDPE Pipes density 700-960 kg/cu.m (280mm)	1.00	R.M @	5415.00	5,415.00	
	Fittings and Special			30%	1,624.50	
					7,039.50	
Contractor's profit & overhead			20%	1,407.90		
				8,447.40	8,702	
t)	1. Labour					
	Labourer	1.00	Hrs @	87.50	87.50	
	Pipe Fitter	1.00	Hrs @	125.00	125.00	
					212.50	
	Contractor's profit & overhead			20%	42.50	
					255.00	255
	2. Material					
	HDPE Pipes density 700-960 kg/cu.m (315mm)	1.00	R.M @	6866.00	6,866.00	
	Fittings and Special			30%	2,059.80	
					8,925.80	
Contractor's profit & overhead			20%	1,785.16		
				10,710.96	10,966	
u)	1. Labour					
	Labourer	1.00	Hrs @	87.50	87.50	
	Pipe Fitter	1.00	Hrs @	125.00	125.00	
					212.50	
Contractor's profit & overhead			20%	42.50		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			255.00		255
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (355mm)	1.00	R.M @	8836.88	8,836.88
	Fittings and Special			30%	<u>2,651.06</u>
					11,487.94
	Contractor's profit & overhead			20%	<u>2,297.59</u>
					13,785.53
					14,041
v)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	<u>156.25</u>
					265.63
	Contractor's profit & overhead			20%	<u>53.13</u>
					318.75
					319
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (400 mm)	1.00	R.M @	11109.77	11,109.77
	Fittings and Special			30%	<u>3,332.93</u>
					14,442.70
	Contractor's profit & overhead			20%	<u>2,888.54</u>
					17,331.24
					17,650
w)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	<u>156.25</u>
					265.63
	Contractor's profit & overhead			20%	<u>53.13</u>
					318.75
					319
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (450 mm)	1.00	R.M @	13886.53	13,886.53
	Fittings and Special			30%	<u>4,165.96</u>
					18,052.49
	Contractor's profit & overhead			20%	<u>3,610.50</u>
					21,662.99
					21,982
x)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	<u>156.25</u>
					265.63
	Contractor's profit & overhead			20%	<u>53.13</u>
					318.75
					319
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (500 mm)	1.00	R.M @	17673.77	17,673.77
	Fittings and Special			30%	<u>5,302.13</u>
					22,975.90
	Contractor's profit & overhead			20%	<u>4,595.18</u>
					27,571.08
					27,890
y)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	<u>187.50</u>
					318.75
	Contractor's profit & overhead			20%	<u>63.75</u>
					382.50
					383
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (560 mm)	1.00	R.M @	22847.50	22,847.50
	Fittings and Special			30%	<u>6,854.25</u>
					29,701.75
	Contractor's profit & overhead			20%	<u>5,940.35</u>
					35,642.10
					36,025
z)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	<u>187.50</u>
					318.75
	Contractor's profit & overhead			20%	<u>63.75</u>
					382.50
					383
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (630 mm)	1.00	R.M @	29293.00	29,293.00
	Fittings and Special			30%	<u>8,787.90</u>
					38,080.90
	Contractor's profit & overhead			20%	<u>7,616.18</u>

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
				45,697.08	46,080
za)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	187.50
					<u>318.75</u>
	Contractor's profit & overhead			20%	63.75
					<u>382.50</u>
					383
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (800 mm)	1.00	R.M @	40500.00	40,500.00
	Fittings and Special			30%	12,150.00
					<u>52,650.00</u>
	Contractor's profit & overhead			20%	10,530.00
					<u>63,180.00</u>
					63,563
	Item No. 27- 43				
	Providing, laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-16, complete in all respects with specials and valves etc. (including all fittings)				
a)	1. Labour				
	Labourer	0.10	Hrs @	87.50	8.75
	Pipe Fitter	0.10	Hrs @	125.00	12.50
					<u>21.25</u>
	Contractor's profit & overhead			20%	4.25
					<u>25.50</u>
					26
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (15mm)	1.00	R.M @	38.00	38.00
	Fittings and Special			30%	11.40
					<u>49.40</u>
	Contractor's profit & overhead			20%	9.88
					<u>59.28</u>
					85
b)	1. Labour				
	Labourer	0.10	Hrs @	87.50	8.75
	Pipe Fitter	0.10	Hrs @	125.00	12.50
					<u>21.25</u>
	Contractor's profit & overhead			20%	4.25
					<u>25.50</u>
					26
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (20mm)	1.00	R.M @	42.24	42.24
	Fittings and Special			30%	12.67
					<u>54.91</u>
	Contractor's profit & overhead			20%	10.98
					<u>65.89</u>
					91
c)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (25mm)	1.00	R.M @	62.08	62.08
	Fittings and Special			30%	18.62
					<u>80.70</u>
	Contractor's profit & overhead			20%	16.14
					<u>96.84</u>
					161
d)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (32mm)	1.00	R.M @	103.58	103.58

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Fittings and Special	30%	31.07		
	Contractor's profit & overhead	20%	134.65		
			26.93		
			161.58		225
e)	1. Labour				
	Labourer	0.25 Hrs @	87.50	21.88	
	Pipe Fitter	0.25 Hrs @	125.00	31.25	
				53.13	
	Contractor's profit & overhead	20%		10.63	
				63.75	64
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (40mm)	1.00 R.M @	156.00	156.00	
	Fittings and Special	30%		46.80	
				202.80	
	Contractor's profit & overhead	20%		40.56	
				243.36	307
f)	1. Labour				
	Labourer	0.25 Hrs @	87.50	21.88	
	Pipe Fitter	0.25 Hrs @	125.00	31.25	
				53.13	
	Contractor's profit & overhead	20%		10.63	
				63.75	64
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (45mm)	1.00 R.M @	175.00	175.00	
	Fittings and Special	30%		52.50	
				227.50	
	Contractor's profit & overhead	20%		45.50	
				273.00	337
g)	1. Labour				
	Labourer	0.25 Hrs @	87.50	21.88	
	Pipe Fitter	0.25 Hrs @	125.00	31.25	
				53.13	
	Contractor's profit & overhead	20%		10.63	
				63.75	64
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (50mm)	1.00 R.M @	241.61	241.61	
	Fittings and Special	30%		72.48	
				314.09	
	Contractor's profit & overhead	20%		62.82	
				376.91	441
h)	1. Labour				
	Labourer	0.50 Hrs @	87.50	43.75	
	Pipe Fitter	0.50 Hrs @	125.00	62.50	
				106.25	
	Contractor's profit & overhead	20%		21.25	
				127.50	128
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (63mm)	1.00 R.M @	381.53	381.53	
	Fittings and Special	30%		114.46	
				495.99	
	Contractor's profit & overhead	20%		99.20	
				595.19	723
i)	1. Labour				
	Labourer	0.50 Hrs @	87.50	43.75	
	Pipe Fitter	0.50 Hrs @	125.00	62.50	
				106.25	
	Contractor's profit & overhead	20%		21.25	
				127.50	128
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (75mm)	1.00 R.M @	532.20	532.20	
	Fittings and Special	30%		159.66	
				691.86	
	Contractor's profit & overhead	20%		138.37	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
				830.23	958
j)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (90mm)	1.00	R.M @	770.53	770.53
	Fittings and Special			30%	231.16
					1,001.69
	Contractor's profit & overhead			20%	200.34
					1,202.03
					1,330
k)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (110mm)	1.00	R.M @	1139.69	1,139.69
	Fittings and Special			30%	341.91
					1,481.60
	Contractor's profit & overhead			20%	296.32
					1,777.92
					1,905
l)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (125mm)	1.00	R.M @	1476.84	1,476.84
	Fittings and Special			30%	443.05
					1,919.89
	Contractor's profit & overhead			20%	383.98
					2,303.87
					2,431
m)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead			20%	25.50
					153.00
					153
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (140mm)	1.00	R.M @	1950.00	1,950.00
	Fittings and Special			30%	585.00
					2,535.00
	Contractor's profit & overhead			20%	507.00
					3,042.00
					3,195
n)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead			20%	25.50
					153.00
					153
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (160mm)	1.00	R.M @	2411.17	2,411.17
	Fittings and Special			30%	723.35
					3,134.52
	Contractor's profit & overhead			20%	626.90
					3,761.43
					3,914
o)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	127.50		
			25.50		
			<u>153.00</u>		153
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (180mm)	1.00	R.M @	3047.03	3,047.03
	Fittings and Special			30%	914.11
					<u>3,961.14</u>
	Contractor's profit & overhead	20%			792.23
					<u>4,753.37</u>
					4,906
p)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead	20%			31.88
					<u>191.25</u>
					191
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (200mm)	1.00	R.M @	3760.16	3,760.16
	Fittings and Special			30%	1,128.05
					<u>4,888.21</u>
	Contractor's profit & overhead	20%			977.64
					<u>5,865.85</u>
					6,057
q)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead	20%			31.88
					<u>191.25</u>
					191
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (225mm)	1.00	R.M @	5210.64	5,210.64
	Fittings and Special			30%	1,563.19
					<u>6,773.83</u>
	Contractor's profit & overhead	20%			1,354.77
					<u>8,128.60</u>
					8,320
r)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead	20%			31.88
					<u>191.25</u>
					191
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (250mm)	1.00	R.M @	5940.35	5,940.35
	Fittings and Special			30%	1,782.11
					<u>7,722.46</u>
	Contractor's profit & overhead	20%			1,544.49
					<u>9,266.95</u>
					9,458
s)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead	20%			42.50
					<u>255.00</u>
					255
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (280mm)	1.00	R.M @	9950.49	9,950.49
	Fittings and Special			30%	2,985.15
					<u>12,935.64</u>
	Contractor's profit & overhead	20%			2,587.13
					<u>15,522.76</u>
					15,778
t)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	212.50		
			42.50		
			<u>255.00</u>		255
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (315mm)	1.00	R.M @ 12825.20	12,825.20	
	Fittings and Special		30%	<u>3,847.56</u>	
				16,672.76	
	Contractor's profit & overhead	20%		<u>3,334.55</u>	
				<u>20,007.31</u>	20,262
u)	1. Labour				
	Labourer	1.00	Hrs @ 87.50	87.50	
	Pipe Fitter	1.00	Hrs @ 125.00	<u>125.00</u>	
				212.50	
	Contractor's profit & overhead	20%		<u>42.50</u>	
				<u>255.00</u>	255
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (355mm)	1.00	R.M @ 15597.45	15,597.45	
	Fittings and Special		30%	<u>4,679.24</u>	
				20,276.69	
	Contractor's profit & overhead	20%		<u>4,055.34</u>	
				<u>24,332.02</u>	24,587
v)	1. Labour				
	Labourer	1.25	Hrs @ 87.50	109.38	
	Pipe Fitter	1.25	Hrs @ 125.00	<u>156.25</u>	
				265.63	
	Contractor's profit & overhead	20%		<u>53.13</u>	
				<u>318.75</u>	319
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (400mm)	1.00	R.M @ 19983.75	19,983.75	
	Fittings and Special		30%	<u>5,995.12</u>	
				25,978.87	
	Contractor's profit & overhead	20%		<u>5,195.77</u>	
				<u>31,174.64</u>	31,493
w)	1. Labour				
	Labourer	1.25	Hrs @ 87.50	109.38	
	Pipe Fitter	1.25	Hrs @ 125.00	<u>156.25</u>	
				265.63	
	Contractor's profit & overhead	20%		<u>53.13</u>	
				<u>318.75</u>	319
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (450 mm)	1.00	R.M @ 24466.37	24,466.37	
	Fittings and Special		30%	<u>7,339.91</u>	
				31,806.28	
	Contractor's profit & overhead	20%		<u>6,361.26</u>	
				<u>38,167.54</u>	38,486
x)	1. Labour				
	Labourer	1.25	Hrs @ 87.50	109.38	
	Pipe Fitter	1.25	Hrs @ 125.00	<u>156.25</u>	
				265.63	
	Contractor's profit & overhead	20%		<u>53.13</u>	
				<u>318.75</u>	319
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (500 mm)	1.00	R.M @ 29248.07	29,248.07	
	Fittings and Special		30%	<u>8,774.42</u>	
				38,022.49	
	Contractor's profit & overhead	20%		<u>7,604.50</u>	
				<u>45,626.99</u>	45,946
y)	1. Labour				
	Labourer	1.50	Hrs @ 87.50	131.25	
	Pipe Fitter	1.50	Hrs @ 125.00	<u>187.50</u>	
				318.75	
	Contractor's profit & overhead	20%		<u>63.75</u>	
				<u>382.50</u>	383
	2.Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	HDPE Pipes density 700-960 kg/cu.m (560 mm)	1.00	R.M @	40725.28	40,725.28
	Fittings and Special			30%	<u>12,217.58</u>
					52,942.86
	Contractor's profit & overhead			20%	<u>10,588.57</u>
					63,531.44
					63,914
z)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	<u>187.50</u>
					318.75
	Contractor's profit & overhead			20%	<u>63.75</u>
					382.50
					383
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (630 mm)	1.00	R.M @	48558.16	48,558.16
	Fittings and Special			30%	<u>14,567.45</u>
					63,125.61
	Contractor's profit & overhead			20%	<u>12,625.12</u>
					75,750.73
					76,133
za)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	<u>187.50</u>
					318.75
	Contractor's profit & overhead			20%	<u>63.75</u>
					382.50
					383
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (800 mm)	1.00	R.M @	60525.00	60,525.00
	Fittings and Special			30%	<u>18,157.50</u>

Unit	Description	Component Cost	Unit Rate	
			(Rs)	(Rs)
		78,682.50		
	Contractor's profit & overhead	20%	15,736.50	
			94,419.00	94,802
	Item No. 27-44			
	Providing and fixing LDPE overhead tank manufactured by Dura, super tuff or equivalent on top of any floor			
Each	a) 300 gallons capacity			
	1. Labour			
	Plumber	4.00	Hrs @	125.00
	Pipe Fitter	4.00	Hrs @	125.00
				500.00
				500.00
				1,000.00
	Contractor's profit & overhead		20%	200.00
				1,200.00
				1,200
	2. Material			
	LDPE overhead tank, 300 gallons capacity	1.00	No. @	14880.00
	Sundries			5%
				744.00
				15,624.00
	Contractor's profit & overhead		20%	3,124.80
	Total Composite rate			19,948.80
				19,949
Each	b) 500 gallons capacity			
	1. Labour			
	Plumber	4.00	Hrs @	125.00
	Pipe Fitter	4.00	Hrs @	125.00
				500.00
				500.00
				1,000.00
	Contractor's profit & overhead		20%	200.00
				1,200.00
				1,200
	2. Material			
	LDPE overhead tank, 500 gallons capacity	1.00	No. @	23040.00
	Sundries			5%
				1,152.00
				24,192.00
	Contractor's profit & overhead		20%	4,838.40
	Total Composite rate			30,230.40
				30,230
Each	c) 1000 gallons capacity			
	1. Labour			
	Plumber	4.00	Hrs @	125.00
	Pipe Fitter	4.00	Hrs @	125.00
				500.00
				500.00
				1,000.00
	Contractor's profit & overhead		20%	200.00
				1,200.00
				1,200
	2. Material			
	LDPE overhead tank, 1000 gallons capacity	1.00	No. @	48800.00
	Sundries			5%
				2,440.00
				51,240.00
	Contractor's profit & overhead		20%	10,248.00
	Total Composite rate			62,688.00
				62,688
Each	d) 1200 gallons capacity			
	1. Labour			
	Plumber	4.00	Hrs @	125.00
	Pipe Fitter	4.00	Hrs @	125.00
				500.00
				500.00
				1,000.00
	Contractor's profit & overhead		20%	200.00
				1,200.00
				1,200
	2. Material			
	LDPE overhead tank, 1200 gallons capacity	1.00	No. @	57200.00
	Sundries			5%
				2,860.00
				60,060.00
	Contractor's profit & overhead		20%	12,012.00
	Total Composite rate			73,272.00
				73,272
Each	e) 1500 gallons capacity			
	1. Labour			
	Plumber	4.00	Hrs @	125.00
	Pipe Fitter	4.00	Hrs @	125.00
				500.00
				500.00
				1,000.00
	Contractor's profit & overhead		20%	200.00
				1,200.00
				1,200

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	LDPE overhead tank, 1500 gallons capacity	1.00	No. @	64000.00	64,000.00
	Sundries			5%	3,200.00
					67,200.00
	Contractor's profit & overhead			20%	13,440.00
	Total Composite rate				81,840.00
Each	f) 1800 gallons capacity				
	1. Labour				
	Plumber	6.00	Hrs @	125.00	750.00
	Pipe Fitter	6.00	Hrs @	125.00	750.00
					1,500.00
	Contractor's profit & overhead			20%	300.00
					1,800.00
	2. Material				
	LDPE overhead tank, 1800 gallons capacity	1.00	No. @	76800.00	76,800.00
	Sundries			5%	3,840.00
					80,640.00
	Contractor's profit & overhead			20%	16,128.00
	Total Composite rate				98,568.00
Each	g) 2500 gallons capacity				
	1. Labour				
	Plumber	8.00	Hrs @	125.00	1,000.00
	Pipe Fitter	8.00	Hrs @	125.00	1,000.00
					2,000.00
	Contractor's profit & overhead			20%	400.00
					2,400.00
	2. Material				
	LDPE overhead tank, 2500 gallons capacity	1.00	No. @	105000.00	105,000.00
	Sundries			5%	5,250.00
					110,250.00
	Contractor's profit & overhead			20%	22,050.00
	Total Composite rate				134,700.00
Cu.m	Item No. 27-45-1				
	Cleaning of overhead water tank				
	Detail for 455 Cu.m (100,000 gallons tank)				
	1. Labour				
	Plumber	8.00	Hrs @	125.00	1,000.00
	Labourer	72.00	Hrs @	87.50	6,300.00
					7,300.00
	Contractor's profit & overhead			20%	1,460.00
	Total Labour rate				19.25
	2. Material				
	Washing powder	2.00	Kg @	50.00	100.00
	Disinfectant			100%	100.00
	Same as washing powder				200.00
	Contractor's profit & overhead			20%	40.00
	Total Composite rate				19.78
Gallon	Item No. 27-46				
	Supply and fixing 1/8" thick galvanized iron sheet water tank of approved design and size including covering and locking arrangement and erection and positioning excluding the cost of pillars and painting				
	Considering 4' x 4' x 4' size tank				
	Capacity = 400.00 Gals.				
	1. Labour				
	Total Labour rate				1,080.00
	Same as in item 31.75(i)				1,080.00
	2. Material				
	G.I. sheet tank 400 Gals. capacity	1.00	No. @	42000.00	42,000.00
	Sundries			5%	2,100.00
					44,100.00
	Contractor's profit & overhead			20%	8,400.00
	Total Composite rate				53,580.00
	Item No. 27-47b				
	Providing, laying, cutting, jointing, testing and disinfecting PPRC pipes confirming to ISO 4427, PN-20, complete in all respects with specials and valves etc. including all fittings, connections and				

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
jointing material						
i)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					<u>8.50</u>	
	Contractor's profit & overhead		20%		1.70	
					<u>10.20</u>	10
	2. Material					
	1/2 inch (15mm) Dia	1.00	R.M @	41.06	41.06	
	Fittings and Special		30%		12.32	
					<u>53.37</u>	
Contractor's profit & overhead		20%		10.67		
				<u>64.05</u>	74	
ii)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					<u>8.50</u>	
	Contractor's profit & overhead		20%		1.70	
					<u>10.20</u>	10
	2. Material					
	3/4 inch (20mm) dia	1.00	R.M @	47.14	47.14	
	Fittings and Special		30%		14.14	
					<u>61.29</u>	
Contractor's profit & overhead		20%		12.26		
				<u>73.55</u>	99	
iii)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					<u>8.50</u>	
	Contractor's profit & overhead		20%		1.70	
					<u>10.20</u>	10
	2. Material					
	1 inch (25mm) dia	1.00	R.M @	63.98	63.98	
	Fittings and Special		30%		19.19	
					<u>83.17</u>	
Contractor's profit & overhead		20%		16.63		
				<u>99.80</u>	164	
iv)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					<u>8.50</u>	
	Contractor's profit & overhead		20%		1.70	
					<u>10.20</u>	10
	2. Material					
	1.25inch (32mm) dia	1.00	R.M @	111.12	111.12	
	Fittings and Special		30%		33.34	
					<u>144.46</u>	
Contractor's profit & overhead		20%		28.89		
				<u>173.35</u>	184	

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
(v)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					8.50	
	Contractor's profit & overhead			20%	1.70	
					10.20	10
	2. Material					
	1.5 inch (40mm) dia Fittings and Special	1.00	R.M @	161.63	161.63	
				30%	48.49	
					210.12	
Contractor's profit & overhead			20%	42.02		
				252.14	262	
(vi)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					8.50	
	Contractor's profit & overhead			20%	1.70	
					10.20	10
	2. Material					
	2 inch (50mm) dia Fittings and Special	1.00	R.M @	235.71	235.71	
				30%	70.71	
					306.43	
Contractor's profit & overhead			20%	61.29		
				367.71	378	
(vii)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					8.50	
	Contractor's profit & overhead			20%	1.70	
					10.20	10
	2. Material					
	2.5inch (63mm) dia Fittings and Special	1.00	R.M @	397.34	397.34	
				30%	119.20	
					516.55	
Contractor's profit & overhead			20%	103.31		
				619.86	630	
(viii)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					8.50	
	Contractor's profit & overhead			20%	1.70	
					10.20	10
	2. Material					
	3 inch (75mm) dia Fittings and Special	1.00	R.M @	366.39	366.39	
				30%	109.92	
					476.31	
Contractor's profit & overhead			20%	95.26		
				571.57	582	
(ix)	1. Labour					
	Labourer	0.04	Hrs @	87.50	3.50	
	Pipe Fitter	0.04	Hrs @	125.00	5.00	
					8.50	
	Contractor's profit & overhead			20%	1.70	
					10.20	10
	2. Material					
	3.5 inch (90mm) dia Fittings and Special	1.00	R.M @	526.07	526.07	
				30%	157.82	
					683.89	
Contractor's profit & overhead			20%	136.78		
				820.67	831	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
(x)	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.06	Hrs @ 125.00		7.50
					11.00
	Contractor's profit & overhead		20%		2.20
					13.20
					13
	2. Material				
	4 inch (110mm) dia	1.00	R.M @ 781.52		781.52
	Fittings and Special		30%		234.46
					1,015.98
	Contractor's profit & overhead		20%		203.20
					1,219.17
					1,232
R.M.	Item No. 27-48				
	Supplying uPVC pipe including specials and jointing material, Dadex or equivalent of approved make registered with PSQCA.				
a)	Class B				
i)	3" (75 mm) dia				
	1. Material				
	U-PVC 75 mm dia	1.00	R.M. @ 314.40		314.40
	Specials		30%		94.32
	Jointing material		2%		8.17
					416.89
	Total Composite rate				416.89
					417
ii)	4" (100 mm) dia				
	1. Material				
	U-PVC 100 mm dia	1.00	R.M. @ 477.60		477.60
	Specials		30%		143.28
	Jointing material		2%		12.42
					633.30
	Total Composite rate				633.30
					633
iii)	5" (125 mm) dia				
	1. Material				
	U-PVC 125 mm dia	1.00	R.M. @ 668.80		668.80
	Specials		30%		200.64
	Jointing material		2%		17.39
					886.83
	Total Composite rate				886.83
					887
iv)	6" (150 mm) dia				
	1. Material				
	U-PVC 150 mm dia	1.00	R.M. @ 936.80		936.80
	Specials		30%		281.04
	Jointing material		2%		24.36
					1,242.20
	Total Composite rate				1,242.20
					1,242
v)	8" (200 mm) dia				
	1. Material				
	U-PVC 200 mm dia	1.00	R.M. @ 1430.40		1,430.40
	Specials		30%		429.12
	Jointing material		2%		37.19
					1,896.71
	Total Composite rate				1,896.71
					1,897
vi)	10" (250 mm) dia				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Material				
	U-PVC 250 mm dia	1.00	R.M. @ 2309.60		2,309.60
	Specialls		30%		692.88
	Jointing material		2%		60.05
					<u>3,062.53</u>
	Total Composite rate				3,062.53
vii)	12" (300 mm) dia				3,063
	1. Material				
	U-PVC 300 mm dia	1.00	R.M. @ 3207.20		3,207.20
	Specialls		30%		962.16
	Jointing material		2%		83.39
					<u>4,252.75</u>
	Total Composite rate				4,252.75
viii)	14" (350 mm) dia				4,253
	1. Material				
	U-PVC 350 mm dia	1.00	R.M. @ 4068.00		4,068.00
	Specialls		30%		1,220.40
	Jointing material		2%		105.77
					<u>5,394.17</u>
	Total Composite rate				5,394.17
ix)	16" (400 mm) dia				5,394
	1. Material				
	U-PVC 400 mm dia	1.00	R.M. @ 5459.20		5,459.20
	Specialls		30%		1,637.76
	Jointing material		2%		141.94
					<u>7,238.90</u>
	Total Composite rate				7,238.90
x)	18" (450 mm) dia				7,239
	1. Material				
	U-PVC 450 mm dia	1.00	R.M. @ 8556.00		8,556.00
	Specialls		30%		2,566.80
	Jointing material		2%		222.46
					<u>11,345.26</u>
	Total Composite rate				11,345.26
xi)	20" (500 mm) dia				11,345
	1. Material				
	U-PVC 500 mm dia	1.00	R.M. @ 10760.80		10,760.80
	Specialls		30%		3,228.24
	Jointing material		2%		279.78
					<u>14,268.82</u>
	Total Composite rate				14,268.82
xii)	22" (550 mm) dia				14,269
	1. Material				
	U-PVC 550 mm dia	1.00	R.M. @ 13648.00		13,648.00
	Specialls		30%		4,094.40
	Jointing material		2%		354.85
					<u>18,097.25</u>
	Total Composite rate				18,097.25
xiii)	24" (600 mm) dia				18,097
	1. Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	U-PVC 600 mm dia	1.00	R.M. @	16797.60	16,797.60
	Specials			30%	5,039.28
	Jointing material			2%	436.74
					<u>22,273.62</u>
	Total Composite rate				22,273.62
					22,274
b) Class C					
i) 3" (75 mm) dia					
	1. Material				
	U-PVC 75 mm dia	1.00	R.M. @	377.95	377.95
	Specials			30%	113.39
	Jointing material			2%	9.83
					<u>501.16</u>
	Total Composite rate				501.16
					501
ii) 4" (100 mm) dia					
	1. Material				
	U-PVC 100 mm dia	1.00	R.M. @	616.79	616.79
	Specials			30%	185.04
	Jointing material			2%	16.04
					<u>817.87</u>
	Total Composite rate				817.87
					818
iii) 5" (125 mm) dia					
	1. Material				
	U-PVC 125 mm dia	1.00	R.M. @	934.37	934.37
	Specials			30%	280.31
	Jointing material			2%	24.29
					<u>1,238.97</u>
	Total Composite rate				1,238.97
					1,239
iv) 6" (150 mm) dia					
	1. Material				
	U-PVC 150 mm dia	1.00	R.M. @	1351.20	1,351.20
	Specials			30%	405.36
	Jointing material			2%	35.13
					<u>1,791.69</u>
	Total Composite rate				1,791.69
					1,792
v) 8" (200 mm) dia					
	1. Material				
	U-PVC 200 mm dia	1.00	R.M. @	2068.22	2,068.22
	Specials			30%	620.46
	Jointing material			2%	53.77
					<u>2,742.45</u>
	Total Composite rate				2,742.45
					2,742
vi) 10" (250 mm) dia					
	1. Material				
	U-PVC 250 mm dia	1.00	R.M. @	3359.20	3,359.20
	Specials			30%	1,007.76
	Jointing material			2%	87.34
					<u>4,454.30</u>
	Total Composite rate				4,454.30
					4,454
vii) 12" (300 mm) dia					
	1. Material				
	U-PVC 300 mm dia	1.00	R.M. @	4724.00	4,724.00
	Specials			30%	1,417.20

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Jointing material	2%	122.82		
	Total Composite rate		6,264.02		6,264
viii)	14" (350 mm) dia				
	1. Material				
	U-PVC 350 mm dia	1.00 R.M. @	5682.34	5,682.34	
	Specials	30%	1,704.70	1,704.70	
	Jointing material	2%	147.74	147.74	
	Total Composite rate		7,534.79	7,534.79	7,535
ix)	16" (400 mm) dia				
	1. Material				
	U-PVC 400 mm dia	1.00 R.M. @	7873.60	7,873.60	
	Specials	30%	2,362.08	2,362.08	
	Jointing material	2%	204.71	204.71	
	Total Composite rate		10,440.39	10,440.39	10,440
x)	18" (450 mm) dia				
	1. Material				
	U-PVC 450 mm dia	1.00 R.M. @	13385.60	13,385.60	
	Specials	30%	4,015.68	4,015.68	
	Jointing material	2%	348.03	348.03	
	Total Composite rate		17,749.31	17,749.31	17,749
xi)	20" (500 mm) dia				
	1. Material				
	U-PVC 500 mm dia	1.00 R.M. @	16666.40	16,666.40	
	Specials	30%	4,999.92	4,999.92	
	Jointing material	2%	433.33	433.33	
	Total Composite rate		22,099.65	22,099.65	22,100
xii)	22" (550 mm) dia				
	1. Material				
	U-PVC 550 mm dia	1.00 R.M. @	20149.36	20,149.36	
	Specials	30%	6,044.81	6,044.81	
	Jointing material	2%	523.88	523.88	
	Contractor's profit & overhead	20%	26,718.05	26,718.05	
	Total Composite rate		5,343.61	5,343.61	
	Total Composite rate		32,061.66	32,061.66	32,062
xiii)	24" (600 mm) dia				
	1. Material				
	U-PVC 600 mm dia	1.00 R.M. @	23965.58	23,965.58	
	Specials	30%	7,189.68	7,189.68	
	Jointing material	2%	623.11	623.11	
	Contractor's profit & overhead	20%	31,778.36	31,778.36	
	Total Composite rate		6,355.67	6,355.67	
	Total Composite rate		38,134.04	38,134.04	38,134
c)	Class D				
i)	3" (75 mm) dia				
	1. Material				
	U-PVC 75 mm dia	1.00 R.M. @	328.08	328.08	
	Specials	30%	98.42	98.42	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Jointing material	2%	8.53		
	Total Composite rate		435.03		435
ii)	4" (100 mm) dia				
	1. Material				
	U-PVC 100 mm dia	1.00 R.M. @	488.18	488.18	
	Specials	30%	146.46		
	Jointing material	2%	12.69		
	Total Composite rate		647.33		647
iii)	5" (125 mm) dia				
	1. Material				
	U-PVC 125 mm dia	1.00 R.M. @	813.64	813.64	
	Specials	30%	244.09		
	Jointing material	2%	21.15		
	Total Composite rate		1,078.89		1,079
iv)	6" (150 mm) dia				
	1. Material				
	U-PVC 150 mm dia	1.00 R.M. @	1209.96	1,209.96	
	Specials	30%	362.99		
	Jointing material	2%	31.46		
	Total Composite rate		1,604.41		1,604
v)	8" (200 mm) dia				
	1. Material				
	U-PVC 200 mm dia	1.00 R.M. @	1748.01	1,748.01	
	Specials	30%	524.40		
	Jointing material	2%	45.45		
	Total Composite rate		2,317.86		2,318
vi)	10" (250 mm) dia				
	1. Material				
	U-PVC 250 mm dia	1.00 R.M. @	2690.26	2,690.26	
	Specials	30%	807.08		
	Jointing material	2%	69.95		
	Total Composite rate		3,567.28		3,567
vii)	12" (300 mm) dia				
	1. Material				
	U-PVC 300 mm dia	1.00 R.M. @	4330.66	4,330.66	
	Specials	30%	1,299.20		
	Jointing material	2%	112.60		
	Total Composite rate		5,742.45		5,742
viii)	14" (350 mm) dia				
	1. Material				
	U-PVC 350 mm dia	1.00 R.M. @	6561.60	6,561.60	
	Specials	30%	1,968.48		
	Jointing material	2%	170.60		
	Total Composite rate		8,700.68		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		8,700.68		8,701
ix)	16" (400 mm) dia				
	1. Material				
	U-PVC 400 mm dia	1.00	R.M. @ 7839.20	7,839.20	
	Specials		30%	2,351.76	
	Jointing material		2%	203.82	
	Total Composite rate			10,394.78	10,395
x)	18" (450 mm) dia				
	1. Material				
	U-PVC 450 mm dia	1.00	R.M. @ 11285.95	11,285.95	
	Specials		30%	3,385.79	
	Jointing material		2%	293.43	
	Total Composite rate			14,965.17	14,965
xi)	20" (500 mm) dia				
	1. Material				
	U-PVC 500 mm dia	1.00	R.M. @ 18109.60	18,109.60	
	Specials		30%	5,432.88	
	Jointing material		2%	470.85	
	Total Composite rate			24,013.33	24,013
xii)	22" (550 mm) dia				
	1. Material				
	U-PVC 550 mm dia	1.00	R.M. @ 26000.00	26,000.00	
	Specials		30%	7,800.00	
	Jointing material		2%	676.00	
	Total Composite rate			34,476.00	34,476
xiii)	24" (600 mm) dia				
	1. Material				
	U-PVC 600 mm dia	1.00	R.M. @ 38848.00	38,848.00	
	Specials		30%	11,654.40	
	Jointing material		2%	1,010.05	
	Total Composite rate			51,512.45	51,512
D) Class E					
i)	3" (75 mm) dia				
	1. Material				
	U-PVC 75 mm dia	1.00	R.M. @ 603.66	603.66	
	Specials		30%	181.10	
	Jointing material		2%	15.70	
	Total Composite rate			800.46	800
ii)	4" (100 mm) dia				
	1. Material				
	U-PVC 100 mm dia	1.00	R.M. @ 984.24	984.24	
	Specials		30%	295.27	
	Jointing material		2%	25.59	
	Total Composite rate			1,305.10	1,305

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
iii) 5" (125 mm) dia					
	1. Material				
	U-PVC 125 mm dia	1.00	R.M. @ 1509.17	1,509.17	
	Specials		30%	452.75	
	Jointing material		2%	39.24	
				<u>2,001.16</u>	
	Total Composite rate			2,001.16	2,001
iv) 6" (150 mm) dia					
	1. Material				
	U-PVC 150 mm dia	1.00	R.M. @ 2120.71	2,120.71	
	Specials		30%	636.21	
	Jointing material		2%	55.14	
				<u>2,812.06</u>	
	Total Composite rate			2,812.06	2,812
v) 8" (200 mm) dia					
	1. Material				
	U-PVC 200 mm dia	1.00	R.M. @ 3233.56	3,233.56	
	Specials		30%	970.07	
	Jointing material		2%	84.07	
				<u>4,287.70</u>	
	Total Composite rate			4,287.70	4,288
vi) 10" (250 mm) dia					
	1. Material				
	U-PVC 250 mm dia	1.00	R.M. @ 5721.71	5,721.71	
	Specials		30%	1,716.51	
	Jointing material		2%	148.76	
				<u>7,586.99</u>	
	Total Composite rate			7,586.99	7,587
vii) 12" (300 mm) dia					
	1. Material				
	U-PVC 300 mm dia	1.00	R.M. @ 8005.15	8,005.15	
	Specials		30%	2,401.55	
	Jointing material		2%	208.13	
				<u>10,614.83</u>	
	Total Composite rate			10,614.83	10,615
viii) 14" (350 mm) dia					
	1. Material				
	U-PVC 350 mm dia	1.00	R.M. @ 10495.94	10,495.94	
	Specials		30%	3,148.78	
	Jointing material		2%	272.89	
				<u>13,917.61</u>	
	Total Composite rate			13,917.61	13,918
ix) 16" (400 mm) dia					
	1. Material				
	U-PVC 400 mm dia	1.00	R.M. @ 15222.40	15,222.40	
	Specials		30%	4,566.72	
	Jointing material		2%	395.78	
				<u>20,184.90</u>	
	Total Composite rate			20,184.90	20,185
x) 18" (450 mm) dia					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Material				
	U-PVC 450 mm dia	1.00	R.M. @	23160.00	23,160.00
	Specialls			30%	6,948.00
	Jointing material			2%	602.16
	Total Composite rate				30,710.16
					30,710.16
	xi) 20" (500 mm) dia				30,710
	1. Material				
	U-PVC 500 mm dia	1.00	R.M. @	31160.00	31,160.00
	Specialls			30%	9,348.00
	Jointing material			2%	810.16
	Total Composite rate				41,318.16
					41,318.16
	xii) 22" (550 mm) dia				41,318
	1. Material				
	U-PVC 550 mm dia	1.00	R.M. @	41600.00	41,600.00
	Specialls			30%	12,480.00
	Jointing material			2%	1,081.60
	Total Composite rate				55,161.60
					55,161.60
	xiii) 24" (600 mm) dia				55,162
	1. Material				
	U-PVC 600 mm dia	1.00	R.M. @	52000.00	52,000.00
	Specialls			30%	15,600.00
	Jointing material			2%	1,352.00
	Total Composite rate				68,952.00
					68,952.00
	68,952				
R.M.	Item No. 27-49				
	Installing uPVC pipe of approved make registered with PSQCA in sewerlines and/or laying, cutting, jointing, testing including all specials in pipe lines in trenches.				
	a) Class B				
	i) 3" (75 mm) dia				
	1. Labour				
	Pipe layer	0.10	Hrs @	125.00	12.50
	Labourer	0.20	Hrs @	87.50	17.50
					30.00
	Contractor's profit & overhead			20%	6.00
	Total Labour rate				36.00
					36
	ii) 4" (100 mm) dia				
	1. Labour				
	Pipe layer	0.10	Hrs @	125.00	12.50
	Labourer	0.20	Hrs @	87.50	17.50
					30.00
	Contractor's profit & overhead			20%	6.00
	Total Labour rate				36.00
					36
	iii) 5" (125 mm) dia				
	1. Labour				
	Pipe layer	0.15	Hrs @	125.00	18.75
	Labourer	0.30	Hrs @	87.50	26.25
					45.00
	Contractor's profit & overhead			20%	9.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		54.00		54
iv)	6" (150 mm) dia				
	1. Labour				
	Pipe layer	0.15	Hrs @ 125.00	18.75	
	Labourer	0.30	Hrs @ 87.50	26.25	
				<u>45.00</u>	
	Contractor's profit & overhead		20%	9.00	
	Total Labour rate			<u>54.00</u>	54
v)	8" (200 mm) dia				
	1. Labour				
	Pipe layer	0.15	Hrs @ 125.00	18.75	
	Labourer	0.30	Hrs @ 87.50	26.25	
				<u>45.00</u>	
	Contractor's profit & overhead		20%	9.00	
	Total Labour rate			<u>54.00</u>	54
vi)	10" (250 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00	
	Labourer	0.40	Hrs @ 87.50	35.00	
				<u>60.00</u>	
	Contractor's profit & overhead		20%	12.00	
	Total Labour rate			<u>72.00</u>	72
vii)	12" (300 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00	
	Labourer	0.40	Hrs @ 87.50	35.00	
				<u>60.00</u>	
	Contractor's profit & overhead		20%	12.00	
	Total Labour rate			<u>72.00</u>	72
viii)	14" (350 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @ 125.00	25.00	
	Labourer	0.40	Hrs @ 87.50	35.00	
				<u>60.00</u>	
	Contractor's profit & overhead		20%	12.00	
	Total Labour rate			<u>72.00</u>	72
ix)	16" (400 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50	
	Labourer	0.60	Hrs @ 87.50	52.50	
				<u>90.00</u>	
	Contractor's profit & overhead		20%	18.00	
	Total Labour rate			<u>108.00</u>	108
x)	18" (450 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @ 125.00	37.50	
	Labourer	0.60	Hrs @ 87.50	52.50	
				<u>90.00</u>	
	Contractor's profit & overhead		20%	18.00	
	Total Labour rate			<u>108.00</u>	108

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
xi) 20" (500 mm) dia					
1. Labour					
Pipe layer	0.30 Hrs @	125.00		37.50	
Labourer	0.60 Hrs @	87.50		52.50	
				<u>90.00</u>	
Contractor's profit & overhead		20%		18.00	
Total Labour rate				<u>108.00</u>	108
xii) 22" (550 mm) dia					
1. Labour					
Pipe layer	0.50 Hrs @	125.00		62.50	
Labourer	1.00 Hrs @	87.50		87.50	
				<u>150.00</u>	
Contractor's profit & overhead		20%		30.00	
Total Labour rate				<u>180.00</u>	180
xiii) 24" (600 mm) dia					
1. Labour					
Pipe layer	0.50 Hrs @	125.00		62.50	
Labourer	1.00 Hrs @	87.50		87.50	
				<u>150.00</u>	
Contractor's profit & overhead		20%		30.00	
Total Labour rate				<u>180.00</u>	180
b) Class C					
i) 3" (75 mm) dia					
1. Labour					
Pipe layer	0.10 Hrs @	125.00		12.50	
Labourer	0.20 Hrs @	87.50		17.50	
				<u>30.00</u>	
Contractor's profit & overhead		20%		6.00	
Total Labour rate				<u>36.00</u>	36
ii) 4" (100 mm) dia					
1. Labour					
Pipe layer	0.10 Hrs @	125.00		12.50	
Labourer	0.20 Hrs @	87.50		17.50	
				<u>30.00</u>	
Contractor's profit & overhead		20%		6.00	
Total Labour rate				<u>36.00</u>	36
iii) 5" (125 mm) dia					
1. Labour					
Pipe layer	0.15 Hrs @	125.00		18.75	
Labourer	0.30 Hrs @	87.50		26.25	
				<u>45.00</u>	
Contractor's profit & overhead		20%		9.00	
Total Labour rate				<u>54.00</u>	54
iv) 6" (150 mm) dia					
1. Labour					
Pipe layer	0.15 Hrs @	125.00		18.75	
Labourer	0.30 Hrs @	87.50		26.25	
				<u>45.00</u>	
Contractor's profit & overhead		20%		9.00	
Total Labour rate				<u>54.00</u>	54
v) 8" (200 mm) dia					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Pipe layer	0.15	Hrs @ 125.00		18.75
	Labourer	0.30	Hrs @ 87.50		26.25
					<u>45.00</u>
	Contractor's profit & overhead		20%		9.00
	Total Labour rate				<u>54.00</u> 54
vi)	10" (250 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @ 125.00		25.00
	Labourer	0.40	Hrs @ 87.50		35.00
					<u>60.00</u>
	Contractor's profit & overhead		20%		12.00
	Total Labour rate				<u>72.00</u> 72
vii)	12" (300 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @ 125.00		25.00
	Labourer	0.40	Hrs @ 87.50		35.00
					<u>60.00</u>
	Contractor's profit & overhead		20%		12.00
	Total Labour rate				<u>72.00</u> 72
viii)	14" (350 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @ 125.00		25.00
	Labourer	0.40	Hrs @ 87.50		35.00
					<u>60.00</u>
	Contractor's profit & overhead		20%		12.00
	Total Labour rate				<u>72.00</u> 72
ix)	16" (400 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @ 125.00		37.50
	Labourer	0.60	Hrs @ 87.50		52.50
					<u>90.00</u>
	Contractor's profit & overhead		20%		18.00
	Total Labour rate				<u>108.00</u> 108
x)	18" (450 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @ 125.00		37.50
	Labourer	0.60	Hrs @ 87.50		52.50
					<u>90.00</u>
	Contractor's profit & overhead		20%		18.00
	Total Labour rate				<u>108.00</u> 108
xi)	20" (500 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @ 125.00		37.50
	Labourer	0.60	Hrs @ 87.50		52.50
					<u>90.00</u>
	Contractor's profit & overhead		20%		18.00
	Total Labour rate				<u>108.00</u> 108
xii)	22" (550 mm) dia				
	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead			20%	30.00
	Total Labour rate				180.00
					180
xiii)	24" (600 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead			20%	30.00
	Total Labour rate				180.00
					180
c)	Class D				
i)	3" (75 mm) dia				
	1. Labour				
	Pipe layer	0.10	Hrs @	125.00	12.50
	Labourer	0.20	Hrs @	87.50	17.50
					30.00
	Contractor's profit & overhead			20%	6.00
	Total Labour rate				36.00
					36
ii)	4" (100 mm) dia				
	1. Labour				
	Pipe layer	0.10	Hrs @	125.00	12.50
	Labourer	0.20	Hrs @	87.50	17.50
					30.00
	Contractor's profit & overhead			20%	6.00
	Total Labour rate				36.00
					36
iii)	5" (125 mm) dia				
	1. Labour				
	Pipe layer	0.15	Hrs @	125.00	18.75
	Labourer	0.30	Hrs @	87.50	26.25
					45.00
	Contractor's profit & overhead			20%	9.00
	Total Labour rate				54.00
					54
iv)	6" (150 mm) dia				
	1. Labour				
	Pipe layer	0.15	Hrs @	125.00	18.75
	Labourer	0.30	Hrs @	87.50	26.25
					45.00
	Contractor's profit & overhead			20%	9.00
	Total Labour rate				54.00
					54
v)	8" (200 mm) dia				
	1. Labour				
	Pipe layer	0.15	Hrs @	125.00	18.75
	Labourer	0.30	Hrs @	87.50	26.25
					45.00
	Contractor's profit & overhead			20%	9.00
	Total Labour rate				54.00
					54
vi)	10" (250 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @	125.00	25.00
	Labourer	0.40	Hrs @	87.50	35.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		20%	60.00	
	Total Labour rate			12.00	
				72.00	72
vii)	12" (300 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @	125.00	25.00
	Labourer	0.40	Hrs @	87.50	35.00
					60.00
	Contractor's profit & overhead		20%	12.00	
	Total Labour rate			72.00	72
viii)	14" (350 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @	125.00	25.00
	Labourer	0.40	Hrs @	87.50	35.00
					60.00
	Contractor's profit & overhead		20%	12.00	
	Total Labour rate			72.00	72
ix)	16" (400 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @	125.00	37.50
	Labourer	0.60	Hrs @	87.50	52.50
					90.00
	Contractor's profit & overhead		20%	18.00	
	Total Labour rate			108.00	108
x)	18" (450 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @	125.00	37.50
	Labourer	0.60	Hrs @	87.50	52.50
					90.00
	Contractor's profit & overhead		20%	18.00	
	Total Labour rate			108.00	108
xi)	20" (500 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @	125.00	37.50
	Labourer	0.60	Hrs @	87.50	52.50
					90.00
	Contractor's profit & overhead		20%	18.00	
	Total Labour rate			108.00	108
xii)	22" (550 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead		20%	30.00	
	Total Labour rate			180.00	180
xiii)	24" (600 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead		20%	30.00	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		180.00		180
D) Class E					
i) 3" (75 mm) dia					
1. Labour					
Pipe layer	0.10 Hrs @	125.00		12.50	
Labourer	0.20 Hrs @	87.50		17.50	
				<u>30.00</u>	
Contractor's profit & overhead		20%		6.00	
Total Labour rate				<u>36.00</u>	36
ii) 4" (100 mm) dia					
1. Labour					
Pipe layer	0.10 Hrs @	125.00		12.50	
Labourer	0.20 Hrs @	87.50		17.50	
				<u>30.00</u>	
Contractor's profit & overhead		20%		6.00	
Total Labour rate				<u>36.00</u>	36
iii) 5" (125 mm) dia					
1. Labour					
Pipe layer	0.15 Hrs @	125.00		18.75	
Labourer	0.30 Hrs @	87.50		26.25	
				<u>45.00</u>	
Contractor's profit & overhead		20%		9.00	
Total Labour rate				<u>54.00</u>	54
iv) 6" (150 mm) dia					
1. Labour					
Pipe layer	0.15 Hrs @	125.00		18.75	
Labourer	0.30 Hrs @	87.50		26.25	
				<u>45.00</u>	
Contractor's profit & overhead		20%		9.00	
Total Labour rate				<u>54.00</u>	54
v) 8" (200 mm) dia					
1. Labour					
Pipe layer	0.15 Hrs @	125.00		18.75	
Labourer	0.30 Hrs @	87.50		26.25	
				<u>45.00</u>	
Contractor's profit & overhead		20%		9.00	
Total Labour rate				<u>54.00</u>	54
vi) 10" (250 mm) dia					
1. Labour					
Pipe layer	0.20 Hrs @	125.00		25.00	
Labourer	0.40 Hrs @	87.50		35.00	
				<u>60.00</u>	
Contractor's profit & overhead		20%		12.00	
Total Labour rate				<u>72.00</u>	72
vii) 12" (300 mm) dia					
1. Labour					
Pipe layer	0.20 Hrs @	125.00		25.00	
Labourer	0.40 Hrs @	87.50		35.00	
				<u>60.00</u>	
Contractor's profit & overhead		20%		12.00	
Total Labour rate				<u>72.00</u>	72

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
viii)	14" (350 mm) dia				
	1. Labour				
	Pipe layer	0.20	Hrs @	125.00	25.00
	Labourer	0.40	Hrs @	87.50	35.00
					60.00
	Contractor's profit & overhead		20%		12.00
	Total Labour rate				72.00
					72
ix)	16" (400 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @	125.00	37.50
	Labourer	0.60	Hrs @	87.50	52.50
					90.00
	Contractor's profit & overhead		20%		18.00
	Total Labour rate				108.00
					108
x)	18" (450 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @	125.00	37.50
	Labourer	0.60	Hrs @	87.50	52.50
					90.00
	Contractor's profit & overhead		20%		18.00
	Total Labour rate				108.00
					108
xi)	20" (500 mm) dia				
	1. Labour				
	Pipe layer	0.30	Hrs @	125.00	37.50
	Labourer	0.60	Hrs @	87.50	52.50
					90.00
	Contractor's profit & overhead		20%		18.00
	Total Labour rate				108.00
					108
xii)	22" (550 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead		20%		30.00
	Total Labour rate				180.00
					180
xiii)	24" (600 mm) dia				
	1. Labour				
	Pipe layer	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead		20%		30.00
	Total Labour rate				180.00
					180
	Item No. 27- 50				
	Supply of HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-16 with specials and valves etc.				
a)	HDPE Pipes density 700-960 kg/cu.m (15mm)				
	2. Material				
	HDPE Pipes density 700-960 kg/cu.m (15mm)	1.00	R.M @	38.00	38.00
	Fittings and Special		30%		11.40

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
				49.40	
				49.40	49
b)	HDPE Pipes density 700-960 kg/cu.m (20mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (20mm)	1.00	R.M @	42.24	42.24
	Fittings and Special			30%	12.67
					54.91
				54.91	55
c)	HDPE Pipes density 700-960 kg/cu.m (25mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (25mm)	1.00	R.M @	62.08	62.08
	Fittings and Special			30%	18.62
					80.70
				80.70	81
d)	HDPE Pipes density 700-960 kg/cu.m (32mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (32mm)	1.00	R.M @	103.58	103.58
	Fittings and Special			30%	31.07
					134.65
				134.65	135
e)	HDPE Pipes density 700-960 kg/cu.m (40mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (40mm)	1.00	R.M @	156.00	156.00
	Fittings and Special			30%	46.80
					202.80
				202.80	203
f)	HDPE Pipes density 700-960 kg/cu.m (45mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (45mm)	1.00	R.M @	175.00	175.00
	Fittings and Special			30%	52.50
					227.50
				227.50	228
g)	HDPE Pipes density 700-960 kg/cu.m (50mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (50mm)	1.00	R.M @	241.61	241.61
	Fittings and Special			30%	72.48
					314.09
				314.09	314
h)	HDPE Pipes density 700-960 kg/cu.m (63mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (63mm)	1.00	R.M @	381.53	381.53
	Fittings and Special			30%	114.46
					495.99

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			495.99		496
i)	HDPE Pipes density 700-960 kg/cu.m (75mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (75mm)	1.00	R.M @ 532.20	532.20	
	Fittings and Special		30%	159.66	
				<u>691.86</u>	
				691.86	692
j)	HDPE Pipes density 700-960 kg/cu.m (90mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (90mm)	1.00	R.M @ 770.53	770.53	
	Fittings and Special		30%	231.16	
				<u>1,001.69</u>	
				1,001.69	1,002
k)	HDPE Pipes density 700-960 kg/cu.m (110mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (110mm)	1.00	R.M @ 1139.69	1,139.69	
	Fittings and Special		30%	341.91	
				<u>1,481.60</u>	
				1,481.60	1,482
l)	HDPE Pipes density 700-960 kg/cu.m (125mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (125mm)	1.00	R.M @ 1476.84	1,476.84	
	Fittings and Special		30%	443.05	
				<u>1,919.89</u>	
				1,919.89	1,920
m)	HDPE Pipes density 700-960 kg/cu.m (140mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (140mm)	1.00	R.M @ 1950.00	1,950.00	
	Fittings and Special		30%	585.00	
				<u>2,535.00</u>	
				2,535.00	2,535
n)	HDPE Pipes density 700-960 kg/cu.m (160mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (160mm)	1.00	R.M @ 2411.17	2,411.17	
	Fittings and Special		30%	723.35	
				<u>3,134.52</u>	
				3,134.52	3,135
o)	HDPE Pipes density 700-960 kg/cu.m (180mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (180mm)	1.00	R.M @ 3047.03	3,047.03	
	Fittings and Special		30%	914.11	
				<u>3,961.14</u>	
				3,961.14	3,961
p)	HDPE Pipes density 700-960 kg/cu.m (200mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (200mm)	1.00	R.M @ 3760.16	3,760.16	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Fittings and Special		30%	1,128.05	
				4,888.21	
				4,888.21	4,888
q)	HDPE Pipes density 700-960 kg/cu.m (225mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (225mm)	1.00	R.M @	5210.64	5,210.64
	Fittings and Special			30%	1,563.19
					6,773.83
				6,773.83	6,774
r)	HDPE Pipes density 700-960 kg/cu.m (250mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (250mm)	1.00	R.M @	5940.35	5,940.35
	Fittings and Special			30%	1,782.11
					7,722.46
				7,722.46	7,722
s)	HDPE Pipes density 700-960 kg/cu.m (280mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (280mm)	1.00	R.M @	9950.49	9,950.49
	Fittings and Special			30%	2,985.15
					12,935.64
				12,935.64	12,936
t)	HDPE Pipes density 700-960 kg/cu.m (315mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (315mm)	1.00	R.M @	12825.20	12,825.20
	Fittings and Special			30%	3,847.56
					16,672.76
				16,672.76	16,673
u)	HDPE Pipes density 700-960 kg/cu.m (355mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (355mm)	1.00	R.M @	15597.45	15,597.45
	Fittings and Special			30%	4,679.24
					20,276.69
				20,276.69	20,277
v)	HDPE Pipes density 700-960 kg/cu.m (400mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (400mm)	1.00	R.M @	19983.75	19,983.75
	Fittings and Special			30%	5,995.12
					25,978.87
				25,978.87	25,979
w)	HDPE Pipes density 700-960 kg/cu.m (450 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (450 mm)	1.00	R.M @	24466.37	24,466.37
	Fittings and Special			30%	7,339.91

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
					31,806.28
					31,806.28
					31,806
x)	HDPE Pipes density 700-960 kg/cu.m (500 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (500 mm)	1.00	R.M @	29248.07	29,248.07
	Fittings and Special			30%	8,774.42
					38,022.49
					38,022.49
					38,023
y)	HDPE Pipes density 700-960 kg/cu.m (560 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (560 mm)	1.00	R.M @	40725.28	40,725.28
	Fittings and Special			30%	12,217.58
					52,942.86
					52,942.86
					52,943
z)	HDPE Pipes density 700-960 kg/cu.m (630 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (630 mm)	1.00	R.M @	48558.16	48,558.16
	Fittings and Special			30%	14,567.45
					63,125.61
					63,125.61
					63,126
za)	HDPE Pipes density 700-960 kg/cu.m (800 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (800 mm)	1.00	R.M @	60525.00	60,525.00
	Fittings and Special			30%	18,157.50
					78,682.50
					78,682.50
					78,683

Unit	Description	Component Cost	Unit	Rate
		(Rs)		(Rs)

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laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-16, complete in all respects.

a)	1. Labour						
	Labourer	0.10	Hrs	@	87.50	8.75	
	Pipe Fitter	0.10	Hrs	@	125.00	12.50	
						21.25	
	Contractor's profit & overhead				20%	4.25	
						25.50	26
b)	1. Labour						
	Labourer	0.10	Hrs	@	87.50	8.75	
	Pipe Fitter	0.10	Hrs	@	125.00	12.50	
						21.25	
	Contractor's profit & overhead				20%	4.25	
						25.50	26
c)	1. Labour						
	Labourer	0.25	Hrs	@	87.50	21.88	
	Pipe Fitter	0.25	Hrs	@	125.00	31.25	
						53.13	
	Contractor's profit & overhead				20%	10.63	
						63.75	64
d)	1. Labour						
	Labourer	0.25	Hrs	@	87.50	21.88	
	Pipe Fitter	0.25	Hrs	@	125.00	31.25	
						53.13	
	Contractor's profit & overhead				20%	10.63	
						63.75	64
e)	1. Labour						
	Labourer	0.25	Hrs	@	87.50	21.88	
	Pipe Fitter	0.25	Hrs	@	125.00	31.25	
						53.13	
	Contractor's profit & overhead				20%	10.63	
						63.75	64
f)	1. Labour						
	Labourer	0.25	Hrs	@	87.50	21.88	
	Pipe Fitter	0.25	Hrs	@	125.00	31.25	
						53.13	
	Contractor's profit & overhead				20%	10.63	
						63.75	64
g)	1. Labour						
	Labourer	0.25	Hrs	@	87.50	21.88	
	Pipe Fitter	0.25	Hrs	@	125.00	31.25	
						53.13	
	Contractor's profit & overhead				20%	10.63	
						63.75	64
h)	1. Labour						
	Labourer	0.50	Hrs	@	87.50	43.75	
	Pipe Fitter	0.50	Hrs	@	125.00	62.50	
						106.25	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead		20%	21.25	
				127.50	128
i)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
				106.25	
	Contractor's profit & overhead		20%	21.25	
				127.50	128
j)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
				106.25	
	Contractor's profit & overhead		20%	21.25	
				127.50	128
k)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
				106.25	
	Contractor's profit & overhead		20%	21.25	
				127.50	128
l)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
				106.25	
	Contractor's profit & overhead		20%	21.25	
				127.50	128
m)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
				127.50	
	Contractor's profit & overhead		20%	25.50	
				153.00	153
n)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
				127.50	
	Contractor's profit & overhead		20%	25.50	
				153.00	153
o)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
				127.50	
	Contractor's profit & overhead		20%	25.50	
				153.00	153
p)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
				159.38	
	Contractor's profit & overhead		20%	31.88	
				191.25	191

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
q)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead		20%		31.88
					<u>191.25</u>
					191
r)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead		20%		31.88
					<u>191.25</u>
					191
s)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
					<u>255.00</u>
					255
t)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
					<u>255.00</u>
					255
u)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
					<u>255.00</u>
					255
v)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	156.25
					265.63
	Contractor's profit & overhead		20%		53.13
					<u>318.75</u>
					319
w)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	156.25
					265.63
	Contractor's profit & overhead		20%		53.13
					<u>318.75</u>
					319
x)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	156.25
					265.63
	Contractor's profit & overhead		20%		53.13
					<u>318.75</u>
					319
y)	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	187.50
					318.75
	Contractor's profit & overhead			20%	63.75
					382.50
					383
z)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	187.50
					318.75
	Contractor's profit & overhead			20%	63.75
					382.50
					383
za)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	187.50
					318.75
	Contractor's profit & overhead			20%	63.75
					382.50
					383

Item No. 27- 52

Supply of HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-10 with specials and valves etc.

a)	HDPE Pipes density 700-960 kg/cu.m (20mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (20mm)	1.00	R.M @	40.23	40.23
	Fittings and Special			30%	12.07
					52.30
					52.30
					52
b)	HDPE Pipes density 700-960 kg/cu.m (25mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (25mm)	1.00	R.M @	51.86	51.86
	Fittings and Special			30%	15.56
					67.42
					67.42
					67
c)	HDPE Pipes density 700-960 kg/cu.m (32mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (32mm)	1.00	R.M @	83.76	83.76
	Fittings and Special			30%	25.13
					108.89
					108.89
					109
d)	HDPE Pipes density 700-960 kg/cu.m (40mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (40mm)	1.00	R.M @	128.64	128.64
	Fittings and Special			30%	38.59
					167.23
					167.23
					167

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
f)	HDPE Pipes density 700-960 kg/cu.m (50mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (50mm)	1.00	R.M @	198.24	198.24
	Fittings and Special			30%	59.47
					<u>257.71</u>
					<u>257.71</u> 258
g)	HDPE Pipes density 700-960 kg/cu.m (63mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (63mm)	1.00	R.M @	315.26	315.26
	Fittings and Special			30%	94.58
					<u>409.84</u>
					<u>409.84</u> 410
h)	HDPE Pipes density 700-960 kg/cu.m (75mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (75mm)	1.00	R.M @	445.60	445.60
	Fittings and Special			30%	133.68
					<u>579.28</u>
					<u>579.28</u> 579
i)	HDPE Pipes density 700-960 kg/cu.m (90mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (90mm)	1.00	R.M @	638.53	638.53
	Fittings and Special			30%	191.56
					<u>830.09</u>
					<u>830.09</u> 830
j)	HDPE Pipes density 700-960 kg/cu.m (110mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (110mm)	1.00	R.M @	944.95	944.95
	Fittings and Special			30%	283.49
					<u>1,228.44</u>
					<u>1,228.44</u> 1,228
k)	HDPE Pipes density 700-960 kg/cu.m (125mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (125mm)	1.00	R.M @	1215.40	1,215.40
	Fittings and Special			30%	364.62
					<u>1,580.02</u>
					<u>1,580.02</u> 1,580
l)	HDPE Pipes density 700-960 kg/cu.m (140mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (140mm)	1.00	R.M @	1650.00	1,650.00
	Fittings and Special			30%	495.00
					<u>2,145.00</u>
					<u>2,145.00</u> 2,145
m)	HDPE Pipes density 700-960 kg/cu.m (160mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (160mm)	1.00	R.M @	2002.36	2,002.36
	Fittings and Special			30%	600.71
					<u>2,603.07</u>

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
				2,603.07	2,603
n)	HDPE Pipes density 700-960 kg/cu.m (180mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (180mm)	1.00	R.M @	2545.84	2,545.84
	Fittings and Special			30%	763.75
					<u>3,309.59</u>
				3,309.59	3,310
o)	HDPE Pipes density 700-960 kg/cu.m (200mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (200mm)	1.00	R.M @	3135.50	3,135.50
	Fittings and Special			30%	940.65
					<u>4,076.15</u>
				4,076.15	4,076
p)	HDPE Pipes density 700-960 kg/cu.m (225mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (225mm)	1.00	R.M @	4320.25	4,320.25
	Fittings and Special			30%	1,296.08
					<u>5,616.33</u>
				5,616.33	5,616
q)	HDPE Pipes density 700-960 kg/cu.m (250mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (250mm)	1.00	R.M @	4882.48	4,882.48
	Fittings and Special			30%	1,464.74
					<u>6,347.22</u>
				6,347.22	6,347
r)	HDPE Pipes density 700-960 kg/cu.m (280mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (280mm)	1.00	R.M @	7946.73	7,946.73
	Fittings and Special			30%	2,384.02
					<u>10,330.75</u>
				10,330.75	10,331
s)	HDPE Pipes density 700-960 kg/cu.m (315mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (315mm)	1.00	R.M @	10718.98	10,718.98
	Fittings and Special			30%	3,215.69
					<u>13,934.67</u>
				13,934.67	13,935
t)	HDPE Pipes density 700-960 kg/cu.m (355mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (355mm)	1.00	R.M @	12523.50	12,523.50
	Fittings and Special			30%	3,757.05
					<u>16,280.55</u>
				16,280.55	16,281

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
u)	HDPE Pipes density 700-960 kg/cu.m (400mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (400mm)	1.00	R.M @	16553.79	16,553.79
	Fittings and Special			30%	4,966.14
					<u>21,519.93</u>
					<u>21,519.93</u>
					21,520
v)	HDPE Pipes density 700-960 kg/cu.m (450 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (450 mm)	1.00	R.M @	20948.40	20,948.40
	Fittings and Special			30%	6,284.52
					<u>27,232.92</u>
					<u>27,232.92</u>
					27,233
w)	HDPE Pipes density 700-960 kg/cu.m (500 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (500 mm)	1.00	R.M @	25607.14	25,607.14
	Fittings and Special			30%	7,682.14
					<u>33,289.28</u>
					<u>33,289.28</u>
					33,289
x)	HDPE Pipes density 700-960 kg/cu.m (560 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (560 mm)	1.00	R.M @	32322.20	32,322.20
	Fittings and Special			30%	9,696.66
					<u>42,018.86</u>
					<u>42,018.86</u>
					42,019
y)	HDPE Pipes density 700-960 kg/cu.m (630 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (630 mm)	1.00	R.M @	40746.00	40,746.00
	Fittings and Special			30%	12,223.80
					<u>52,969.80</u>
					<u>52,969.80</u>
					52,970
z)	HDPE Pipes density 700-960 kg/cu.m (800 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (800 mm)	1.00	R.M @	51500.00	51,500.00
	Fittings and Special			30%	15,450.00
					<u>66,950.00</u>
					<u>66,950.00</u>
					66,950

Item No. 27- 53

laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-10, complete in all respects.

a)	1. Labour				
	Labourer	0.10	Hrs @	87.50	8.75
	Pipe Fitter	0.10	Hrs @	125.00	12.50
					<u>21.25</u>
	Contractor's profit & overhead			20%	4.25
					<u>25.50</u>
					26

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
b)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead		20%		10.63
					<u>63.75</u>
					64
c)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead		20%		10.63
					<u>63.75</u>
					64
d)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead		20%		10.63
					<u>63.75</u>
					64
e)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead		20%		10.63
					<u>63.75</u>
					64
f)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead		20%		10.63
					<u>63.75</u>
					64
g)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					<u>106.25</u>
	Contractor's profit & overhead		20%		21.25
					<u>127.50</u>
					128
h)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					<u>106.25</u>
	Contractor's profit & overhead		20%		21.25
					<u>127.50</u>
					128
i)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					<u>106.25</u>
	Contractor's profit & overhead		20%		21.25
					<u>127.50</u>
					128
j)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					<u>62.50</u>

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	106.25		
			21.25		
			<u>127.50</u>		128
k)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead	20%			21.25
					<u>127.50</u>
					128
l)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead	20%			25.50
					<u>153.00</u>
					153
m)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead	20%			25.50
					<u>153.00</u>
					153
n)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead	20%			25.50
					<u>153.00</u>
					153
o)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead	20%			31.88
					<u>191.25</u>
					191
p)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead	20%			31.88
					<u>191.25</u>
					191
q)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead	20%			31.88
					<u>191.25</u>
					191
r)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	42.50		
			<u>255.00</u>		255
s)					
	1. Labour				
	Labourer	1.00	Hrs @ 87.50	87.50	
	Pipe Fitter	1.00	Hrs @ 125.00	125.00	
				<u>212.50</u>	
	Contractor's profit & overhead	20%	42.50		
			<u>255.00</u>		255
t)					
	1. Labour				
	Labourer	1.00	Hrs @ 87.50	87.50	
	Pipe Fitter	1.00	Hrs @ 125.00	125.00	
				<u>212.50</u>	
	Contractor's profit & overhead	20%	42.50		
			<u>255.00</u>		255
u)					
	1. Labour				
	Labourer	1.25	Hrs @ 87.50	109.38	
	Pipe Fitter	1.25	Hrs @ 125.00	156.25	
				<u>265.63</u>	
	Contractor's profit & overhead	20%	53.13		
			<u>318.75</u>		319
v)					
	1. Labour				
	Labourer	1.25	Hrs @ 87.50	109.38	
	Pipe Fitter	1.25	Hrs @ 125.00	156.25	
				<u>265.63</u>	
	Contractor's profit & overhead	20%	53.13		
			<u>318.75</u>		319
w)					
	1. Labour				
	Labourer	1.25	Hrs @ 87.50	109.38	
	Pipe Fitter	1.25	Hrs @ 125.00	156.25	
				<u>265.63</u>	
	Contractor's profit & overhead	20%	53.13		
			<u>318.75</u>		319
x)					
	1. Labour				
	Labourer	1.50	Hrs @ 87.50	131.25	
	Pipe Fitter	1.50	Hrs @ 125.00	187.50	
				<u>318.75</u>	
	Contractor's profit & overhead	20%	63.75		
			<u>382.50</u>		383
y)					
	1. Labour				
	Labourer	1.50	Hrs @ 87.50	131.25	
	Pipe Fitter	1.50	Hrs @ 125.00	187.50	
				<u>318.75</u>	
	Contractor's profit & overhead	20%	63.75		
			<u>382.50</u>		383
z)					
	1. Labour				
	Labourer	1.50	Hrs @ 87.50	131.25	
	Pipe Fitter	1.50	Hrs @ 125.00	187.50	
				<u>318.75</u>	
	Contractor's profit & overhead	20%	63.75		
			<u>382.50</u>		383

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 27- 54					
Supply of HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-12 with specials and valves etc.					
a)	HDPE Pipes density 700-960 kg/cu.m (20mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (20mm)	1.00	R.M @	40.23	40.23
	Fittings and Special			30%	12.07
					52.30
					52.30
					52
b)	HDPE Pipes density 700-960 kg/cu.m (25mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (25mm)	1.00	R.M @	51.86	51.86
	Fittings and Special			30%	15.56
					67.42
					67.42
					67
c)	HDPE Pipes density 700-960 kg/cu.m (32mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (32mm)	1.00	R.M @	83.76	83.76
	Fittings and Special			30%	25.13
					108.89
					108.89
					109
d)	HDPE Pipes density 700-960 kg/cu.m (40mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (40mm)	1.00	R.M @	128.64	128.64
	Fittings and Special			30%	38.59
					167.23
					167.23
					167
f)	HDPE Pipes density 700-960 kg/cu.m (50mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (50mm)	1.00	R.M @	198.24	198.24
	Fittings and Special			30%	59.47
					257.71
					257.71
					258
g)	HDPE Pipes density 700-960 kg/cu.m (63mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (63mm)	1.00	R.M @	315.26	315.26
	Fittings and Special			30%	94.58
					409.84
					409.84
					410
h)	HDPE Pipes density 700-960 kg/cu.m (75mm)				

Unit	Description			Component Cost	Unit	Rate
				(Rs)	(Rs)	
	2.Material HDPE Pipes density 700-960 kg/cu.m (75mm) Fittings and Special	1.00	R.M @	445.60 30%		445.60 133.68 <u>579.28</u>
						<u>579.28</u> 579
i)	HDPE Pipes density 700-960 kg/cu.m (90mm)					
	2.Material HDPE Pipes density 700-960 kg/cu.m (90mm) Fittings and Special	1.00	R.M @	638.53 30%		638.53 191.56 <u>830.09</u>
						<u>830.09</u> 830
j)	HDPE Pipes density 700-960 kg/cu.m (110mm)					
	2.Material HDPE Pipes density 700-960 kg/cu.m (110mm) Fittings and Special	1.00	R.M @	944.95 30%		944.95 283.49 <u>1,228.44</u>
						<u>1,228.44</u> 1,228
k)	HDPE Pipes density 700-960 kg/cu.m (125mm)					
	2.Material HDPE Pipes density 700-960 kg/cu.m (125mm) Fittings and Special	1.00	R.M @	1215.40 30%		1,215.40 364.62 <u>1,580.02</u>
						<u>1,580.02</u> 1,580
l)	HDPE Pipes density 700-960 kg/cu.m (140mm)					
	2.Material HDPE Pipes density 700-960 kg/cu.m (140mm) Fittings and Special	1.00	R.M @	1650.00 30%		1,650.00 495.00 <u>2,145.00</u>
						<u>2,145.00</u> 2,145
m)	HDPE Pipes density 700-960 kg/cu.m (160mm)					
	2.Material HDPE Pipes density 700-960 kg/cu.m (160mm) Fittings and Special	1.00	R.M @	2002.36 30%		2,002.36 600.71 <u>2,603.07</u>
						<u>2,603.07</u> 2,603
n)	HDPE Pipes density 700-960 kg/cu.m (180mm)					
	2.Material HDPE Pipes density 700-960 kg/cu.m (180mm) Fittings and Special	1.00	R.M @	2545.84 30%		2,545.84 763.75 <u>3,309.59</u>
						<u>3,309.59</u> 3,310
o)	HDPE Pipes density 700-960 kg/cu.m (200mm)					
	2.Material HDPE Pipes density 700-960 kg/cu.m (200mm) Fittings and Special	1.00	R.M @	3135.50 30%		3,135.50 940.65 <u>4,076.15</u>
						<u>4,076.15</u> 4,076

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
p)	HDPE Pipes density 700-960 kg/cu.m (225mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (225mm)	1.00	R.M @	4320.25	4,320.25
	Fittings and Special			30%	1,296.08
					<u>5,616.33</u>
					5,616.33
					5,616
q)	HDPE Pipes density 700-960 kg/cu.m (250mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (250mm)	1.00	R.M @	4882.48	4,882.48
	Fittings and Special			30%	1,464.74
					<u>6,347.22</u>
					6,347.22
					6,347
r)	HDPE Pipes density 700-960 kg/cu.m (280mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (280mm)	1.00	R.M @	7946.73	7,946.73
	Fittings and Special			30%	2,384.02
					<u>10,330.75</u>
					10,330.75
					10,331
s)	HDPE Pipes density 700-960 kg/cu.m (315mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (315mm)	1.00	R.M @	10718.98	10,718.98
	Fittings and Special			30%	3,215.69
					<u>13,934.67</u>
					13,934.67
					13,935
t)	HDPE Pipes density 700-960 kg/cu.m (355mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (355mm)	1.00	R.M @	12523.50	12,523.50
	Fittings and Special			30%	3,757.05
					<u>16,280.55</u>
					16,280.55
					16,281
u)	HDPE Pipes density 700-960 kg/cu.m (400mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (400mm)	1.00	R.M @	16553.79	16,553.79
	Fittings and Special			30%	4,966.14
					<u>21,519.93</u>
					21,519.93
					21,520
v)	HDPE Pipes density 700-960 kg/cu.m (450 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (450 mm)	1.00	R.M @	20948.40	20,948.40
	Fittings and Special			30%	6,284.52
					<u>27,232.92</u>
					27,232.92
					27,233

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
w)	HDPE Pipes density 700-960 kg/cu.m (500 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (500 mm)	1.00	R.M @	25607.14	25,607.14
	Fittings and Special			30%	7,682.14
					<u>33,289.28</u>
					33,289.28
x)	HDPE Pipes density 700-960 kg/cu.m (560 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (560 mm)	1.00	R.M @	32322.20	32,322.20
	Fittings and Special			30%	9,696.66
					<u>42,018.86</u>
					42,018.86
y)	HDPE Pipes density 700-960 kg/cu.m (630 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (630 mm)	1.00	R.M @	40746.00	40,746.00
	Fittings and Special			30%	12,223.80
					<u>52,969.80</u>
					52,969.80
z)	HDPE Pipes density 700-960 kg/cu.m (800 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (800 mm)	1.00	R.M @	51500.00	51,500.00
	Fittings and Special			30%	15,450.00
					<u>66,950.00</u>
					66,950.00

Item No. 27- 55

laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-12, complete in all respects.

a)	1. Labour				
	Labourer	0.10	Hrs @	87.50	8.75
	Pipe Fitter	0.10	Hrs @	125.00	12.50
					<u>21.25</u>
	Contractor's profit & overhead			20%	4.25
					<u>25.50</u>
					26
b)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
c)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
d)	1. Labour				

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Labourer	0.25	Hrs	@	87.50	21.88
	Pipe Fitter	0.25	Hrs	@	125.00	31.25
						53.13
	Contractor's profit & overhead				20%	10.63
						63.75
						64
e)	1. Labour					
	Labourer	0.25	Hrs	@	87.50	21.88
	Pipe Fitter	0.25	Hrs	@	125.00	31.25
						53.13
	Contractor's profit & overhead				20%	10.63
						63.75
						64
f)	1. Labour					
	Labourer	0.25	Hrs	@	87.50	21.88
	Pipe Fitter	0.25	Hrs	@	125.00	31.25
						53.13
	Contractor's profit & overhead				20%	10.63
						63.75
						64
g)	1. Labour					
	Labourer	0.50	Hrs	@	87.50	43.75
	Pipe Fitter	0.50	Hrs	@	125.00	62.50
						106.25
	Contractor's profit & overhead				20%	21.25
						127.50
						128
h)	1. Labour					
	Labourer	0.50	Hrs	@	87.50	43.75
	Pipe Fitter	0.50	Hrs	@	125.00	62.50
						106.25
	Contractor's profit & overhead				20%	21.25
						127.50
						128
i)	1. Labour					
	Labourer	0.50	Hrs	@	87.50	43.75
	Pipe Fitter	0.50	Hrs	@	125.00	62.50
						106.25
	Contractor's profit & overhead				20%	21.25
						127.50
						128
j)	1. Labour					
	Labourer	0.50	Hrs	@	87.50	43.75
	Pipe Fitter	0.50	Hrs	@	125.00	62.50
						106.25
	Contractor's profit & overhead				20%	21.25
						127.50
						128
k)	1. Labour					
	Labourer	0.50	Hrs	@	87.50	43.75
	Pipe Fitter	0.50	Hrs	@	125.00	62.50
						106.25
	Contractor's profit & overhead				20%	21.25
						127.50
						128
l)	1. Labour					
	Labourer	0.60	Hrs	@	87.50	52.50
	Pipe Fitter	0.60	Hrs	@	125.00	75.00
						127.50
	Contractor's profit & overhead				20%	25.50
						153.00
						153

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
m)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead		20%		25.50
					<u>153.00</u>
					153
n)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead		20%		25.50
					<u>153.00</u>
					153
o)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead		20%		31.88
					<u>191.25</u>
					191
p)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead		20%		31.88
					<u>191.25</u>
					191
q)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead		20%		31.88
					<u>191.25</u>
					191
r)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
					<u>255.00</u>
					255
s)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
					<u>255.00</u>
					255
t)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
					<u>255.00</u>
					255

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
u)	1. Labour					
	Labourer	1.25	Hrs	@ 87.50	109.38	
	Pipe Fitter	1.25	Hrs	@ 125.00	156.25	
					265.63	
	Contractor's profit & overhead			20%	53.13	
					318.75	319
v)	1. Labour					
	Labourer	1.25	Hrs	@ 87.50	109.38	
	Pipe Fitter	1.25	Hrs	@ 125.00	156.25	
					265.63	
	Contractor's profit & overhead			20%	53.13	
					318.75	319
w)	1. Labour					
	Labourer	1.25	Hrs	@ 87.50	109.38	
	Pipe Fitter	1.25	Hrs	@ 125.00	156.25	
					265.63	
	Contractor's profit & overhead			20%	53.13	
					318.75	319
x)	1. Labour					
	Labourer	1.50	Hrs	@ 87.50	131.25	
	Pipe Fitter	1.50	Hrs	@ 125.00	187.50	
					318.75	
	Contractor's profit & overhead			20%	63.75	
					382.50	383
y)	1. Labour					
	Labourer	1.50	Hrs	@ 87.50	131.25	
	Pipe Fitter	1.50	Hrs	@ 125.00	187.50	
					318.75	
	Contractor's profit & overhead			20%	63.75	
					382.50	383
z)	1. Labour					
	Labourer	1.50	Hrs	@ 87.50	131.25	
	Pipe Fitter	1.50	Hrs	@ 125.00	187.50	
					318.75	
	Contractor's profit & overhead			20%	63.75	
					382.50	383
Item No. 27- 56						
Supply of HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-8 with specials and valves etc.						
a)	HDPE Pipes density 700-960 kg/cu.m (20mm)					
	2.Material					
	HDPE Pipes density 700-960 kg/cu.m (20mm)	1.00	R.M	@ 38.00	38.00	
	Fittings and Special			30%	11.40	
					49.40	49
b)	HDPE Pipes density 700-960 kg/cu.m (25mm)					
	2.Material					
	HDPE Pipes density 700-960 kg/cu.m (25mm)	1.00	R.M	@ 45.00	45.00	
	Fittings and Special			30%	13.50	
					58.50	59

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
c)	HDPE Pipes density 700-960 kg/cu.m (32mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (32mm)	1.00	R.M @	62.00	62.00
	Fittings and Special			30%	18.60
					<u>80.60</u>
					81
d)	HDPE Pipes density 700-960 kg/cu.m (40mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (40mm)	1.00	R.M @	88.42	88.42
	Fittings and Special			30%	26.53
					<u>114.95</u>
					115
f)	HDPE Pipes density 700-960 kg/cu.m (50mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (50mm)	1.00	R.M @	139.42	139.42
	Fittings and Special			30%	41.83
					<u>181.25</u>
					181
g)	HDPE Pipes density 700-960 kg/cu.m (63mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (63mm)	1.00	R.M @	212.00	212.00
	Fittings and Special			30%	63.60
					<u>275.60</u>
					276
h)	HDPE Pipes density 700-960 kg/cu.m (75mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (75mm)	1.00	R.M @	307.87	307.87
	Fittings and Special			30%	92.36
					<u>400.23</u>
					400
i)	HDPE Pipes density 700-960 kg/cu.m (90mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (90mm)	1.00	R.M @	440.73	440.73
	Fittings and Special			30%	132.22
					<u>572.95</u>
					573
j)	HDPE Pipes density 700-960 kg/cu.m (110mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (110mm)	1.00	R.M @	637.89	637.89
	Fittings and Special			30%	191.37
					<u>829.26</u>
					829
k)	HDPE Pipes density 700-960 kg/cu.m (125mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (125mm)	1.00	R.M @	820.08	820.08
	Fittings and Special			30%	246.02
					<u>1,066.10</u>
					1,066
l)	HDPE Pipes density 700-960 kg/cu.m (140mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (140mm)	1.00	R.M @	1050.00	1,050.00
	Fittings and Special			30%	315.00
					<u>1,365.00</u>
					1,365

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
m)	HDPE Pipes density 700-960 kg/cu.m (160mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (160mm)	1.00	R.M @	1343.94	1,343.94
	Fittings and Special			30%	403.18
					<u>1,747.12</u>
					1,747
n)	HDPE Pipes density 700-960 kg/cu.m (180mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (180mm)	1.00	R.M @	1691.17	1,691.17
	Fittings and Special			30%	507.35
					<u>2,198.52</u>
					2,199
o)	HDPE Pipes density 700-960 kg/cu.m (200mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (200mm)	1.00	R.M @	2091.47	2,091.47
	Fittings and Special			30%	627.44
					<u>2,718.91</u>
					2,719
p)	HDPE Pipes density 700-960 kg/cu.m (225mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (225mm)	1.00	R.M @	2728.68	2,728.68
	Fittings and Special			30%	818.60
					<u>3,547.28</u>
					3,547
q)	HDPE Pipes density 700-960 kg/cu.m (250mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (250mm)	1.00	R.M @	3242.71	3,242.71
	Fittings and Special			30%	972.81
					<u>4,215.52</u>
					4,216
r)	HDPE Pipes density 700-960 kg/cu.m (280mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (280mm)	1.00	R.M @	4444.42	4,444.42
	Fittings and Special			30%	1,333.33
					<u>5,777.75</u>
					5,778
s)	HDPE Pipes density 700-960 kg/cu.m (315mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (315mm)	1.00	R.M @	5603.83	5,603.83
	Fittings and Special			30%	1,681.15
					<u>7,284.98</u>
					7,285
t)	HDPE Pipes density 700-960 kg/cu.m (355mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (355mm)	1.00	R.M @	7160.45	7,160.45
	Fittings and Special			30%	2,148.14
					<u>9,308.59</u>
					9,309
u)	HDPE Pipes density 700-960 kg/cu.m (400mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (400mm)	1.00	R.M @	8992.20	8,992.20
	Fittings and Special			30%	2,697.66
					<u>11,689.86</u>
					11,690

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
v)	HDPE Pipes density 700-960 kg/cu.m (450 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (450 mm)	1.00	R.M @	11372.49	11,372.49
	Fittings and Special			30%	3,411.75
					<u>14,784.24</u>
					14,784
w)	HDPE Pipes density 700-960 kg/cu.m (500 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (500 mm)	1.00	R.M @	14360.88	14,360.88
	Fittings and Special			30%	4,308.26
					<u>18,669.14</u>
					18,669
x)	HDPE Pipes density 700-960 kg/cu.m (560 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (560 mm)	1.00	R.M @	18641.52	18,641.52
	Fittings and Special			30%	5,592.46
					<u>24,233.98</u>
					24,234
y)	HDPE Pipes density 700-960 kg/cu.m (630 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (630 mm)	1.00	R.M @	24191.47	24,191.47
	Fittings and Special			30%	7,257.44
					<u>31,448.91</u>
					31,449
z)	HDPE Pipes density 700-960 kg/cu.m (800 mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (800 mm)	1.00	R.M @	32500.00	32,500.00
	Fittings and Special			30%	9,750.00
					<u>42,250.00</u>
					42,250

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laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-8, complete in all respects.

a)	1. Labour				
	Labourer	0.10	Hrs @	87.50	8.75
	Pipe Fitter	0.10	Hrs @	125.00	12.50
					<u>21.25</u>
	Contractor's profit & overhead			20%	4.25
					<u>25.50</u>
					26
b)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
c)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
d)					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					53.13
	Contractor's profit & overhead			20%	10.63
					63.75
					64
e)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					53.13
	Contractor's profit & overhead			20%	10.63
					63.75
					64
f)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					53.13
	Contractor's profit & overhead			20%	10.63
					63.75
					64
g)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
h)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
i)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
j)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
k)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
l)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead			20%	25.50
					153.00
					153

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
m)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead		20%		25.50
				153.00	153
n)	1. Labour				
	Labourer	0.60	Hrs @	87.50	52.50
	Pipe Fitter	0.60	Hrs @	125.00	75.00
					127.50
	Contractor's profit & overhead		20%		25.50
				153.00	153
o)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead		20%		31.88
				191.25	191
p)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead		20%		31.88
				191.25	191
q)	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Pipe Fitter	0.75	Hrs @	125.00	93.75
					159.38
	Contractor's profit & overhead		20%		31.88
				191.25	191
r)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
				255.00	255
s)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
				255.00	255
t)	1. Labour				
	Labourer	1.00	Hrs @	87.50	87.50
	Pipe Fitter	1.00	Hrs @	125.00	125.00
					212.50
	Contractor's profit & overhead		20%		42.50
				255.00	255

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
u)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	156.25
					265.63
	Contractor's profit & overhead			20%	53.13
					<u>318.75</u>
					319
v)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	156.25
					265.63
	Contractor's profit & overhead			20%	53.13
					<u>318.75</u>
					319
w)	1. Labour				
	Labourer	1.25	Hrs @	87.50	109.38
	Pipe Fitter	1.25	Hrs @	125.00	156.25
					265.63
	Contractor's profit & overhead			20%	53.13
					<u>318.75</u>
					319
x)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	187.50
					318.75
	Contractor's profit & overhead			20%	63.75
					<u>382.50</u>
					383
y)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	187.50
					318.75
	Contractor's profit & overhead			20%	63.75
					<u>382.50</u>
					383
z)	1. Labour				
	Labourer	1.50	Hrs @	87.50	131.25
	Pipe Fitter	1.50	Hrs @	125.00	187.50
					318.75
	Contractor's profit & overhead			20%	63.75
					<u>382.50</u>
					383

Unit	Description	Component Cost		Unit	Rate
		(Rs)		(Rs)	

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Supply of HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-6 with specials and valves etc.

a)	HDPE Pipes density 700-960 kg/cu.m (25mm)							
	2.Material							
	HDPE Pipes density 700-960 kg/cu.m (25mm)	1.00	R.M	@	39.48	39.48		
	Fittings and Special				30%	11.84		
						51.32		51
b)	HDPE Pipes density 700-960 kg/cu.m (32mm)							
	2.Material							
	HDPE Pipes density 700-960 kg/cu.m (32mm)	1.00	R.M	@	50.40	50.40		
	Fittings and Special				30%	15.12		
						65.52		66
c)	HDPE Pipes density 700-960 kg/cu.m (40mm)							
	2.Material							
	HDPE Pipes density 700-960 kg/cu.m (40mm)	1.00	R.M	@	63.00	63.00		
	Fittings and Special				30%	18.90		
						81.90		82
d)	HDPE Pipes density 700-960 kg/cu.m (50mm)							
	2.Material							
	HDPE Pipes density 700-960 kg/cu.m (50mm)	1.00	R.M	@	78.96	78.96		
	Fittings and Special				30%	23.69		
						102.65		103
f)	HDPE Pipes density 700-960 kg/cu.m (63mm)							
	2.Material							
	HDPE Pipes density 700-960 kg/cu.m (63mm)	1.00	R.M	@	100.80	100.80		
	Fittings and Special				30%	30.24		
						131.04		131
g)	HDPE Pipes density 700-960 kg/cu.m (75mm)							
	2.Material							
	HDPE Pipes density 700-960 kg/cu.m (75mm)	1.00	R.M	@	139.44	139.44		
	Fittings and Special				30%	41.83		
						181.27		181
h)	HDPE Pipes density 700-960 kg/cu.m (90mm)							
	2.Material							
	HDPE Pipes density 700-960 kg/cu.m (90mm)	1.00	R.M	@	181.44	181.44		
	Fittings and Special				30%	54.43		
						235.87		236
i)	HDPE Pipes density 700-960 kg/cu.m (110mm)							
	2.Material							
	HDPE Pipes density 700-960 kg/cu.m (110mm)	1.00	R.M	@	275.52	275.52		
	Fittings and Special				30%	82.66		
						358.18		358

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
j)	HDPE Pipes density 700-960 kg/cu.m (140mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (140mm)	1.00	R.M @	425.04	425.04
	Fittings and Special			30%	127.51
					<u>552.55</u>
					553
k)	HDPE Pipes density 700-960 kg/cu.m (160mm)				
	2.Material				
	HDPE Pipes density 700-960 kg/cu.m (160mm)	1.00	R.M @	582.12	582.12
	Fittings and Special			30%	174.64
					<u>756.76</u>
					757
Item No. 27- 59					
laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-6, complete in all respects.					
a)	1. Labour				
	Labourer	0.10	Hrs @	87.50	8.75
	Pipe Fitter	0.10	Hrs @	125.00	12.50
					<u>21.25</u>
	Contractor's profit & overhead			20%	4.25
					<u>25.50</u>
					26
b)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
c)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
d)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
e)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64
f)	1. Labour				
	Labourer	0.25	Hrs @	87.50	21.88
	Pipe Fitter	0.25	Hrs @	125.00	31.25
					<u>53.13</u>
	Contractor's profit & overhead			20%	10.63
					<u>63.75</u>
					64

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
g)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
h)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
i)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
j)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
k)	1. Labour				
	Labourer	0.50	Hrs @	87.50	43.75
	Pipe Fitter	0.50	Hrs @	125.00	62.50
					106.25
	Contractor's profit & overhead			20%	21.25
					127.50
					128
Item No. 27-60					
Supplying G.I. pipe line IIL or equivalent of approved make registered with PSQCA including the cost of specials.					
a)	Light duty				
	2. Material				
	G.I. pipe 15 mm dia.	1.00	R.M. @	246.25	246.25
	Specials			40%	98.50
	Extra for coating & wrapping etc.			30%	73.88
	Total Composite rate				418.63
					419
ii)	3/4" (20 mm) inner dia.				
	2. Material				
	G.I. pipe 20 mm dia.	1.00	R.M. @	327.50	327.50
	Specials			40%	131.00
	Extra for coating & wrapping etc.			30%	98.25
	Total Composite rate				556.75
					557
iii)	1" (25 mm) inner dia.				
	2. Material				
	G.I. pipe 25 mm dia.	1.00	R.M. @	471.25	471.25
	Specials			40%	188.50
	Extra for coating & wrapping etc.			30%	141.38
	Total Composite rate				801.13
					801

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
iv) 1.25" (30 mm) dia					
2. Material					
G.I. pipe 30 mm dia.	1.00 R.M. @	655.00	655.00		
Specials		40%	262.00		
Extra for coating & wrapping etc.		30%	196.50		
Total Composite rate			1,113.50		1,114
v) 1.5" (40 mm) dia					
2. Material					
G.I. pipe 40 mm dia.	1.00 R.M. @	757.50	757.50		
Specials		40%	303.00		
Extra for coating & wrapping etc.		30%	227.25		
Total Composite rate			1,287.75		1,288
vi) 2" (50 mm) dia					
2. Material					
G.I. pipe 50 mm dia.	1.00 R.M. @	1046.25	1,046.25		
Specials		40%	418.50		
Extra for coating & wrapping etc.		30%	313.88		
Total Composite rate			1,778.63		1,779
vii) 2.5" (65 mm) inner dia.					
2. Material					
G.I. pipe 65 mm dia.	1.00 R.M. @	1640.00	1,640.00		
Specials		40%	656.00		
Extra for coating & wrapping etc.		30%	492.00		
Total Composite rate			2,788.00		2,788
viii) 3" (75 mm) dia inner dia.					
2. Material					
G.I. pipe 75 mm dia.	1.00 R.M. @	2500.00	2,500.00		
Specials		40%	1,000.00		
Extra for coating & wrapping etc.		30%	750.00		
Total Composite rate			4,250.00		4,250
ix) 4" (100 mm) dia					
2. Material					
G.I. pipe 100 mm dia.	1.00 R.M. @	3076.25	3,076.25		
Specials		40%	1,230.50		
Extra for coating & wrapping etc.		30%	922.88		
Total Composite rate			5,229.63		5,230
b) Medium duty					
i) 1/2" (15 mm) dia					
2. Material					
G.I. pipe 15 mm dia.	1.00 R.M. @	255.74	255.74		
Specials		40%	102.30		
Extra for coating & wrapping etc.		30%	76.72		
Total Composite rate			434.76		435
ii) 3/4" (20 mm) dia					
2. Material					
G.I. pipe 20 mm dia.	1.00 R.M. @	329.53	329.53		
Specials		40%	131.81		
Extra for coating & wrapping etc.		30%	98.86		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		560.20		560
iii)	1" (25 mm) dia				
	2. Material				
	G.I. pipe 25 mm dia.	1.00	R.M. @ 492.48		492.48
	Specials		40%		196.99
	Extra for coating & wrapping etc.		30%		147.74
	Total Composite rate				837.22
iv)	1.25" (30 mm) dia				
	2. Material				
	G.I. pipe 30 mm dia.	1.00	R.M. @ 638.84		638.84
	Specials		40%		255.54
	Extra for coating & wrapping etc.		30%		191.65
	Total Composite rate				1,086.03
v)	1.5" (40 mm) dia				
	2. Material				
	G.I. pipe 40 mm dia.	1.00	R.M. @ 739.58		739.58
	Specials		40%		295.83
	Extra for coating & wrapping etc.		30%		221.88
	Total Composite rate				1,257.29
vi)	2" (50 mm) dia				
	2. Material				
	G.I. pipe 50 mm dia.	1.00	R.M. @ 1046.25		1,046.25
	Specials		40%		418.50
	Extra for coating & wrapping etc.		30%		313.88
	Total Composite rate				1,778.63
vii)	2.5" (65 mm) dia				
	2. Material				
	G.I. pipe 65 mm dia.	1.00	R.M. @ 1321.92		1,321.92
	Specials		40%		528.77
	Extra for coating & wrapping etc.		30%		396.58
	Total Composite rate				2,247.26
viii)	3" (75 mm) dia				
	2. Material				
	G.I. pipe 75 mm dia.	1.00	R.M. @ 1703.81		1,703.81
	Specials		40%		681.52
	Extra for coating & wrapping etc.		30%		511.14
	Total Composite rate				2,896.47
ix)	4" (100 mm) dia				
	2. Material				
	G.I. pipe 100 mm dia.	1.00	R.M. @ 2446.85		2,446.85
	Specials		40%		978.74
	Extra for coating & wrapping etc.		30%		734.05
					4,159.64
	Contractor's profit & overhead		20%		831.93
	Total Composite rate				4,991.57
x)	5" (125 mm) dia				
	2. Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	G.I. pipe 125 mm dia.	1.00	R.M. @	3302.21	3,302.21
	Specials			40%	1,320.88
	Extra for coating & wrapping etc.			30%	990.66
	Total Composite rate				5,613.75
					5,614
xi)	6" (150 mm) dia				
	2. Material				
	G.I. pipe 150 mm dia.	1.00	R.M. @	3899.32	3,899.32
	Specials			40%	1,559.73
	Extra for coating & wrapping etc.			30%	1,169.80
	Total Composite rate				6,628.84
					6,629
	Item No. 27-61				
	laying, cutting, jointing, testing and disinfecting G.I. pipe line IIL or equivalent of approved make registered with PSQCA including the cost of specials and cost of painting 2 coats with bitumen to pipes and specials after cleaning and wrapping tightly hessian cloth soaked in Mexphalt composition around pipes.				
a)	Light duty				
i)	1/2" (15 mm) inner dia.				
	1. Labour				
	Pipe fitter	0.40	Hrs @	125.00	50.00
	Labourer	0.40	Hrs @	87.50	35.00
					85.00
	Contractor's profit & overhead			20%	17.00
	Total Labour rate				102.00
					102
ii)	3/4" (20 mm) inner dia.				
	1. Labour				
	Total Labour rate			Same as in item 27-23(a)1	102.00
					102
iii)	1" (25 mm) inner dia.				
	1. Labour				
	Pipe fitter	0.42	Hrs @	125.00	52.50
	Labourer	0.50	Hrs @	87.50	43.75
					96.25
	Contractor's profit & overhead			20%	19.25
	Total Labour rate				115.50
					116
iv)	1.25" (30 mm) dia				
	1. Labour				
	Total Labour rate			Same as in item 27-23(a)3	115.50
					116
v)	1.5" (40 mm) dia				
	1. Labour				
	Pipe fitter	0.35	Hrs @	125.00	43.75
	Labourer	0.75	Hrs @	87.50	65.63
					109.38
	Contractor's profit & overhead			20%	21.88
	Total Labour rate				131.25
					131
vi)	2" (50 mm) dia				
	1. Labour				
	Total Labour rate			Same as in item 27-23(a)5	131.25
					131
vii)	2.5" (65 mm) inner dia.				
	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Pipe fitter	0.45	Hrs @	125.00	56.25
	Labourer	0.90	Hrs @	87.50	78.75
					<u>135.00</u>
	Contractor's profit & overhead			20%	27.00
	Total Labour rate				<u>162.00</u> 162
viii)	3" (75 mm) dia inner dia.				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)7			162.00 162
ix)	4" (100 mm) dia				
	1. Labour				
	Pipe fitter	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					<u>150.00</u>
	Contractor's profit & overhead			20%	30.00
	Total Labour rate				<u>180.00</u> 180
b)	Medium duty				
i)	1/2" (15 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)1			102.00 102
ii)	3/4" (20 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)1			102.00 102
iii)	1" (25 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)3			115.50 116
iv)	1.25" (30 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)3			115.50 116
v)	1.5" (40 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)5			131.25 131
vi)	2" (50 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)5			131.25 131
vii)	2.5" (65 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)7			162.00 162
viii)	3" (75 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)7			162.00 162
ix)	4" (100 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(a)9			180.00 180
x)	5" (125 mm) dia				
	1. Labour				
	Pipe fitter	0.60	Hrs @	125.00	75.00
	Labourer	1.25	Hrs @	87.50	109.38
					<u>184.38</u>

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	184.38		36.88
	Total Labour rate		221.25		221
xi)	6" (150 mm) dia				
	1. Labour				
	Total Labour rate	Same as in item 27-23(b)10	221.25		221
R.M.	Item No. 27-62				
	Supplying MS strainer in tubewell bore hole including specials, sockets and studs of the nominal inner diameter.				
	a) 2" (50 mm) dia. and 5/32" (4 mm) wall thickness				
	2. Material				
	MS strainer 50 mm dia	1.00 R.M. @	1114.65		1,114.65
	Jointing material		2%		22.29
	Total Composite rate				1,137
	b) 3" (75 mm) dia. and 5/32" (4 mm) wall thickness				
	2. Material				
	MS strainer 75 mm dia	1.00 R.M. @	1601.85		1,601.85
	Jointing material		2%		32.04
	Total Composite rate				1,634
	c) 4" (100 mm) dia. and 3/16" (5 mm) wall thickness				
	2. Material				
	MS strainer 100 mm dia	1.00 R.M. @	2125.96		2,125.96
	Jointing material		2%		42.52
	Total Composite rate				2,169
	d) 5" (125 mm) dia. and 3/16" (5 mm) wall thickness				
	2. Material				
	MS strainer 125 mm dia	1.00 R.M. @	4237.15		4,237.15
	Jointing material		2%		84.74
	Total Composite rate				4,322
	e) 6" (150 mm) dia. and 3/16" (5 mm) wall thickness				
	2. Material				
	MS strainer 150 mm dia	1.00 R.M. @	5004.86		5,004.86
	Jointing material		2%		100.10
	Total Composite rate				5,105
	f) 7" (175 mm) dia and 3/16" (5 mm) thick				
	2. Material				
	MS strainer 175 mm dia	1.00 R.M. @	5839.00		5,839.00
	Jointing material		2%		116.78
	Total Composite rate				5,956
	g) 8" (200 mm) dia and 3/16" (5 mm) thick				
	2. Material				
	MS strainer 200 mm dia	1.00 R.M. @	7241.55		7,241.55
	Jointing material		2%		144.83
	Total Composite rate				7,386
	h) 9" (225 mm) dia and 3/16" (5 mm) thick				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	MS strainer 225 mm dia	1.00	R.M. @ 8311.91	8,311.91	
	Jointing material		2%	166.24	
	Total Composite rate			8,478.15	8,478
	i) 10" (250 mm) dia and 3/16" (5 mm) thick				
	2. Material				
	MS strainer 250 mm dia	1.00	R.M. @ 10902.92	10,902.92	
	Jointing material		2%	218.06	
	Total Composite rate			11,120.98	11,121
	J) 12" (300 mm) dia and 1/4" (6 mm) thick				
	2. Material				
	MS strainer 300 mm dia	1.00	R.M. @ 16033.27	16,033.27	
	Jointing material		2%	320.67	
	Total Composite rate			16,353.94	16,354
	k) 15" (375 mm) dia and 1/4" (6 mm) thick				
	2. Material				
	MS strainer 375 mm dia	1.00	R.M. @ 19930.86	19,930.86	
	Jointing material		2%	398.62	
	Total Composite rate			20,329.48	20,330
	l) 18" (450 mm) dia and 1/4" (6 mm) thick				
	2. Material				
	MS strainer 450 mm dia	1.00	R.M. @ 22145.40	22,145.40	
	Jointing material		2%	442.91	
	Total Composite rate			22,588.31	22,588
R.M.	Item No. 27-63				
	Installing MS strainer in tubewell bore hole including specials, sockets and studs of the nominal inner diameter.				
	a) 2" (50 mm) dia. and 5/32" (4 mm) wall thickness				
	1. Labour				
	Pipe fitter	0.56	Hrs @ 125.00	70.00	
	Labourer	0.60	Hrs @ 87.50	52.50	
				122.50	
	Contractor's profit & overhead		20%	24.50	
	Total Labour rate			147.00	147
	b) 3" (75 mm) dia. and 5/32" (4 mm) wall thickness				
	1. Labour				
	Total Labour rate		Same as in item 27-11(a)	147.00	147
	c) 4" (100 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Total Labour rate		Same as in item 27-11(a)	147.00	147
	d) 5" (125 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				
	Total Labour rate		Same as in item 27-11(a)	147.00	147
	e) 6" (150 mm) dia. and 3/16" (5 mm) wall thickness				
	1. Labour				

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	
	Total Labour rate Same as in item 27-11(a)	147.00		147
f)	7" (175 mm) dia and 3/16" (5 mm) thick			
	1. Labour			
	Total Labour rate Same as in item 27-11(a)	147.00		147
g)	8" (200 mm) dia and 3/16" (5 mm) thick			
	1. Labour			
	Total Labour rate Same as in item 27-11(a)	147.00		147
h)	9" (225 mm) dia and 3/16" (5 mm) thick			
	1. Labour			
	Total Labour rate Same as in item 27-11(a)	147.00		147
i)	10" (250 mm) dia and 3/16" (5 mm) thick			
	1. Labour			
	Total Labour rate Same as in item 27-11(a)	147.00		147
J)	12" (300 mm) dia and 1/4" (6 mm) thick			
	1. Labour			
	Total Labour rate Same as in item 27-11(a)	147.00		147
k)	15" (375 mm) dia and 1/4" (6 mm) thick			
	1. Labour			
	Total Labour rate Same as in item 27-11(a)	147.00		147
l)	18" (450 mm) dia and 1/4" (6 mm) thick			
	1. Labour			
	Total Labour rate Same as in item 27-11(a)	147.00		147

Item No. 27-64

Providing and fixing at Site Centrifugal Pump of KSB, Grandfos or approved equivalent (similar specifications), complete in all respects including all taxes.

a) Centrifugal Pump with capacity 40 upto 200 gpm (2"x1.5")

1. Labour					
Plumber	1.00	Hrs	@	125.00	125.00
Electrician	1.00	Hrs	@	125.00	125.00
Electrician helper	1.00	Hrs	@	87.50	87.50
					337.50
Contractor's profit & overhead				20%	67.50
Total Labour rate					405.00
2. Material					
Pump 2"x1.5" (40-200)	1.00	Nos.	@	119,606	119,605.50
Contractor's profit & overhead				20%	23,921.10
Total Composite rate					143,931.60
					143,932

b) Centrifugal Pump with capacity 50 upto 160 gpm (2.5"x2")

1. Labour					
Plumber	1.00	Hrs	@	125.00	125.00
Electrician	1.00	Hrs	@	125.00	125.00
Electrician helper	1.00	Hrs	@	87.50	87.50
					337.50
Contractor's profit & overhead				20%	67.50

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		405.00		405.00
	2. Material				
	Pump 2.5"x2" (50-160)	1.00	Nos. @ 127,184		127,184.40
	Contractor's profit & overhead		20%		25,436.88
	Total Composite rate				153,026.30
	c) Centrifugal Pump with capacity 65 upto 200 gpm (3"x2.5")				
	1. Labour				
	Plumber	1.00	Hrs @ 125.00		125.00
	Electrician	1.00	Hrs @ 125.00		125.00
	Electrician helper	1.00	Hrs @ 87.50		87.50
					<u>337.50</u>
	Contractor's profit & overhead		20%		67.50
	Total Labour rate				405.00
	2. Material				
	Pump 3"x2.5" (65-200)	1.00	Nos. @ 135,828		135,828.00
	Contractor's profit & overhead		20%		27,165.60
	Total Composite rate				163,398.60
	d) Centrifugal Pump with capacity 32 upto 160 gpm				
	1. Labour				
	Plumber	1.00	Hrs @ 125.00		125.00
	Electrician	1.00	Hrs @ 125.00		125.00
	Electrician helper	1.00	Hrs @ 87.50		87.50
					<u>337.50</u>
	Contractor's profit & overhead		20%		67.50
	Total Labour rate				405.00
	2. Material				
	Pump (32-160)	1.00	Nos. @ 119,296		119,295.75
	Contractor's profit & overhead		20%		23,859.15
	Total Composite rate				143,559.90
	e) Centrifugal Pump with capacity 40 upto 250 gpm				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	2.00	Hrs @ 125.00		250.00
	Electrician helper	2.00	Hrs @ 87.50		175.00
					<u>675.00</u>
	Contractor's profit & overhead		20%		135.00
	Total Labour rate				810.00
	2. Material				
	Pump (40-250)	1.00	Nos. @ 159,205		159,205.20
	Contractor's profit & overhead		20%		31,841.04
	Total Composite rate				191,856.25
	f) Centrifugal Pump with capacity 50 upto 200 gpm				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	2.00	Hrs @ 125.00		250.00
	Electrician helper	2.00	Hrs @ 87.50		175.00
					<u>675.00</u>
	Contractor's profit & overhead		20%		135.00
	Total Labour rate				810.00
	2. Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Pump (50-200)	1.00	Nos. @ 134,639		134,639.40
	Contractor's profit & overhead		20%		26,927.88
	Total Composite rate				162,377.28
					162,377.30

g) Centrifugal Pump with capacity 80 upto 200 gpm

1. Labour

Plumber	2.00	Hrs @	125.00		250.00
Electrician	2.00	Hrs @	125.00		250.00
Electrician helper	2.00	Hrs @	87.50		175.00
					675.00
Contractor's profit & overhead			20%		135.00
Total Labour rate					810.00
					810.00

2. Material

Pump (80-200)	1.00	Nos. @	165,257		165,257.40
Contractor's profit & overhead			20%		33,051.48
Total Composite rate					199,118.88
					199,118.90

Item No. 27-65

Providing and fixing at Site Electric Motor of KSB, Grandfos, Siemens or approved equivalent (similar specifications), complete in all respects including all taxes.

a) Electric Motor, 1 Hp

1. Labour

Electrician	0.50	Hrs @	125.00		62.50
Electrician helper	1.00	Hrs @	87.50		87.50
					150.00
Contractor's profit & overhead			20%		30.00
Total Labour rate					180.00
					180.00

2. Material

Motor, 2,900 RPM, 1HP	1.00	Nos. @	14335.65		14,335.65
Contractor's profit & overhead			20%		2,867.13
Total Composite rate					17,382.78
					17,382.80

b) Electric Motor, 2 Hp

1. Labour

Electrician	0.50	Hrs @	125.00		62.50
Electrician helper	1.00	Hrs @	87.50		87.50
					150.00
Contractor's profit & overhead			20%		30.00
Total Labour rate					180.00
					180.00

2. Material

Motor, 2,900 RPM, 2HP	1.00	Nos. @	21,907		21,907.20
Contractor's profit & overhead			20%		4,381.44
Total Composite rate					26,468.64
					26,468.65

c) Electric Motor, 3 Hp

1. Labour

Electrician	0.50	Hrs @	125.00		62.50
Electrician helper	1.00	Hrs @	87.50		87.50
					150.00
Contractor's profit & overhead			20%		30.00
Total Labour rate					180.00
					180.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	Motor, 2,900 RPM, 3HP	1.00	Nos. @ 34,835	34,834.80	
	Contractor's profit & overhead		20%	6,966.96	
	Total Composite rate			41,981.76	41,981.75
d)	Electric Motor, 5.5 Hp				
	1. Labour				
	Electrician	1.00	Hrs @ 125.00	125.00	
	Electrician helper	2.00	Hrs @ 87.50	175.00	
				300.00	
	Contractor's profit & overhead		20%	60.00	
	Total Labour rate			360.00	360.00
	2. Material				
	Motor, 2,900 RPM, 5.5HP	1.00	Nos. @ 46,138	46,138.05	
	Contractor's profit & overhead		20%	9,227.61	
	Total Composite rate			55,725.66	55,725.65
e)	Electric Motor, 7.5 Hp				
	1. Labour				
	Electrician	3.00	Hrs @ 125.00	375.00	
	Electrician helper	4.00	Hrs @ 87.50	350.00	
				725.00	
	Contractor's profit & overhead		20%	145.00	
	Total Labour rate			870.00	870.00
	2. Material				
	Motor, 2,900 RPM, 7.5HP	1.00	Nos. @ 64,935	64,935.15	
	Contractor's profit & overhead		20%	12,987.03	
	Total Composite rate			78,792.18	78,792
f)	Electric Motor, 10 Hp				
	1. Labour				
	Electrician	4.00	Hrs @ 125.00	500.00	
	Electrician helper	6.00	Hrs @ 87.50	525.00	
				1,025.00	
	Contractor's profit & overhead		20%	205.00	
	Total Labour rate			1,230.00	1230.00
	2. Material				
	Motor, 2,900 RPM, 10HP	1.00	Nos. @ 83,718	83,717.55	
	Contractor's profit & overhead		20%	16,743.51	
	Total Composite rate			101,691.06	101,691
g)	Electric Motor, 15 Hp				
	1. Labour				
	Electrician	6.00	Hrs @ 125.00	750.00	
	Electrician helper	8.00	Hrs @ 87.50	700.00	
				1,450.00	
	Contractor's profit & overhead		20%	290.00	
	Total Labour rate			1,740.00	1740.00
	2. Material				
	Motor, 2,900 RPM, 15HP	1.00	Nos. @ 116,626	116,625.60	
	Contractor's profit & overhead		20%	23,325.12	
	Total Composite rate			141,690.72	141,691
h)	Electric Motor, 20 Hp				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Electrician	8.00	Hrs @ 125.00		1,000.00
	Electrician helper	12.00	Hrs @ 87.50		1,050.00
					<u>2,050.00</u>
	Contractor's profit & overhead		20%		410.00
	Total Labour rate				<u>2,460.00</u> 2460.00
	2. Material				
	Motor, 2,900 RPM, 20HP	1.00	Nos. @ 151,809		151,809.00
	Contractor's profit & overhead		20%		30,361.80
	Total Composite rate				<u>184,630.80</u> 184,631
	i) Electric Motor, 30 Hp				
	1. Labour				
	Electrician	12.00	Hrs @ 125.00		1,500.00
	Electrician helper	18.00	Hrs @ 87.50		1,575.00
					<u>3,075.00</u>
	Contractor's profit & overhead		20%		615.00
	Total Labour rate				<u>3,690.00</u> 3690.00
	2. Material				
	Motor, 2,900 RPM, 30HP	1.00	Nos. @ 200,633		200,632.95
	Contractor's profit & overhead		20%		40,126.59
	Total Composite rate				<u>244,449.54</u> 244,450
	j) Electric Motor, 40 Hp				
	1. Labour				
	Electrician	12.00	Hrs @ 125.00		1,500.00
	Electrician helper	18.00	Hrs @ 87.50		1,575.00
					<u>3,075.00</u>
	Contractor's profit & overhead		20%		615.00
	Total Labour rate				<u>3,690.00</u> 3690.00
	2. Material				
	Motor, 2,900 RPM, 40HP	1.00	Nos. @ 218,925		218,925.00
	Contractor's profit & overhead		20%		43,785.00
	Total Composite rate				<u>266,400.00</u> 266,400

Item No. 27-66

Providing and fixing at Site Mono Block PumpSet of Meco or approved equivalent (similar specifications), complete in all respects including all taxes.

a) Mono Block PumpSet, 4HP					
	1. Labour				
	Electrician	1.00	Hrs @ 125.00		125.00
	Electrician helper	2.00	Hrs @ 87.50		175.00
					<u>300.00</u>
	Contractor's profit & overhead		20%		60.00
	Total Labour rate				<u>360.00</u> 360.00
	2. Material				
	Mono Block PumpSet, 4HP	1.00	Nos. @ 39,699		39,699.45
	Contractor's profit & overhead		20%		7,939.89
	Total Composite rate				<u>47,999.34</u> 47,999
b) Mono Block PumpSet, 5HP					
	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Electrician	1.00	Hrs @	125.00	125.00
	Electrician helper	2.00	Hrs @	87.50	175.00
					300.00
	Contractor's profit & overhead			20%	60.00
	Total Labour rate				360.00
					360.00
	2. Material				
	Mono Block PumpSet, 5HP	1.00	Nos. @	44,662	44,661.75
	Contractor's profit & overhead			20%	8,932.35
	Total Composite rate				53,954.10
					53,954
c)	Mono Block PumpSet, 7.5HP				-
	1. Labour				
	Electrician	2.00	Hrs @	125.00	250.00
	Electrician helper	3.00	Hrs @	87.50	262.50
					512.50
	Contractor's profit & overhead			20%	102.50
	Total Labour rate				615.00
					615.00
	2. Material				
	Mono Block PumpSet, 7.5HP	1.00	Nos. @	61,410	61,410.30
	Contractor's profit & overhead			20%	12,282.06
	Total Composite rate				74,307.36
					74,307
d)	Mono Block PumpSet, 10HP				-
	1. Labour				
	Electrician	2.00	Hrs @	125.00	250.00
	Electrician helper	4.00	Hrs @	87.50	350.00
					600.00
	Contractor's profit & overhead			20%	120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Mono Block PumpSet, 10HP	1.00	Nos. @	82,024	82,023.90
	Contractor's profit & overhead			20%	16,404.78
	Total Composite rate				99,148.68
					99,149
e)	Mono Block PumpSet, 15HP				-
	1. Labour				
	Electrician	3.00	Hrs @	125.00	375.00
	Electrician helper	6.00	Hrs @	87.50	525.00
					900.00
	Contractor's profit & overhead			20%	180.00
	Total Labour rate				1,080.00
					1080.00
	2. Material				
	Mono Block PumpSet, 15HP	1.00	Nos. @	104,238	104,237.70
	Contractor's profit & overhead			20%	20,847.54
	Total Composite rate				126,165.24
					126,165

Item No. 27-67

Providing and fixing at Site of Submersible Pumpset of KSB, Alarko, Grandfos or approved equivalent (similar specifications), complete in all respects including all

a)	Submersible PumpSet, 4HP				
	1. Labour				
	Plumber	4.00	Hrs @	125.00	500.00
	Electrician	2.00	Hrs @	125.00	250.00
	Electrician helper	4.00	Hrs @	87.50	350.00
					1,100.00
	Contractor's profit & overhead			20%	220.00
	Total Labour rate				1,320.00
					1320.00
	2. Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Submersible Pumpset, 4HP	1.00	Nos. @ 249,810		249,809.70
	Contractor's profit & overhead		20%		49,961.94
	Total Composite rate				301,091.64
					301,092
b)	Submersible PumpSet, 5HP				
	1. Labour				
	Plumber	4.00	Hrs @ 125.00		500.00
	Electrician	2.00	Hrs @ 125.00		250.00
	Electrician helper	4.00	Hrs @ 87.50		350.00
					1,100.00
	Contractor's profit & overhead		20%		220.00
	Total Labour rate				1,320.00
					1320.00
	2. Material				
	Submersible Pumpset, 5HP	1.00	Nos. @ 299,205		299,204.85
	Contractor's profit & overhead		20%		59,840.97
	Total Composite rate				360,365.82
					360,366
c)	Submersible PumpSet, 7.5HP				
	1. Labour				
	Plumber	4.00	Hrs @ 125.00		500.00
	Electrician	2.00	Hrs @ 125.00		250.00
	Electrician helper	4.00	Hrs @ 87.50		350.00
					1,100.00
	Contractor's profit & overhead		20%		220.00
	Total Labour rate				1,320.00
					1320.00
	2. Material				
	Submersible Pumpset, 7.5HP	1.00	Nos. @ 352,746		352,746.45
	Contractor's profit & overhead		20%		70,549.29
	Total Composite rate				424,615.74
					424,616
d)	Submersible PumpSet, 10HP				
	1. Labour				
	Plumber	8.00	Hrs @ 125.00		1,000.00
	Electrician	4.00	Hrs @ 125.00		500.00
	Electrician helper	8.00	Hrs @ 87.50		700.00
					2,200.00
	Contractor's profit & overhead		20%		440.00
	Total Labour rate				2,640.00
					2640.00
	2. Material				
	Submersible Pumpset, 10HP	1.00	Nos. @ 406,688		406,688.10
	Contractor's profit & overhead		20%		81,337.62
	Total Composite rate				490,665.72
					490,666
e)	Submersible PumpSet, 12.5HP				
	1. Labour				
	Plumber	8.00	Hrs @ 125.00		1,000.00
	Electrician	4.00	Hrs @ 125.00		500.00
	Electrician helper	8.00	Hrs @ 87.50		700.00
					2,200.00
	Contractor's profit & overhead		20%		440.00
	Total Labour rate				2,640.00
					2640.00
	2. Material				
	Submersible Pumpset, 12.5 HP	1.00	Nos. @ 437,447		437,446.80
	Contractor's profit & overhead		20%		87,489.36
	Total Composite rate				527,576.16
					527,576
f)	Submersible PumpSet, 15HP				
	1. Labour				
	Plumber	8.00	Hrs @ 125.00		1,000.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Electrician	4.00	Hrs @ 125.00		500.00
	Electrician helper	8.00	Hrs @ 87.50		700.00
					<u>2,200.00</u>
	Contractor's profit & overhead		20%		440.00
	Total Labour rate				<u>2,640.00</u> 2640.00
	2. Material				
	Submersible Pumpset, 15 HP	1.00	Nos. @ 489,280		489,280.05
	Contractor's profit & overhead		20%		97,856.01
	Total Composite rate				<u>589,776.06</u> 589,776
g)	Submersible PumpSet, 17.5HP				
	1. Labour				
	Plumber	8.00	Hrs @ 125.00		1,000.00
	Electrician	4.00	Hrs @ 125.00		500.00
	Electrician helper	8.00	Hrs @ 87.50		700.00
					<u>2,200.00</u>
	Contractor's profit & overhead		20%		440.00
	Total Labour rate				<u>2,640.00</u> 2640.00
	2. Material				
	Submersible Pumpset, 17.5 HP	1.00	Nos. @ 538,496		538,495.65
	Contractor's profit & overhead		20%		107,699.13
	Total Composite rate				<u>648,834.78</u> 648,835
h)	Submersible PumpSet, 20HP				
	1. Labour				
	Plumber	8.00	Hrs @ 125.00		1,000.00
	Electrician	4.00	Hrs @ 125.00		500.00
	Electrician helper	8.00	Hrs @ 87.50		700.00
					<u>2,200.00</u>
	Contractor's profit & overhead		20%		440.00
	Total Labour rate				<u>2,640.00</u> 2640.00
	2. Material				
	Submersible Pumpset, 20 HP	1.00	Nos. @ 607,368		607,368.30
	Contractor's profit & overhead		20%		121,473.66
	Total Composite rate				<u>731,481.96</u> 731,482

Item No. 27-68

Providing and fixing at Site Motor Control Panel of Golden,SM Power/SCS or approved equivalent (similar specifications), complete in all respects including all taxes.

a) Motor Control Panel, 3HP

	1. Labour				
	Electrician	2.00	Hrs @ 125.00		250.00
	Electrician helper	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u> 720.00
	2. Material				
	Motor Control Panel, 3HP	1.00	Nos. @ 2,966		2,966.25
	Contractor's profit & overhead		20%		593.25
	Total Composite rate				<u>4,279.50</u> 4,280

b) Motor Control Panel, 5.5HP

	1. Labour				
	Electrician	2.00	Hrs @ 125.00		250.00
	Electrician helper	4.00	Hrs @ 87.50		350.00
					<u>350.00</u>

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			600.00		
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Motor Control Panel, 5.5HP	1.00	Nos.	@	2,966
					2,966.25
	Contractor's profit & overhead	20%	593.25		
	Total Composite rate		4,279.50		4,280
c)	Motor Control Panel, 10HP				
	1. Labour				
	Electrician	2.00	Hrs	@	125.00
					250.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					600.00
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Motor Control Panel, 10HP	1.00	Nos.	@	3,742
					3,742.20
	Contractor's profit & overhead	20%	748.44		
	Total Composite rate		5,210.64		5,211
d)	Motor Control Panel, 15HP				
	1. Labour				
	Electrician	2.00	Hrs	@	125.00
					250.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					600.00
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Motor Control Panel, 15HP	1.00	Nos.	@	16,170
					16,170.00
	Contractor's profit & overhead	20%	3,234.00		
	Total Composite rate		20,124.00		20,124
e)	Motor Control Panel, 20HP				
	1. Labour				
	Electrician	2.00	Hrs	@	125.00
					250.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					600.00
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Motor Control Panel, 20HP	1.00	Nos.	@	22,107
					22,106.70
	Contractor's profit & overhead	20%	4,421.34		
	Total Composite rate		27,248.04		27,248
f)	Motor Control Panel, 25HP				
	1. Labour				
	Electrician	2.00	Hrs	@	125.00
					250.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					600.00
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Motor Control Panel, 25HP	1.00	Nos.	@	23,447
					23,446.50
	Contractor's profit & overhead	20%	4,689.30		
	Total Composite rate		28,855.80		28,856
g)	Motor Control Panel, 30HP				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Electrician	2.00 Hrs @	125.00			250.00
Electrician helper	4.00 Hrs @	87.50			350.00
					600.00
Contractor's profit & overhead		20%			120.00
Total Labour rate					720.00
					720.00
2. Material					
Motor Control Panel, 30HP	1.00 Nos. @	31,070			31,069.50
Contractor's profit & overhead		20%			6,213.90
Total Composite rate					38,003.40
					38,003

Item No. 27-69

Providing and fixing at Site Diesel Engine of Chief, KAM or approved equivalent (similar specifications), complete in all respects including all taxes.

a) Diesel Engine, 6 HP

1. Labour					
Electrician	1.00 Hrs @	125.00			125.00
Electrician helper	2.00 Hrs @	87.50			175.00
					300.00
Contractor's profit & overhead		20%			60.00
Total Labour rate					360.00
					360.00
2. Material					
Diesel Engine, 6 HP	1.00 Nos. @	60,000			60,000.00
Contractor's profit & overhead		20%			12,000.00
Total Composite rate					72,360.00
					72,360

b) Diesel Engine, 8 HP

1. Labour					
Electrician	3.00 Hrs @	125.00			375.00
Electrician helper	4.00 Hrs @	87.50			350.00
					725.00
Contractor's profit & overhead		20%			145.00
Total Labour rate					1,230.00
					1230.00
2. Material					
Diesel Engine, 8 HP	1.00 Nos. @	75,000			75,000.00
Contractor's profit & overhead		20%			15,000.00
Total Composite rate					91,230.00
					91,230

c) Diesel Engine, 10 HP

1. Labour					
Electrician	4.00 Hrs @	125.00			500.00
Electrician helper	6.00 Hrs @	87.50			525.00
					1,025.00
Contractor's profit & overhead		20%			205.00
Total Labour rate					1,230.00
					1230.00
2. Material					
Diesel Engine, 10 HP	1.00 Nos. @	90,000			90,000.00
Contractor's profit & overhead		20%			18,000.00
Total Composite rate					109,230.00
					109,230

d) Diesel Engine, 16 HP

1. Labour					
Electrician	4.00 Hrs @	125.00			500.00
Electrician helper	10.00 Hrs @	87.50			875.00
					1,375.00
Contractor's profit & overhead		20%			275.00
Total Labour rate					1,650.00
					1650.00
2. Material					

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
	Diesel Engine, 10 HP	1.00	Nos.	@	150,000	150,000.00
	Contractor's profit & overhead				20%	30,000.00
	Total Composite rate					181,650.00
e)	Diesel Engine, 20 HP					
	1. Labour					
	Electrician	8.00	Hrs	@	125.00	1,000.00
	Electrician helper	12.00	Hrs	@	87.50	1,050.00
						2,050.00
	Contractor's profit & overhead				20%	410.00
	Total Labour rate					2,460.00
	2. Material					
	Diesel Engine, 20 HP	1.00	Nos.	@	225,000	225,000.00
	Contractor's profit & overhead				20%	45,000.00
	Total Composite rate					272,460.00
f)	Diesel Engine, 25HP					
	1. Labour					
	Electrician	12.00	Hrs	@	125.00	1,500.00
	Electrician helper	24.00	Hrs	@	87.50	2,100.00
						3,600.00
	Contractor's profit & overhead				20%	720.00
	Total Labour rate					4,320.00
	2. Material					
	Diesel Engine, 25 HP	1.00	Nos.	@	300,000	300,000.00
	Contractor's profit & overhead				20%	60,000.00
	Total Composite rate					364,320.00
g)	Diesel Engine, 30HP					
	1. Labour					
	Electrician	24.00	Hrs	@	125.00	3,000.00
	Electrician helper	36.00	Hrs	@	87.50	3,150.00
						6,150.00
	Contractor's profit & overhead				20%	1,230.00
	Total Labour rate					7,380.00
	2. Material					
	Diesel Engine, 30 HP	1.00	Nos.	@	400,000	400,000.00
	Contractor's profit & overhead				20%	80,000.00
	Total Composite rate					487,380.00
h)	Diesel Engine, 32HP					
	1. Labour					
	Electrician	24.00	Hrs	@	125.00	3,000.00
	Electrician helper	48.00	Hrs	@	87.50	4,200.00
						7,200.00
	Contractor's profit & overhead				20%	1,440.00
	Total Labour rate					8,640.00
	2. Material					
	Diesel Engine, 32 HP	1.00	Nos.	@	450,000	450,000.00
	Contractor's profit & overhead				20%	90,000.00
	Total Composite rate					548,640.00
i)	Diesel Engine, 36HP					
	1. Labour					
	Electrician	24.00	Hrs	@	125.00	3,000.00
	Electrician helper	48.00	Hrs	@	87.50	4,200.00
						7,200.00
	Contractor's profit & overhead				20%	1,440.00
	Total Labour rate					8,640.00
	2. Material					
	Diesel Engine, 36 HP	1.00	Nos.	@	550,000	550,000.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	110,000.00		
	Total Composite rate		668,640.00		668,640
j)	Extra of Self Start Accessories with Battery (125 Amper)				
	1. Labour				
	Electrician	0.50 Hrs @	125.00		62.50
	Electrician helper	1.00 Hrs @	87.50		87.50
					150.00
	Contractor's profit & overhead	20%	30.00		
	Total Labour rate		180.00		180.00
	2. Material				
	Self Start Accessories with Battery	1.00 Nos. @	19,320		19,320.00
	Contractor's profit & overhead	20%	3,864.00		
	Total Composite rate		23,364.00		23,364
k)	Extra of Base Plate and Coupling for Diesel Engine including Belts and Brackets				
	1. Labour				
	Electrician	1.00 Hrs @	125.00		125.00
	Electrician helper	2.00 Hrs @	87.50		175.00
					300.00
	Contractor's profit & overhead	20%	60.00		
	Total Labour rate		360.00		360.00
	2. Material				
	Base Plate and Coupling for Diesel Engine including Belts and Brackets	1.00 Nos. @	15,120		15,120.00
	Contractor's profit & overhead	20%	3,024.00		
	Total Composite rate		18,504.00		18,504
	Item No. 27-70				
	Providing and fixing at Site Submersible Pumpset including Motor of KSB, Grandfos or approved equivalent (similar specifications), complete in all respects including all taxes.				
a)	Minimum Flow rate of 40 m3/h, Head of 90 m and Setting Depth of 60 m, 9 Stages + 25HP / 2P Motor				
	1. Labour				
	Plumber	4.00 Hrs @	125.00		500.00
	Electrician	2.00 Hrs @	125.00		250.00
	Electrician helper	4.00 Hrs @	87.50		350.00
					1,100.00
	Contractor's profit & overhead	20%	220.00		
	Total Labour rate		1,320.00		1320.00
	2. Material				
	9 Stages + 25HP / 2P Motor	1.00 Nos. @	2,250,000		2,250,000.00
	Contractor's profit & overhead	20%	450,000.00		
	Total Composite rate		2,701,320.00		2,701,320
b)	Minimum Flow rate of 40 m3/h, Head of 107 m and Setting Depth of 60 m, 10 Stages + 30HP / 2P Motor				
	1. Labour				
	Plumber	4.00 Hrs @	125.00		500.00
	Electrician	2.00 Hrs @	125.00		250.00
	Electrician helper	4.00 Hrs @	87.50		350.00
					1,100.00
	Contractor's profit & overhead	20%	220.00		
	Total Labour rate		1,320.00		1320.00
	2. Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)

10 Stages + 30HP / 2P Motor	1.00	Nos.	@	2,350,000	2,350,000.00
Contractor's profit & overhead				20%	470,000.00
Total Composite rate					2,821,320.00
					2,821,320

c) Minimum Flow rate of 85 m³/h, Head of 97 m and Setting Depth of 60 m, 6 Stages + 50 HP / 2P Motor

1. Labour					
Plumber	4.00	Hrs	@	125.00	500.00
Electrician	2.00	Hrs	@	125.00	250.00
Electrician helper	4.00	Hrs	@	87.50	350.00
					1,100.00
Contractor's profit & overhead				20%	220.00
Total Labour rate					1,320.00
					1320.00
2. Material					
6 Stages + 50 HP / 2P Motor	1.00	Nos.	@	2,650,000	2,650,000.00
Contractor's profit & overhead				20%	530,000.00
Total Composite rate					3,181,320.00
					3,181,320

Item No. 27-71

Providing and fixing at Site Deep Well Turbine Pump Flanged Type of KSB, Grandfos or approved equivalent (similar specifications), complete in all respects including all taxes.

a) Minimum Flow rate of 50 m³/h, Head of 46 m and Setting Depth of 18 m, 8 Stages + 15HP / 4P Motor

1. Labour					
Plumber	4.00	Hrs	@	125.00	500.00
Electrician	2.00	Hrs	@	125.00	250.00
Electrician helper	4.00	Hrs	@	87.50	350.00
					1,100.00
Contractor's profit & overhead				20%	220.00
Total Labour rate					1,320.00
					1320.00
2. Material					
8 Stages + 15HP / 4P Motor	1.00	Nos.	@	2,500,000	2,500,000.00
Contractor's profit & overhead				20%	500,000.00
Total Composite rate					3,001,320.00
					3,001,320

b) Minimum Flow rate of 70 m³/h, Head of 46 m and Setting Depth of 18 m, 10 Stages + 20HP / 4P Motor

1. Labour					
Plumber	4.00	Hrs	@	125.00	500.00
Electrician	2.00	Hrs	@	125.00	250.00
Electrician helper	4.00	Hrs	@	87.50	350.00
					1,100.00
Contractor's profit & overhead				20%	220.00
Total Labour rate					1,320.00
					1320.00
2. Material					
10 Stages + 30HP / 4P Motor	1.00	Nos.	@	2,900,000	2,900,000.00
Contractor's profit & overhead				20%	580,000.00
Total Composite rate					3,481,320.00
					3,481,320

c) Minimum Flow rate of 110 m³/h, Head of 47 m and Setting Depth of 18 m, 5 Stages + 30 HP / 4P Motor

1. Labour					
Plumber	4.00	Hrs	@	125.00	500.00
Electrician	2.00	Hrs	@	125.00	250.00
Electrician helper	4.00	Hrs	@	87.50	350.00
					1,100.00
Contractor's profit & overhead				20%	220.00
Total Labour rate					1,320.00
					1320.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	5 Stages + 30 HP / 4P Motor	1.00	Nos. @ 2,500,000	2,500,000.00	
	Contractor's profit & overhead		20%	500,000.00	
	Total Composite rate			3,001,320.00	3,001,320
d)	Minimum Flow rate of 75 m³/h, Head of 61 m and Setting Depth of 46 m, 14 Stages + 30 HP / 4P Motor				
	1. Labour				
	Plumber	4.00	Hrs @ 125.00	500.00	
	Electrician	2.00	Hrs @ 125.00	250.00	
	Electrician helper	4.00	Hrs @ 87.50	350.00	
				1,100.00	
	Contractor's profit & overhead		20%	220.00	
	Total Labour rate			1,320.00	1320.00
	2. Material				
	14 Stages + 30 HP / 4P Motor	1.00	Nos. @ 4,700,000	4,700,000.00	
	Contractor's profit & overhead		20%	940,000.00	
	Total Composite rate			5,641,320.00	5,641,320
e)	Minimum Flow rate of 220 m³/h, Head of 50 m and Setting Depth of 46 m, 4 Stages + 60 HP / 4P Motor				
	1. Labour				
	Plumber	4.00	Hrs @ 125.00	500.00	
	Electrician	2.00	Hrs @ 125.00	250.00	
	Electrician helper	4.00	Hrs @ 87.50	350.00	
				1,100.00	
	Contractor's profit & overhead		20%	220.00	
	Total Labour rate			1,320.00	1320.00
	2. Material				
	14 Stages + 30 HP / 4P Motor	1.00	Nos. @ 5,000,000	5,000,000.00	
	Contractor's profit & overhead		20%	1,000,000.00	
	Total Composite rate			6,001,320.00	6,001,320
	Item No. 27-72				
	Providing and fixing at Site Starter Switch of KSB, Grandfos or approved equivalent (similar specifications), complete in all respects including all taxes.				
a)	For 10 HP Motor				
	1. Labour				
	Plumber	1.00	Hrs @ 125.00	125.00	
	Electrician	1.00	Hrs @ 125.00	125.00	
	Electrician helper	1.00	Hrs @ 87.50	87.50	
				337.50	
	Contractor's profit & overhead		20%	67.50	
	Total Labour rate			405.00	405.00
	2. Material				
	Starter Switch 10 HP	1.00	Nos. @ 50,000	50,000.00	
	Contractor's profit & overhead		20%	10,000.00	
	Total Composite rate			60,405.00	60405.00
b)	For 15 HP Motor				
	1. Labour				
	Plumber	1.00	Hrs @ 125.00	125.00	
	Electrician	1.00	Hrs @ 125.00	125.00	
	Electrician helper	1.00	Hrs @ 87.50	87.50	
				337.50	
	Contractor's profit & overhead		20%	67.50	
	Total Labour rate			405.00	405.00
	2. Material				
	Starter Switch 15 HP	1.00	Nos. @ 60,000	60,000.00	
	Contractor's profit & overhead		20%	12,000.00	
	Total Composite rate			72,405.00	72405.00
c)	For 20 HP Motor				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	1. Labour				
	Plumber	1.00	Hrs @ 125.00		125.00
	Electrician	1.00	Hrs @ 125.00		125.00
	Electrician helper	1.00	Hrs @ 87.50		87.50
					<u>337.50</u>
	Contractor's profit & overhead		20%		67.50
	Total Labour rate				<u>405.00</u> 405.00
	2. Material				
	Starter Switch 20 HP	1.00	Nos. @ 70,000		70,000.00
	Contractor's profit & overhead		20%		14,000.00
	Total Composite rate				<u>84,405.00</u> 84405.00
d)	For 25 HP Motor				
	1. Labour				
	Plumber	1.00	Hrs @ 125.00		125.00
	Electrician	1.00	Hrs @ 125.00		125.00
	Electrician helper	1.00	Hrs @ 87.50		87.50
					<u>337.50</u>
	Contractor's profit & overhead		20%		67.50
	Total Labour rate				<u>405.00</u> 405.00
	2. Material				
	Starter Switch 25 HP	1.00	Nos. @ 80,000		80,000.00
	Contractor's profit & overhead		20%		16,000.00
	Total Composite rate				<u>96,405.00</u> 96405.00
e)	For 30 HP Motor				
	1. Labour				
	Plumber	1.00	Hrs @ 125.00		125.00
	Electrician	1.00	Hrs @ 125.00		125.00
	Electrician helper	1.00	Hrs @ 87.50		87.50
					<u>337.50</u>
	Contractor's profit & overhead		20%		67.50
	Total Labour rate				<u>405.00</u> 405.00
	2. Material				
	Starter Switch 30 HP	1.00	Nos. @ 85,000		85,000.00
	Contractor's profit & overhead		20%		17,000.00
	Total Composite rate				<u>102,405.00</u> 102405.00
f)	For 40 HP Motor				
	1. Labour				
	Plumber	1.00	Hrs @ 125.00		125.00
	Electrician	1.00	Hrs @ 125.00		125.00
	Electrician helper	1.00	Hrs @ 87.50		87.50
					<u>337.50</u>
	Contractor's profit & overhead		20%		67.50
	Total Labour rate				<u>405.00</u> 405.00
	2. Material				
	Starter Switch 40 HP	1.00	Nos. @ 90,000		90,000.00
	Contractor's profit & overhead		20%		18,000.00
	Total Composite rate				<u>108,405.00</u> 108405.00
g)	For 60 HP Motor				
	1. Labour				
	Plumber	1.00	Hrs @ 125.00		125.00
	Electrician	1.00	Hrs @ 125.00		125.00
	Electrician helper	1.00	Hrs @ 87.50		87.50
					<u>337.50</u>
	Contractor's profit & overhead		20%		67.50
	Total Labour rate				<u>405.00</u> 405.00
	2. Material				
	Starter Switch 60 HP	1.00	Nos. @ 120,000		120,000.00
	Contractor's profit & overhead		20%		24,000.00
	Total Composite rate				<u>144,405.00</u> 144405.00

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 28-1-1

Sq.m. Providing and fixing hot dipped galvanized fully glazed steel door with frame single leaf galvanized steel bottom or kick rail 6" (150mm) wide and top rail 4" (100mm), width of Z-section 1.25" (30mm) at each edge using approved brass section oxidized fittings, iron lugs, including cutting holes galvanizing and cost of fabrication and making good the damages to walls.

Considering a door 2'- 6" x 7'-0"	17.00	Sq.ft.				
1. Labour						
Mason	2.00	Hrs	@	125.00	250.00	
Glazier	2.50	Hrs	@	125.00	312.50	
Black smith	6.00	Hrs	@	112.00	672.00	
Welder	8.00	Hrs	@	125.00	1,000.00	
Labourer	6.40	Hrs	@	87.50	560.00	
					<u>2,794.50</u>	
Contractor's profit & overhead				20%	558.90	
Total Labour rate					<u>2,122.50</u>	2,123
2. Material						
Door with frame, single leaf, 2.5' x 7'	17.50	Sq.ft	@	450.00	7,875.00	A
Other materials						
Glass 5 mm thick plain (local)	16.70	Sq.ft	@	120.00	2,004.00	
Clamp screw	60.00	No.	@	8.40	504.00	
Oil putty	0.05	Kg.	@	90.00	4.08	
Wood - Partal	1.90	Cu.ft	@	1200.00	2,280.00	
Mortar 1 : 4	1.00	Cu.ft	@	137.05	137.05	
					<u>4,929.13</u>	B
Total A + B					12,804.13	
Contractor's profit & overhead				20%	2,560.83	
Total Composite rate					<u>11,847.62</u>	11,848

Item No. 28-2-1

Sq.m. Description same as in Item No. 28-1-1 but with double leaf fully glazed door with frame

Considering a door 4'- 0" x 7'-0"	28.00	Sq.ft.				
1. Labour						
Mason	2.00	Hrs	@	125.00	250.00	
Glazier	4.00	Hrs	@	125.00	500.00	
Black smith	8.00	Hrs	@	112.00	896.00	
Welder	13.13	Hrs	@	125.00	1,641.25	
Labourer	8.00	Hrs	@	87.50	700.00	
					<u>3,987.25</u>	
Contractor's profit & overhead				20%	797.45	
Total Labour rate					<u>1,838.69</u>	1,839
2. Material						
Door with frame, double leaf 4' x 7'	28.00	Sq.ft		450.00	12,600.00	A
Other materials						
Glass 5 mm thick plain (local)	20.00	Sq.ft	@	120.00	2,400.00	
Clamp screw	100.00	No.	@	8.40	840.00	
Oil putty	0.15	Kg.	@	90.00	13.47	
Wood - Partal	0.04	Cu.ft	@	1200.00	48.00	
Mortar 1 : 4	0.30	Cu.ft	@	137.05	41.12	
					<u>3,342.59</u>	B
Total A + B					15,942.59	
Contractor's profit & overhead				20%	3,188.52	
Total Composite rate					<u>9,190.50</u>	9,191

Item No. 28-3-1

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)

Sq.m. Providing and fixing fully glazed steel door with frame single leaf with M.S bottom or kick rail 6" (150mm) wide and top rail of 4" (100mm) wide painted with two coats of red oxide paint, brass oxidized fittings of lugs, cutting holed, and making good the damages to walls.

Considering a door 2'- 6" x 7'-0"	17.50	Sq.ft.			
1. Labour					
Total Labour rate	Same as in item 28.1-1			2,122.50	2,123
2. Material					
Door with frame, single leaf, 2.5' x 7'	12.00	Sq.ft	@ 450.00	5,400.00	A
Other materials					
Same as in item 28-1				12,804.13	B
Total A + B				18,204.13	
Contractor's profit & overhead			20%	3,640.83	
Total Composite rate				4,473.02	4,473

Item No. 28- 4-1

Sq.m. Description same as in Item No. 28-3-1 but with double leaf fully glazed door with frame

Considering a door 4'- 0" x 7'-0"	28.00	Sq.ft.			
1. Labour					
Total Labour rate	Same as in item 28-2-1			1,838.70	1,839
2. Material					
Door with frame, double leaf 4' x 7'	19.10	Sq.ft	450.00	8,595.00	A
Other materials					
Same as in item 28-2				3,342.59	B
Total A + B				11,937.59	
Contractor's profit & overhead			20%	2,387.52	
Total Composite rate				7,343.63	7,344

Item No. 28- 5-1

Sq.m. Providing and fixing single leaf steel door with frame fully panelled with M.S sheet 16 gauge (1.59mm) painted with two coats of red oxide paint with brass fitting of approved make including cost of fabrication, iron lugs, cutting holes and making good the damages to walls.

Considering a door 2'- 6" x 7'-0"	17.50	Sq.ft.			
1. Labour					
Mason	2.00	Hrs	@ 125.00	250.00	
Black smith	7.00	Hrs	@ 112.00	784.00	
Welder	8.00	Hrs	@ 125.00	1,000.00	
Labourer	2.55	Hrs	@ 87.50	223.13	
Total				2,257.13	
Contractor's profit & overhead			20%	451.43	
Total Labour rate				291.44	291
2. Material					
Door with frame, single leaf, 2.5' x 7'	13.71	Sq.ft	@ 450.00	6,169.50	
Mortar 1 : 4	0.25	Cu.ft	@ 137.05	34.26	
Total				6,203.76	
Contractor's profit & overhead			20%	1,240.75	
Total Composite rate				1,092.47	1,092

Item No. 28- 6

Sq.m. Description same as in Item No. 28-5-1 but with double leaf door with frame

Considering a door 4'- 0" x 7'-0"	28.00	Sq.ft.			
1. Labour					

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Mason	2.50	Hrs @ 125.00	312.50
	Black smith	8.00	Hrs @ 112.00	896.00
	Welder	15.00	Hrs @ 125.00	1,875.00
	Labourer	6.35	Hrs @ 87.50	555.63
				<u>3,639.13</u>
	Contractor's profit & overhead		20%	727.83
	Total Labour rate			<u>1,678.16</u>
				1,678
	2. Material			
	Door with frame, double leaf 4' x 7'	22.35	Sq.ft @ 450.00	10,057.50
	Mortar 1 : 4	0.35	Cu.ft @ 137.05	47.97
	Total			<u>10,105.47</u>
	Contractor's profit & overhead		20%	2,021.09
	Total Composite rate			<u>6,338.21</u>
				6,338
	Item No. 28-7-1			
Sq.m.	Providing and fixing hot dipped Galvanised single leaf steel door with 2" x 2" x 1/4" frame fully panelled with 16 gauge (1.59mm) G.I. sheet with brass fitting of approved make including cost of fabrication, iron lugs, cutting holes and making good the damages to walls.			
	Considering a door 2'- 6" x 7'-0"	17.50	Sq.ft.	
	1. Labour			
	Total Labour rate Same as in item 28-5-1			291.45
				291
	2. Material			
	Door with frame, single leaf, 2.5' x 7'	15.00	Sq.ft @ 450.00	6,750.00
	Mortar 1 : 4	0.25	Cu.ft @ 137.05	34.26
	Total			<u>6,784.26</u>
	Contractor's profit & overhead		20%	1,356.85
	Total Composite rate			<u>1,167.43</u>
				1,167
	Item No. 28- 8-1			
Sq.m.	Description same as in Item No. 28-7-1 but with double leaf door with frame			
	Considering a door 4'- 0" x 7'-0"	28.00	Sq.ft.	
	1. Labour			
	Total Labour rate Same as in item 28-6-1			1,678.15
				1,678
	2. Material			
	Door with frame, double leaf 4' x 7'	21.62	Sq.ft @ 450.00	9,729.00
	Mortar 1 : 4	0.35	Cu.ft @ 137.05	47.97
	Total			<u>9,776.97</u>
	Contractor's profit & overhead		20%	1,955.39
	Total Composite rate			<u>6,186.73</u>
				6,187
	Item No. 28- 9-1			
Sq.m.	Description same as in Item No. 28-7-1 but with 2" x 2" x 1/4" frame partly glazed (using 5mm glass sheet) and partly panelled with G.I sheet of approved section			
	Considering a door 2'- 6" x 7'-0"	17.50	Sq.ft.	
	1. Labour			
	Mason	2.00	Hrs @ 125.00	250.00
	Glazier	2.50	Hrs @ 125.00	312.50
	Black smith	6.00	Hrs @ 112.00	672.00
	Welder	8.56	Hrs @ 125.00	1,070.00
	Labourer	6.50	Hrs @ 87.50	568.75
				<u>2,873.25</u>
	Contractor's profit & overhead		20%	574.65

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Labour rate		2,119.97	2,120
	2. Material			
	Door with frame, single leaf, 2.5' x 7'	17.50	Sq.ft @ 450.00	7,875.00 A
	Other materials			
	Glass 5 mm thick plain (local)	9.63	Sq.ft @ 120.00	1,155.60
	Clamp screw	60.00	No. @ 8.40	504.00
	Oil putty	0.05	Kg. @ 90.00	4.08
	Wood - Partal	0.02	Cu.ft @ 1200.00	24.00
	Mortar 1 : 4	0.25	Cu.ft @ 137.05	34.26
				1,721.95 B
	Total A + B			9,596.95
	Contractor's profit & overhead		20%	1,919.39
	Total Composite rate			9,200.87 9,201

Item No. 28-10-1

Sq.m. Description same as in Item No. 28-9-1 but with frame 2.5" x 2" x 1/4" partly and partly panelled with G.I. sheet

	Considering a door 4'- 0" x 7'-0"	28.00	Sq.ft.		
	1. Labour				
	Mason	2.00	Hrs @ 125.00	250.00	
	Glazier	4.00	Hrs @ 125.00	500.00	
	Black smith	8.00	Hrs @ 112.00	896.00	
	Welder	14.13	Hrs @ 125.00	1,766.25	
	Labourer	6.50	Hrs @ 87.50	568.75	
				3,981.00	
	Contractor's profit & overhead		20%	796.20	
	Total Labour rate			1,835.81	1,836
	2. Material				
	Door with frame, double leaf 4' x 7'	28.00	Sq.ft @ 450.00	12,600.00 A	
	Other materials				
	Glass 5 mm thick plain (local)	16.50	Sq.ft @ 120.00	1,980.00	
	Clamp screw	100.00	No. @ 8.40	840.00	
	Oil putty	0.11	Kg. @ 90.00	10.21	
	Wood - Partal	0.03	Cu.ft @ 1200.00	36.00	
	Mortar 1 : 4	0.35	Cu.ft @ 137.05	47.97	
				2,914.17 B	
	Total A + B			15,514.17	
	Contractor's profit & overhead		20%	3,102.83	
	Total Composite rate			8,990.06 8,990	

Item No. 28-11-1

Sq.m. Description same as in item 28-5-1 but with frame (1.5"x1.5"x1/4") partly glazed (using 5mm glass sheet) and partly panelled of approved section with M.S. plate.

	Considering a door 2'- 6" x 7'-0"	17.50	Sq.ft.		
	1. Labour				
	Total Labour rate	Same as in item 28- 9-1		2,119.95	2,120
	2. Material				
	Door with frame, single leaf, 2.5' x 7'	12.85	Sq.ft @ 450.00	5,782.50	
	Other materials	Same as in item 28- 9-1		1,721.95	
	Total			7,504.45	
	Contractor's profit & overhead		20%	1,500.89	
	Total Composite rate			7,656.94 7,657	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 28-12-1

Sq.m. Description same as in item 28-6 but with frame (1.5"x1.5"x1/4") partly glazed (using 5mm glass sheet) and partly panelled of approved section with M.S. plate.

Considering a door 4'- 0" x 7'-0"	28.00	Sq.ft.		
1. Labour				
Total Labour rate	Same as in item 28- 10-1		1,835.80	1,836
2. Material				
Door with frame, double leaf 4' x 7'	21.32	Sq.ft @ 450.00	9,594.00	
Other materials	Same as in item 28- 10-1		2,914.17	
Total			12,508.17	
Contractor's profit & overhead		20%	2,501.63	
Total Composite rate			7,603.86	7,604

Item No. 28-13-1

Sq.m Providing and fixing M.S. sheet shutters with 2" x 2" x 1/4" angle iron frame as diagonal braces, gun metal roller and pulleys, angle iron top guides fixed to T-iron bottom track fixed in cement concrete 1:2:4 with rag bolts including locking arrangement and handles as per design and instructions of the Engineer incharge.

Considering a gate of 8 - 6" x 9'	76.50	Sq.ft.		
Material				
Angle iron	2.5"x2.5"x0.25"			
Vertical pieces	4 x 8.30	33.20		
Horizontal pieces	4 x 3.83	15.32		
		48.52	R.ft.	
Horizontal piece T-	2"x 2" x0.25 x 2 x 3.83	7.66	R.ft.	
Diagonal flat iron	4 x 5.42	21.68	R.ft.	
Guide angle	2 x17.5	35.00	R.ft.	
M.S. plate 1/6" thick	2 x 17.5 x 0.58	20.30	Sq.ft.	
Bifurcated hold fast of 3" wide and 1/4" thick				
M.S.sheet @ 2' c/c	9 x 1.33 x 0.25	2.99	Sq.ft.	
Channel for pully	4 x 8"	2.67	R.ft.	
T-iron track	1 x 17.6	17.50	Sq.ft.	
Rag bolts 1/2" dia 6" long at 3.0' centre		14.00	Nos.	
Gusset plate 1/4"	16x 5.5" x 5.5"	3.36	Sq.ft.	
Steel pully with ball bearing 4" dia		4.00	Nos.	
Axle bolt 3/4" dia and 4" long		4.00	Nos.	
Gun metal bush ring with accessories on top		4.00	Nos.	
M.S.handle 6"size	2 x 1-3"	2.50	R.ft.	
M.S. lock plate1/4" th.	3" x 3" x 2 Nos.	0.13	Sq.ft.	
M.S. sheet 1/16" thick	8.46 x 8.30	70.22	Sq.ft.	
M.S. sliding bolt 1" dia and hook		1.50	R.ft.	
Red oxide paint	2.25 x 77.35	174.04	Sq.ft.	
Cement concrete	26 x 0.75 x 1	19.50	Cu.ft.	
Material weight				
Angle iron	48.52 x 1.05 x 4.04	205.82	Lbs.	
T-iron	7.06 x 1.05 x 3.19	23.65	Lbs.	
Flat iron	21.68 x 1.05 x 4.04	91.97	Lbs.	
Guide angle	35 x 1.05 x 4.04	148.47	Lbs.	
T-iron track	18.38 x 1.05 x 9.38	181.02	Lbs.	
		650.93	Lbs.	= 295.26 Kgs.
M.S. Plate	20.3 x 1.05 x 2.55	54.35	Lbs.	
M.S. sheet	2.99 x 1.05 x 10.2	32.02	Lbs.	
Gusset plate 1/4"	3.36 x 1.05 x 10.2	35.99	Lbs.	
M.S. sheet 1/16" thick	70.22 x 1.05 x 2.55	188.01	Lbs.	
		310.38	Lbs.	= 140.79 Kgs.

Unit	Description				Component Cost		Unit Rate
					(Rs)	(Rs)	(Rs)
Channel for pully	2.67 x 1.05 x 10.2	28.60	Lbs.	=	12.97	Kgs.	
Bolts							
Rag bolts	14 x 0.5	7.00	Lbs.				
Axle bolt	4 x 0.95	3.80	Lbs.				
M.S. lock.	0.125 x 10.25	1.28	Lbs.				
		<u>12.08</u>	Lbs.	=	5.48	Kgs.	
Steel pully	4 Nos. @490lbs/Cu.ft.	26.18	Lbs.	=	11.88	Kgs.	
M.S. rod							
M.S.hand. 6"size	2.5 x 2.67	6.68	Lbs.				
M.S. sliding bolt	1.5 x 2.67	4.01	Lbs.				
		<u>10.68</u>	Lbs.	=	4.84	Kgs.	
Gun metal bush ring							
Gun metal bush	4 x 3.25	13.00	Lbs.	=	5.90	Kgs.	
1. Labour							
Black smith		28.00	Hrs	@	112.00	3,136.00	
Mason		4.00	Hrs	@	125.00	500.00	
Hammer man		16.00	Hrs	@	87.50	1,400.00	
Welder		16.00	Hrs	@	125.00	2,000.00	
Labourer		28.00	Hrs	@	87.50	2,450.00	
Bellow boy		28.00	Hrs	@	87.50	2,450.00	
						<u>11,936.00</u>	
Contractor's profit & overhead					20%	2,387.20	
Total Labour rate						<u>2,014.61</u>	2,015
2. Materials							
Angle iron		226.00	Kg.	@	74.00	16,724.00	
M.S. plate		140.79	Kg	@	85.00	11,966.77	
Channel iron		12.97	Kg.	@	77.00	998.76	
Bolts & Nuts		5.48	Kg.	@	90.00	493.20	
Pully		11.88	Kg.	@	23.00	273.13	
M.S. rod		4.84	Kg	@	55.00	266.44	
Bushing (Gun metal)		5.90	Kg.	@	18.00	106.14	
Paint red oxide primer		1.00	Litre	@	208.00	208.00	
Concrete 1:2:4	Rate as per item 5-17(a)1	0.35	Cu.m.	@	8338.90	2,918.61	
						<u>33,955.06</u>	
3. Plant & Equipment							
Welding plant		2.00	Hrs	@	125.00	250.00	
						<u>34,205.06</u>	
Contractor's profit & overhead					20%	6,841.01	
Total Composite rate						<u>7,787.89</u>	7,788

Item No. 28-14-1

Sq.m Description same as in Item No. 28-13-1 but with G.I. corrugated sheet shutters.

Detail of cost for 76.5 Sq. ft. area

Materials

Angle iron	48.52 x 1.05 x 4.04	205.82	Lbs.			
T-iron	7.06 x 1.05 x 3.19	23.65	Lbs.			
Flat iron	21.68 x 1.05 x 4.04	91.97	Lbs.			
Guide angle	35 x 1.05 x 4.04	148.47	Lbs.			
T-iron track	18.38 x 1.05 x 9.38	181.02	Lbs.			
		<u>650.93</u>	Lbs.	=	295.26	Kgs.
M.S. Plate						
M.S.Plates	20.3 x 1.05 x 2.55	54.35	Lbs.			
M.S.sheet	2.99 x 1.05 x 10.2	32.02	Lbs.			
Gusset plate 1/4"	3.36 x 1.05 x 10.2	35.99	Lbs.			
		<u>122.36</u>	Lbs.	=	55.50	Kgs.
Channel for pully	2.67 x 1.05 x 10.2	28.60	Lbs.	=	12.97	Kgs.
Bolts						
Rag bolts	14 x 0.5	7.00	Lbs.			

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Axle bolt	4 x 0.95	3.80	Lbs.		
arrangement	0.125 x 10.25	1.28	Lbs.		
		12.08	Lbs.	=	5.48 Kgs.
Steel pully	4 Nos. @490lbs/Cu.ft.	26.18	Lbs.	=	11.88 Kgs.
M.S. rod					
M.S.hand. 6"size	2.5 x 2.67	6.68	Lbs.		
M.S. sliding bolt	1.5 x 2.67	4.01	Lbs.		
		10.68	Lbs.	=	4.84 Kgs.
Gun metal bush	4 x 3.25	13.00	Lbs.	=	5.90 Kgs.
G.I. Corrugated sheet	70.5 x 1.05 x 2.74	202.83	Lbs.	=	92.00 Kgs.
1. Labour					
Black smith		30.00	Hrs	@	112.00 3,360.00
Mason		4.00	Hrs	@	125.00 500.00
Hammer man		16.00	Hrs	@	87.50 1,400.00
Welder		16.00	Hrs	@	125.00 2,000.00
Labourer		30.00	Hrs	@	87.50 2,625.00
Bellow boy		30.00	Hrs	@	87.50 2,625.00
					12,510.00
Contractor's profit & overhead				20%	2,502.00
Total Labour rate					2,111.49
2,112					
2. Materials					
G.I. sheet corrugated		92.00	Kg.	@	150.00 13,800.36
Angle iron		124.00	Kg.	@	74.00 9,176.00
M.S. plate		55.50	Kg.	@	85.00 4,717.75
Channel iron		12.97	Kg.	@	77.00 998.76
Bolts & Nuts		5.48	Kg.	@	90.00 493.20
Pully		11.88	Kg.	@	23.00 273.13
M.S. rod		4.84	Kg.	@	55.00 266.44
Bushing (Gun metal)		5.90	Kg.	@	18.00 106.14
Paint red oxide primer		0.50	Litre	@	208.00 104.00
Concrete 1:2:4	Rate as per item 5-17(a)1	0.35	Cu.m.	@	8338.90 2,918.61
Total					32,854.40
3. Plant & Equipment					
Welding plant		2.00	Hrs	@	125.00 250.00
Total					33,104.40
Contractor's profit & overhead				20%	6,570.88
Total Composite rate					7,691.96
7,692					
Item No. 28-15-1					
Kg.	Providing and fixing 18 guage (1.41 mm) G.I. sheet pipe shaft 2" (50 mm) dia. with laths, 1/8" (3 mm) guide channel, 2" x 22" x 1" rolling shutter with all accessories and fittings encased in G.I. sheet hose with brackets including arrangement for inside and outside locking with operation handles cutting holes, painting with two coats of red oxide paint on M.S sections and making good the damage to walls as per design and instructions of the Engineer Incharge.				
Detail of cost for 155 Kgs.					
1. Labour					
Black smith		10.00	Hrs	@	112.00 1,120.00
Mason		35.00	Hrs	@	125.00 4,375.00
Hammer man		10.00	Hrs	@	87.50 875.00
Labourer		10.00	Hrs	@	87.50 875.00
					7,245.00
Contractor's profit & overhead				20%	1,449.00
Total Labour rate					56.09
56					
2. Materials					
Rolling shutter		228.00	Kg.	@	125.00 28,500.00
Mortar 1 : 4		1.50	Cu.ft.	@	137.05 205.58
					28,705.58

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	5,741.12	
Total Composite rate		<u>278.33</u>	278

Item No. 28-16-1

Kg. Providing and fixing rolling shutters of 1/2" dia. M.S. bars mesh 4" x 4" with all accessories and fittings encased in G.I. box with brackets, arrangement for inside and outside locking with operation handles, cutting holes, painting two coats of red oxide paint on M.S. section and making good the damages to walls as per instructions of Engineer Incharge.

Details of cost for 155 kg.

1. Labour

Total Labour rate	Same as in item 28-15 -1	56.10	56
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2. Materials

Rolling shutter M.S. bars	189.00	Kg.	@	90.00	17,010.00
Mortar 1 : 4	1.50	Cu.ft..	@	137.05	205.58

17,215.58

Contractor's profit & overhead	20%	3,443.12	
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Total Composite rate		<u>189.38</u>	189
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Item No. 28-17-1

Sq.m. Providing and fixing collapsible steel shutter or gate with vertical channels, flat iron diagonal, top and bottom rail with steel rollers of required size, T-iron bottom track riveting the junctions, including locking arrangement and handles, cutting holes, painting two coats of red oxide paint, fixing bottom track with cement concrete 1:2:4 and making good the damages to walls fabrication as designed and erection as per instructions of the Engineer Incharge.

Detail of cost for 7.5 Sq. m.

1. Labour

Black smith	11.46	Hrs	@	112.00	1,283.52
Mason	10.00	Hrs	@	125.00	1,250.00
Hammer man	8.00	Hrs	@	87.50	700.00
Labourer	10.00	Hrs	@	87.50	875.00

4,108.52

Contractor's profit & overhead	20%	821.70	
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Total Labour rate		<u>657.36</u>	657
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2. Materials

Steel gate, collapsible	3.59	Sq.m.	@	3000.00	10,755.00
Mortar 1 : 4	1.50	Cu.ft..	@	137.05	205.58
Concrete 1:2:4	Rate as per item 5-17(a)1	0.30	Cu.m.	@	8338.90

2,501.67

13,462.25

Contractor's profit & overhead	20%	2,692.45	
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Total Composite rate		<u>2,811.31</u>	2,811
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Item No. 28-18-1

Sq.m Providing and fixing steel gate of flat iron sections of approved design with or without M.S. sheet covering including hold fast with or without roller and track arrangement including providing wicket shutter of required size with all accessories and locking arrangement as per direction of the Engineer Incharge.

Detail of cost for 120 Sq.ft.

Considering a mild steel gate 16' wide and 7-6" high having outer frame work of 1.5" and 1" square rods besides internal framing of flat iron 1"x 3/16" in panels of 1'-10" x 1'-8" and rectangular intercepts of flat iron with steel section as per above description. The whole is covered with 1/16" thick M.S. sheet panelled between square rod frame work.

Materials

Ver. sq.rod 1.5"x1.5"	2 x 7.67 x 7.65	117.35	Lbs.
Ver. sq.rod 1" x 1"	2 x 7.29 x 3.4	49.57	Lbs.

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Hor. Sq. rod 1" x 1"	4 x 7.79 x 3.4	105.94	Lbs.		
		272.87	Lbs.	=	123.77 Kg
Vertical flat iron 1" x 3/16"					
Main gate	5 x 7	35.00	Sq.ft.		
Main gate	1 x 3.46	3.46	Sq.ft.		
Wicket gate	3 x 3.17	9.51	Sq.ft.		
Horizontal					
Main gate	5 x 7.54	37.70	Sq.ft.		
Main gate	1 x 3.77	3.77	Sq.ft.		
Wicket gate	3 x 3.60	10.80	Sq.ft.		
Total		100.24	Sq.ft.		
	100.24 x 0.638	63.95	Lbs.	=	29.01 Kg
Flat iron 3/4" x 3/16"					
Intercept	2 x 32(1.0 +1.04)	130.56	Sq.ft.		
Vertical	2 x 32 x 0.25	16.00	Sq.ft.		
Horizontal	2 x 32 x 0.45	28.80	Sq.ft.		
Total		175.36	Sq.ft.		
	175.36 x 0.479	84.00	Lbs.	=	38.10 Kg
Flat 1.5" x 0.25"	3 x 3 x 2	18.00	Sq.ft.		
	18 x 1.28	23.04	Lbs.	=	10.45 Kg
Iron piece with rivet	3x 2 x 0.12x 0.12x 0.25	0.02	Cu.ft.		
	0.02 x 490 lbs	9.80	Lbs.	=	4.45 Kg
1" dia. sliding bolt	2 x 1-8" x 2.67	8.92	Lbs.	=	4.05 Kg
Locking flat 2"x.25"	2 x 0-8" x 1.7	2.28	Lbs.	=	1.03 Kg
Sliding rod 1" dia	2 x 1-0 x 1.50	3.00	Lbs.		
Locking flat 1.50"x.25"	2 x 0-6 x 1.28	1.28	Lbs.		
Hinges 4" size 2 Nos.		0.64	Lbs.		
3/16" th.gusset	1/2 x 4 x 2" x 2" x7.65	0.43	Lbs.		
Pivoting socket	2 x 2" x 2" x 4"	33.00	Lbs.		
Flat iron 1" x 3/16" th.	2 x 2' x 4" x 0.638	0.85	Lbs.		
Roller with axle rod 2x22/7x1/4(1/4(2))x4.33x490		16.04	Lbs.		
T-iron track	2 x 9" x 16.85 x 11.03	278.78	Lbs.		
Stopper peg Flat	2 x 2 x 1.5 x 2.65	15.90	Lbs.		
Pinning bolt 3/4" dia	2 x 0.868	1.74	Lbs.		
M.S. sheet 1/16" thick	2 x 7.79 x 7 x 2.55	278.10	Lbs.		
		629.76	Lbs.	=	285.66 Kg
Total					496.51 Kg
Wastage 5%					14.28 Kg
					<u>510.80</u> Kg
1. Labour					
Black smith	0.50	Hrs	@	112.00	56.00
Mason	1.30	Hrs	@	125.00	162.50
Hammer man	0.50	Hrs	@	87.50	43.75
Welder	1.00	Hrs	@	125.00	125.00
Helper	0.50	Hrs	@	75.00	37.50
Labourer	1.00	Hrs	@	87.50	87.50
Bellow boy	0.00	Hrs	@	87.50	-
Bahishti	0.00	Hrs	@	87.50	-
Mistri	0.00	Hrs	@	110.00	-
					<u>512.25</u>
Contractor's profit & overhead				20%	102.45
Total Labour rate					<u>55.12</u>
2. Materials					
M.S. section	0.50	Kg.	@	80.00	40.00
Paint red oxide primer	0.015	Litre	@	208.00	3.12

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Mortar 1 : 4	0.02	Cu.ft. @ 137.05	2.06
	Concrete 1:2:4	0.002	Cu.m. @ 8338.90	13.34
				58.52
	3. Plant & Equipment			
	Welding plant	0.50	Hrs @ 125.00	62.50
				121.02
	Contractor's profit & overhead		20%	11.70
	Total Composite rate			187.82
				188
	Item No. 28-19-1			
Sq.m.	Providing and fixing hot dipped galvanized fully glazed fixed steel sky light of Z section 1.25" (32.5 mm) width or as approved by Engineer incharge including iron lugs, cutting holes and making good the damages to walls.			
	Considering a sky 1.75 x 4.0	7.00	Sq.ft.	
	1. Labour			
	Mason	1.50	Hrs @ 125.00	187.50
	Glazier	1.00	Hrs @ 125.00	125.00
	Labourer	4.00	Hrs @ 87.50	350.00
				662.50
	Contractor's profit & overhead		20%	132.50
	Total Labour rate			1,222.03
				1,222
	2. Materials			
	Skylight frame, Steel	7.00	Sq.ft. @ 240.00	1,680.00 A
	Other materials			
	Glass 5 mm thick plain (local)	5.00	Sq.ft. @ 120.00	600.00
	Clamp screw	70.00	No. @ 8.40	588.00
	Oil putty	0.10	Kg. @ 90.00	9.00
	Wood - Partal	0.30	Cu.ft. @ 1200.00	360.00
	Mortar 1 : 4	0.17	Cu.ft. @ 137.05	23.30
				1,580.30 B
	Total A + B			3,260.30
	Contractor's profit & overhead		20%	652.06
	Total Composite rate			7,235.90
				7,236
	Item No. 28- 20-1			
Sq.m.	Providing and fixing hot dipped galvanized fully glazed single leaf hung steel windows and ventilators of approved section with Z-section 1.25" (32mm) width at each edge including using approved brass sections oxidized fittings, iron lugs, cutting holes and making good the damages to walls.			
	Considering a window 1.75 x 4.0	7.00	Sq.ft.	
	1. Labour			
	Total Labour rate	Same as in item 28-19-1		1,222.05
				1,222
	2. Materials			
	Window frame, steel - hunged	7.00	Sq.ft. @ 145.00	1,015.00
	Glass 5 mm thick plain (local)	6.42	Sq.ft. @ 120.00	770.40
	Clamp screw	140.90	No. @ 8.40	1,183.56
	Oil putty	0.03	Kg. @ 90.00	2.45
	Wood - Partal	0.01	Cu.ft. @ 1200.00	12.00
	Mortar 1 : 4	0.17	Cu.ft. @ 137.05	23.30
				3,006.71
	Contractor's profit & overhead		20%	601.34
	Total Composite rate			6,768.14
				6,768
	Item No. 28- 21-1			
Sq.m.	Providing and fixing hot dipped galvanized fully glazed double leaf hung steel windows and ventilators of approved section with Z-section 1.25" (32 mm) width at each edge			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)

including using approved brass sections oxidized fitting, iron lugs, cutting holes and making good the damages to walls.

Considering a window 3' x 4'	12.00	Sq.ft.				
1. Labour						
Mason	1.50	Hrs	@	125.00	187.50	
Glazier	1.50	Hrs	@	125.00	187.50	
Labourer	2.76	Hrs	@	87.50	241.50	
					<u>616.50</u>	
Contractor's profit & overhead				20%	123.30	
Total Labour rate					<u>663.35</u>	663
2. Materials						
Window frame, steel - hunged	12.00	Sq.ft.	@	145.00	1,740.00	A
Other materials						
Glass 5 mm thick plain (local)	38.20	Sq.ft.	@	120.00	4,584.00	
Clamp screw	70.00	No.	@	8.40	588.00	
Oil putty	0.04	Kg.	@	90.00	3.27	
Wood - Partal	0.02	Cu.ft	@	1200.00	24.00	
Mortar 1 : 4	0.25	Cu.ft	@	137.05	34.26	
					<u>5,233.53</u>	B
Total A + B					<u>6,973.53</u>	
Contractor's profit & overhead				20%	1,394.71	
Total Composite rate					<u>8,166.87</u>	8,167

Item No. 28- 22-1

Sq.m. Providing and fixing hot dipped galvanized fully glazed partly fixed and partly hung steel windows and ventilators with Z-section 1.25" (32 mm) width or as approved by Engineer incharge including using approved brass section oxidized fittings, iron lugs, cutting holes and making good the damages to walls

Considering a window 3' x 4'	12.00	Sq.ft.				
1. Labour						
Total Labour rate	Same as in item 28-21-1				663.35	663
2. Materials						
Window frame, steel - partly fixed & partly hung	9.10	Sq.ft.	@	125.00	1,137.50	
Other materials	Same as in item 28-21-1				5,233.53	
Total					<u>6,371.03</u>	
Contractor's profit & overhead				20%	1,274.21	
Total Composite rate					<u>7,518.58</u>	7,519

Item No. 28- 23-1

Sq.m. Providing and fixing fully glazed fixed aluminium sky light of economy section 1.3 mm. or as approved by Engineer incharge including lugs, cutting holes and making good the damages to walls.

Considering a sky 1.75 x 4.0	7.00	Sq.ft.				
1. Labour						
Total Labour rate	Same as in item 28-21-1				663.35	663
2. Materials						
Skylight frame, Aluminium - fixed	7.00	Sq.ft.	@	420.00	2,940.00	A
Other materials						
Glass 5 mm thick plain (local)	5.76	Sq.ft.	@	120.00	691.20	
Rubber packing	0.50	Sq.ft.	@	20.90	10.45	
Mortar 1 : 4	0.17	Cu.ft	@	137.05	23.30	
					<u>724.95</u>	B
Total A + B					<u>3,664.95</u>	
Contractor's profit & overhead				20%	732.99	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Total Composite rate		7,423.61	7,424
	Item No. 28- 24-1			
Sq.m.	Providing and fixing fully glazed single leaf hung/sliding aluminium windows, ventilators (Deluxe model - 1.6mm) of anodized champagne or approved color of Prime, Chawala, Pakistan Cable or any approved section as approved by Engineer incharge including aluminium fittings, 5 mm local tinted glass, lugs, cutting holes and making good the damages to walls.			
	Considering a window 1.75 x 4.0	7.00	Sq.ft.	
	1. Labour			
	Total Labour rate Same as in item 28-21-1			663
	2. Materials			
	Window, aluminium - hung or sliding	6.13	Sq.ft. @ 550.00	3,371.50 A
	Other materials			
	Glass 5 mm thick tinted (local)	7.00	Sq.ft. @ 165.00	1,155.00
	Rubber packing	0.50	Sq.ft. @ 20.90	10.45
	Mortar 1 : 4	0.17	Cu.ft @ 137.05	23.30
				1,188.75 B
	Total A + B			4,560.25
	Contractor's profit & overhead		20%	912.05
	Total Composite rate			9,075.05
	Item No.28- 25-1			
Sq.m.	Providing and fixing fully glazed fixed aluminium windows, ventilators (Deluxe model - 1.6mm) of anodized champagne or approved color of Alcop, Pakistan Cable or any approved section as approved by Engineer incharge including aluminium fittings, local tinted glass, lugs, cutting holes and making good the damages to walls.			
	Considering a window 1.75 x 4.0	7.00	Sq.ft.	
	1. Labour			
	Total Labour rate Same as in item 28-21			663
	2. Materials			
	Window, aluminium - fixed	6.00	Sq.ft. @ 525.00	3,150.00
	Other materials			1,188.75
	Total			4,338.75
	Contractor's profit & overhead		20%	867.75
	Total Composite rate			8,666.48
	Item No. 28- 26-1			
Sq.m. a)	Providing and fixing fully glazed partly fixed and partly hung or sliding aluminium windows (Deluxe model - 1.6mm) of anodized champagne or approved color of Prime, Chawal, Alcop, Pakistan Cable or any approved section as approved by Engineer Incharge including aluminium fittings, local tinted glass, lugs, cutting holes and making good the damages to walls.			
	Considering a window 3 x 4.0	12.00	Sq.ft.	
	1. Labour			
	Total Labour rate Same as in item 28-21-1			663
	2. Materials			
	Window, aluminium - partly fixed/hung or sliding	6.17	Sq.ft. @ 550.00	3,393.50
	Other materials			1,188.75
	Total			4,582.25
	Contractor's profit & overhead		20%	916.45
	Total Composite rate			9,115.64
Sq.m. b)	Providing and fixing fixed or sliding fibre wire gauze in aluminium frame as approved by Engineer incharge including aluminium fittings etc.			

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Considering a window 3 x 4.0	12.00	Sq.ft.		
	1. Labour				
	Total Labour rate Same as in item 28-21			265.34	265
	2. Materials				
	Window, fibre wire gauze	12.00	Sq.ft. @	135.00	1,620.00
	Other materials			10%	162.00
	Total				1,782.00
	Contractor's profit & overhead			20%	356.40
	Total Composite rate				2,182.77
					2,183
	Item No. 28- 27-1				
Kg	Providing and fixing iron grills as per approved design including welding all sides of the section at the junction and fixing with sunk iron screws, painting with two coats of red oxide paint and fixing in masonry/concrete or wood				
	Detail of cost for 6 x 4 window	28.32	Kg		
	1. Labour				
	Black smith	3.00	Hrs @	112.00	336.00
	Welder	2.00	Hrs @	125.00	250.00
	Mason	0.50	Hrs @	125.00	62.50
	Labourer	0.50	Hrs @	87.50	43.75
					692.25
	Contractor's profit & overhead			20%	138.45
	Total Labour rate				29.33
					29
	2. Materials				
	Steel-Mild	28.32	Kg. @	82.00	2,322.24
	Screw 3/4"	10.00	No. @	3.00	30.00
	Paint red oxide (2 coats)	26.00	Sq.ft. @	7.80	202.80
					2,555.04
	Contractor's profit & overhead			20%	511.01
	Total Composite rate				137.60
					138
	Item No. 28- 28-1				
Sq.m	Providing and fixing iron grills with square bars of 3/8" size as per approved design including welding all sides of the section at the junction and fixing with sunk iron screws, painting with two coats of red oxide paint and fixing in masonry/concrete or wood				
	Detail of cost for 6 x 4 window	24.00	Sq.ft.		
	1. Labour				
	Black smith	16.00	Hrs @	112.00	1,792.00
	Welder	12.00	Hrs @	125.00	1,500.00
	Mason	6.00	Hrs @	125.00	750.00
	Labourer	6.00	Hrs @	87.50	525.00
					4,567.00
	Contractor's profit & overhead			20%	913.40
	Total Labour rate				228.35
					228
	2. Materials				
	Grills, Square bar	24.00	Sq.ft. @	230.00	5,520.00
	Screw 3/4"	160.00	No. @	3.00	480.00
	Paint red oxide (2 coats)	24.00	Sq.ft. @	7.80	187.20
					6,187.20
	Contractor's profit & overhead			20%	1,237.44
	Total Composite rate				3,557.06
					3,557
	Item No. 28- 29-1				
Sq.m.	Providing and fixing iron bars of required dia at required spacing with horizontal flat iron as per approved design including making holes fixing with sunk iron screws,				

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	painting with two coats of red oxide paint.				
	Detail of cost for 20 Sq.ft				
	Considering a window 5' x 4' with 3"x 4" frame and 1/2" dia M.S. rods placed vertically at 3" c/c with flat iron stay.				
	Materials				
	Wt. of 1/2" bars 17 x 4 x 0.668 x 1.05	47.70	Lbs. =	21.63	Kg.
	Wt. of flat 1 x 4.83 x 1.28 x 1.05	6.49	Lbs. =	2.94	Kg.
	1. Labour				
	Black smith	2.50	Hrs @	112.00	280.00
	Painter	2.50	Hrs @	125.00	312.50
	Carpenter	2.00	Hrs @	125.00	250.00
	Labourer	2.00	Hrs @	87.50	175.00
	Hammer man	2.00	Hrs @	87.50	175.00
	Bellow boy	2.00	Hrs @	87.50	175.00
					1,367.50
	Contractor's profit & overhead			20%	273.50
	Total Labour rate				882.86
					883
	2. Materials				
	Round bars	10.00	Kg. @	82.00	820.00
	Flat iron	2.94	Kg. @	80.00	235.56
	Iron screw 1.5"	6.00	No. @	10.00	60.00
	Paint red oxide (2 coats)	30.00	Sq.ft. @	7.80	234.00
					1,349.56
	Contractor's profit & overhead			20%	269.91
	Total Composite rate				1,754.14
					1,754
	Item No. 28- 30-1				
Kg.	Providing and fixing with iron screws holdfasts of flat iron bifurcated at one end as per approved design and size including painting with black bitumastic paint two coats including the cost of embedding with cement concrete 1:2:4 and curing but excluding the cost of cement concrete				
	Detail of cost for 28.94 Kg				
	Considering 100 Nos. of holdfast of flat iron 1.5" x 1/8" and 9" long (Gross length including head = 12")				
	Materials				
	H.F wt.+ 5% wastage 100x 12"x 0.638x 1.05	66.99	Lbs. =	30.39	Kg.
	1. Labour				
	Black smith	8.00	Hrs @	112.00	896.00
	Painter	8.00	Hrs @	125.00	1,000.00
	Carpenter	8.00	Hrs @	125.00	1,000.00
	Labourer	8.00	Hrs @	87.50	700.00
	Hammer man	4.00	Hrs @	87.50	350.00
	Bellow boy	8.00	Hrs @	87.50	700.00
					4,646.00
	Contractor's profit & overhead			20%	929.20
	Total Labour rate				192.65
					193
	2. Materials				
	Flat iron	20.00	Kg. @	80.00	1,600.00
	Iron screw 1.5"	216.00	No. @	10.00	2,160.00
	Paint black	1.00	Litre @	200.00	200.00
					3,960.00
	Contractor's profit & overhead			20%	792.00
	Total Composite rate				356.85
					357

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 28- 31-1

Kg. Providing and fixing mild steel anchor or holding down bolts with nuts and washers, welded with M.S. plates if required including painting two coats of black bitumastic paint but excluding the cost of cement concrete.

Detail of cost for 24.46 Kg

Considering 3/4" dia. anchor bolt 18" long and 1/4" thick M.S. plate 6" x 6"

Materials

M.S.bars+5%	10x 1.5x 1.502x 1.05	23.66	Lbs.	=	10.73	Kg.
Nuts 3/4" dia.	10 x 0.342	3.42	Lbs.			
Plate 6" x 6"	10x 0.5x 0.50x 10.2	25.50	Lbs.			
Washer 3/4"	2 x10 x 0.0675	1.35	Lbs.			
		30.27	Lbs.	=	13.73	Kg.

1. Labour

Black smith	1.00	Hrs	@	112.00	112.00
Painter	0.50	Hrs	@	125.00	62.50
Mason	1.00	Hrs	@	125.00	125.00
Labourer	2.50	Hrs	@	87.50	218.75
Hammer man	4.00	Hrs	@	87.50	350.00
Bellow boy	6.00	Hrs	@	87.50	525.00

1,393.25

Contractor's profit & overhead

20% 278.65

Total Labour rate

68.35

68

2. Materials

Mild steel bars(G-40)	18.20	Kg	@	88.00	1,601.60
M.S. plate	13.73	Kg	@	85.00	1,167.08
Paint black	1.00	Litre	@	200.00	200.00
Mortar 1 : 4	1.00	Cu.ft	@	137.05	137.05
Fuel wood				5%	59.26

3,165.00

Contractor's profit & overhead

20% 633.00

Total Composite rate

223.62

224

Item No.28- 32-1

Kg. Providing rolled steel joists and channels including hoisting and fixing in position in cement concrete but excluding the cost of cement concrete.

Detail of cost for 367.41 Kg

Considering a clear span 16'-0" and using R.S. joist 15" x 6" at 45 lbs per R.ft.

Materials

Weight + 5% wastage	18 x 45 x 1.05	850.50	Lbs.	=	385.78	Kg.
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1. Labour

Black smith	2.00	Hrs	@	112.00	224.00
Mason	0.75	Hrs	@	125.00	93.75
Labourer	6.00	Hrs	@	87.50	525.00
Hammer man	1.00	Hrs	@	87.50	87.50
Mistri	0.75	Hrs	@	110.00	82.50

1,012.75

Contractor's profit & overhead

20% 202.55

Total Labour rate

3.31

3

2. Materials

R.S. joist	385.78	Kg.	@	82.00	31,634.31
Rope				0.5%	158.17

31,792.48

Contractor's profit & overhead

20% 6,358.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	107.14	107
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Item No. 28- 33-1**Kg. Providing M.S. Tees, angles and flats including fixing in position.**

Detail of cost for 174.72 kg.

Considering 2"x2"x1/4" T-iron placed at 12.5' c/c R.S. joists for flat terrace roofing 12ft length.

Materials

T-iron wt.+5% 10 x 12 x 3.21 404.46 Lbs. = 183.46 Kg.

1. Labour

Black smith 2.50 Hrs @ 112.00 280.00

Mason 1.25 Hrs @ 125.00 156.25

Labourer 2.50 Hrs @ 87.50 218.75

Hammer man 2.50 Hrs @ 87.50 218.75

Mistri 30.00 Hrs @ 110.00 3,300.00

4,173.75

Contractor's profit & overhead 20% 834.75

Total Labour rate 28.72

29

2. Materials

T-Iron 183.46 Kg. @ 75.00 13,759.64

Rope 4.0% 550.39

14,310.02

Contractor's profit & overhead 22% 3,148.21

Total Composite rate 123.86

124

Item No.28- 34-1**Kg. Providing and fixing R.S. joists and channels including riveting, gussset plates, nuts with hoisting and erecting in position in steel trusses, frame and towers of any approved design.**

Detail of cost for 316 kg.

Considering a stanchion 8" x 6" x 35 lbs.(web and flange thickness 0.35" and 0.648" respectively) of rolled steel joist 12 ft. high, planed top and bottom, 18" x 18" x 3/4" base plate and 3" x 2" x 1/2" M.S. angle cleats, the whole secured together with 3/4" dia. rivets, countersunk on underside of base plate. Four rag or lavis bolts 1.5" dia 10" long with bolts, nut and washer hinged after making holes in base plate and fixing in concrete. The cap of stanchion be 18" x 10" x 3/4" Further two recessed beams two flange brackets composed of 6" x 4" x 1/2" M.S. angle with 6" x 3" x 1/2" packing pieces both covered with 6" x 1/2" x 1/2" angular stiffner plate. The whole flange bracket with components be riveted to stanchion flange with size 3/4" dia rivet on each side. The 3/4" dia. rivet on each side. The 4" leg flange bracket attached to cap plate be hold to receive two 7/8" dia bolt on each side.

R.S. joists 8"x6" 1 x 12.0 x 35 lbs. 420.00 Lbs.

Base 1x1.5x1.5x30.60 68.85 Lbs.

Gusset plate 1/2" 2x1.5x0.25x20.40 15.30 Lbs.

At base (trapezoidal) 2(1.5+0.50)/2 x1x 20.4 40.80 Lbs.

Cap plate 1x1.5x0.83x30.60 38.10 Lbs.

Cleat angle 3"x3"x.5" 2x1-6x9.35 28.05 Lbs.

Flanged bracket of L-iron (6"x4"x1/2") on top
2x0.5x16.16 16.16 Lbs.

R.S.joist 6"x3"x1/2" 2x0.5x0.25x20.40 5.10 Lbs.

1/2" th.stiffner/covering plate for flange bracket
2x0.5x0.71x20.40 14.48 Lbs.

Stiffner portion 0.5(2'x5.5")x0.5x8.5"x20.40 10.00 Lbs.

3/4" dia. rivets 2 x 6 x 0.42 lbs. 5.04 Lbs.

Rivets 2 x 3 x 0.42 lbs. 2.52 Lbs.

Rivets 2 x 6 x 0.451 5.41 Lbs.

Rivets 2 x 2 x 2 x 0.124 0.99 Lbs.

Rivets 2 x 12 x 0.124 2.98 Lbs.

Rag bolts1.25" dia.

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Shanks	4 x 10 x 0.3477	13.91	Lbs.		
Nuts	4 x 0.8511	3.40	Lbs.		
Head	4 x 1.1988	4.80	Lbs.		
Washer (1.25" dia)	4 x 0.24	0.96	Lbs.		
Sub Total		696.85	Lbs.	=	316.09 Kg.
Wastage	5%	34.84			
Total		731.69	Lbs.	=	331.89 Kg.
1. Labour					
Black smith		20.00	Hrs	@	112.00 2,240.00
Driller		20.00	Hrs	@	87.50 1,750.00
Welder		8.00	Hrs	@	125.00 1,000.00
Labourer		36.00	Hrs	@	87.50 3,150.00
Helper		36.00	Hrs	@	75.00 2,700.00
Hammer man		16.00	Hrs	@	87.50 1,400.00
					12,240.00
Contractor's profit & overhead				20%	2,448.00
Total Labour rate					46.48
2. Materials					
R.S. joist		331.89	Kg.	@	82.00 27,215.22
3. Equipment & Machinery					
Drill machine		16.00	Hrs	@	60.00 960.00
Riveting machine		16.00	Hrs	@	60.00 960.00
Sundries				5%	96.00
Total 2 + 3					29,231.22
Contractor's profit & overhead				20%	5,846.24
Total Composite rate					157.49

47

158

Item No. 28- 35-1

Kg. Providing and fixing M.S. Tees, angles and flat including riveting, fixing with gusset plates, bolts, hoisting and erecting in position in steel trusses, frames and towers of any approved design.

Detail of cost for 292.55 Kg.

Considering a steel truss comprising Tees, angles and flats and rise 6 ft. 3 inch, principal rafter being of T-iron 4"x4"x.50" strut of L-iron at centre of rafter 1.5"x1.5"x1/2" braces of flat iron from apex to tie rod 2"x3/8" tie rod of flat iron 2"x3/8" at centre connecting braces and strut.

Material

T-iron 4"x4"x1/2"	2x15.5x12.79	396.49	Lbs.		
L-iron 1.5"x1.5"x1/2"	2x3.75x2.34	17.55	Lbs.		
Flat iron 2"x3/8"	2x7.67x2.55 lbs.	39.12	Lbs.		
Flat iron 2"x.5"	2x10.0x3.40	68.00	Lbs.		
Flat iron 2"x3/8"	2x4.5x2.55	22.95	Lbs.		
Rivet 5/8" dia	3x2x0.21	1.26	Lbs.		
4" long web shank	2x2x0.20	0.80	Lbs.		
7/8" long web shank	2x 2x2x0.21	1.68	Lbs.		
1.25" long web shank	2x 3x2x0.24	2.88	Lbs.		
7/8" long web shank	4x2x0.21	1.68	Lbs.		
1" long web shank	3x2x0.21	1.26	Lbs.		
3/4" shank	2x2x0.20	0.80	Lbs.		
7/8" long shank	2x2x0.21	0.84	Lbs.		
Gusset 3/8" thick	0.75/0.61 x 15.3	18.56	Lbs.		
Gusset at apex	0.61x20.40	12.44	Lbs.		
Shoe plate at support	2.50 x 15.30	38.25	Lbs.		
Gusset	(2x15"+9/2x6") x 20.4	20.40	Lbs.		
Sub total		644.96	Lbs.	=	292.55 Kg.
Wastage	5%	32.25	Lbs.		
Total		677.21	Lbs.	=	307.18 Kg.

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
1. Labour				
Black smith	20.00	Hrs	@ 112.00	2,240.00
Driller	26.00	Hrs	@ 87.50	2,275.00
Welder	8.00	Hrs	@ 125.00	1,000.00
Labourer	30.00	Hrs	@ 87.50	2,625.00
Helper	30.00	Hrs	@ 75.00	2,250.00
Hammer man	8.00	Hrs	@ 87.50	700.00
				<u>11,090.00</u>
Contractor's profit & overhead			20%	2,218.00
Total Labour rate				<u>45.49</u>
				46
2. Materials				
M.S. tee iron	307.18	Kg.	@ 75.00	23,038.52
3. Equipment &				
Drill machine	10.00	Hrs	@ 60.00	600.00
Riveting machine	8.00	Hrs	@ 60.00	480.00
Sundries			5%	54.00
				<u>1,134.00</u>
Total 2 + 3				<u>24,172.52</u>
Contractor's profit & overhead			20%	4,834.50
Total Composite rate				<u>144.64</u>
				145

Item No. 28- 36-1

Kg. Providing and fixing R.S. joists and channels including welding all the sides of the sections at the junction, gusset plates, bolts, nuts, hoisting and erecting in position in steel trusses and towers of approved design.

Detail of cost for 308.40 kg.

Considering a stanchion without using rivets as mentioned in item 28- 34-1.

Weight with rivets	696.85	Lbs.			
Deduct wt. of rivets in stanchion in item 28- 34-1	16.94	Lbs.			
Sub total	679.91	Lbs.	=	308.40	Kg.
Wastage	0.05	34.00	Lbs.		
Total	713.91	Lbs.	=	323.83	Kg.

1. Labour

Black smith	16.00	Hrs	@ 112.00	1,792.00
Driller	1.00	Hrs	@ 87.50	87.50
Welder	28.00	Hrs	@ 125.00	3,500.00
Labourer	26.00	Hrs	@ 87.50	2,275.00
Helper	26.00	Hrs	@ 75.00	1,950.00
Hammer man	12.00	Hrs	@ 87.50	1,050.00
				<u>10,654.50</u>

Contractor's profit & overhead

			20%	2,130.90
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Total Labour rate

				<u>41.46</u>
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41**2. Materials**

M.S. tee iron	307.18	Kg.	@ 75.00	23,038.52
Carbon rod	24.00	No.	@ 15.00	360.00
				<u>23,398.52</u>

3. Equipment &

Drill machine	10.00	Hrs	@ 60.00	600.00
Riveting machine	8.00	Hrs	@ 60.00	480.00
Sundries			5%	54.00
				<u>24,532.52</u>

Total 2 + 3

				<u>24,532.52</u>
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Contractor's profit & overhead

			20%	4,906.50
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Total Composite rate

				<u>136.91</u>
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Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 28- 37-1

Kg. Providing and fixing M.S. ties, angles, and flats including welding of all sides of the section at the junction, gusset plates, bolts, nuts, hoisting and erecting in position in steel trusses, frame and towers of approved design.

Detail of cost for 287.05 kg.

Considering a truss without using rivets as mentioned in item 28- 35-1.

Weight with rivets	644.96	Lbs.				
Deduct wt. of rivets in stanchion in item 28- 35-1	12.14	Lbs.				
Sub total	632.82	Lbs.	=	287.05	Kg.	
Wastage	0.05	31.64	Lbs.			
Total	664.46	Lbs.	=	301.40	Kg.	
1. Labour						
Black smith	20.00	Hrs	@	112.00	2,240.00	
Welder	20.00	Hrs	@	125.00	2,500.00	
Labourer	24.00	Hrs	@	87.50	2,100.00	
Helper	20.00	Hrs	@	75.00	1,500.00	
Hammer man	20.00	Hrs	@	87.50	1,750.00	
					10,090.00	
Contractor's profit & overhead				20%	2,018.00	
Total Labour rate					42.18	42
2. Materials						
M.S. tee iron	301.40	Kg.	@	75.00	22,604.87	
Carbon rod	36.00	No.	@	15.00	540.00	
					23,144.87	
3. Equipment &						
Welding machine	24.00	Hrs	@	125.00	3,000.00	
Sundries				2%	522.90	
Total 2 + 3					26,667.77	
Contractor's profit & overhead				20%	5,333.55	
Total Composite rate					153.66	154

Item No. 28- 38-1

Cm. Welding by gas plant upto 10 ft. (3 m.) height from ground level.

Detail of cost for 10

1. Labour

Welder	11.00	Hrs	@	125.00	1,375.00	
Contractor's profit & overhead				20%	275.00	
Total Labour rate					1.65	2

2. Materials

Gas cylinder	2.00	No.	@	1750.00	3,500.00	
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3. Equipment &

Welding machine	30.00	Hrs	@	125.00	3,750.00	
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Sundries

				8%	580.00	
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Total 2 + 3

					7,830.00	
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Contractor's profit & overhead

				20%	1,566.00	
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Total Composite rate

					11.05	11
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Item No. 28- 39-1

Cm. Welding by Electric plant upto 10 ft. (3 m.) height from ground level.

Detail of cost for 10 m.

1. Labour

Welder	24.00	Hrs	@	125.00	3,000.00	
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Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	600.00	
	Total Labour rate		3.60	4
	2. Materials			
	Carbon rod	96.00	No. @ 15.00	1,440.00
	3. Equipment &			
	Welding machine	24.00	Hrs @ 125.00	3,000.00
	Sundries		10%	444.00
	Total 2 + 3			4,884.00
	Contractor's profit & overhead	20%	976.80	
	Total Composite rate		9.46	9

Item No. 28- 40

Providing and fixing moulded steel door frame of approved profile, manufactured from zinc-coated mild steel sheets 16 gauge made by Shahah Industries or equivalent standard conforming to B.S.S.1245, treated with special primer base paint all round, fitted with six fixing lugs, three steel hinges for fixing door shutters standard lock-strike plate, one sliding holt eye, and three rubber buffers, including cutting holes and making good damages to walls and filling the door frame cavity with lean cement mortar 1:4 as directed by the Engineer Incharge.

R.M. a)	4.5"-5" (113.5mm-125 mm) size							
	Considering a door 4' x 7' = 7 + 4 + 7	18.00	R.ft.					
	1. Labour							
	Mason	2.00	Hrs @	125.00	250.00			
	Labourer	2.00	Hrs @	87.50	175.00			
					425.00			
	Contractor's profit & overhead			20%	85.00			
	Total Labour rate				92.96			93
	2. Materials							
	Door frame, moulded steel 5" size	18.00	R.ft. @	185.00	3,330.00			
	Mortar 1 : 4	1.50	Cu.ft @	137.05	205.58			
					3,535.58			
	Contractor's profit & overhead			20%	707.12			
	Total Composite rate				866.31			866
R.M. b)	8"-10" (200mm-250 mm) size							
	Analysis for	18.00	R.ft.					
	1. Labour							
	Mason	3.00	Hrs @	125.00	375.00			
	Labourer	3.00	Hrs @	87.50	262.50			
					637.50			
	Contractor's profit & overhead			20%	127.50			
	Total Labour rate				139.44			139
	2. Materials							
	Door frame, moulded steel 10" size	18.00	R.ft. @	370.00	6,660.00			
	Mortar 1 : 4	2.50	Cu.ft @	137.05	342.63			
					7,002.63			
	Contractor's profit & overhead			20%	1,400.53			
	Total Composite rate				1,671.15			1,671

Item No. 28- 40 C

Item same as above except moulded steel door frame manufactured from zinc coated mild steel 18 gauge sheets instead of 16 gauge

R.M. i)	4.5"-5" (113.5mm-125 mm) size							
	Total Labour rate	Same as in item 28- 40a			92.96			93

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	2. Materials					
	Door frame, moulded steel 5" size	18.00	R.ft.	@ 135.00	2,430.00	
	Mortar 1 : 4	1.50	Cu.ft	@ 137.05	205.58	
					<u>2,635.58</u>	
	Contractor's profit & overhead			20%	527.12	
	Total Composite rate				<u>669.45</u>	669
	ii) 8"-10" (200mm-250 mm) size					
	Total Labour rate Same as in item 28- 40				139.44	139
	2. Materials					
	Door frame, moulded steel 10" size	18.00	R.ft.	@ 270.00	4,860.00	
	Mortar 1 : 4	1.50	Cu.ft	@ 137.05	205.58	
					<u>5,065.58</u>	
	Contractor's profit & overhead			20%	1,013.12	
	Total Composite rate				<u>1,247.45</u>	1,247
	iii) 12"-14" (300mm-350 mm) size					
	Total Labour rate Same as in item 28- 40				139.44	139
	2. Materials					
	Door frame, moulded steel 14" size	18.00	R.ft.	@ 450.00	8,100.00	
	Mortar 1 : 4	1.50	Cu.ft	@ 137.05	205.58	
					<u>8,305.58</u>	
	Contractor's profit & overhead			20%	1,661.12	
	Total Composite rate				<u>1,956.15</u>	1,956
	Item No. 28- 41-1					
Sq.m.	Providing and fixing fully glazed Aluminium swing doors 2.0mm of anodized Champagne or approved color (12 microns) or any approved section including Aluminium fittings, hungs, cutting holes and making good damages to walls.					
	Considering a door of 4' x 7'	28.00	Sq.ft	= 2.60	Sq.m.	
	1. Labour					
	Total Labour rate Same as in item 28-2				1,838.70	1,839
	2. Materials					
	Door with frame, Aluminium swing	27.50	Sq.ft	@ 450.00	12,375.00	
	Other materials Same as in item 28-2				3,342.59	
					<u>15,717.59</u>	
	Contractor's profit & overhead			20%	3,143.52	
	Total Composite rate				<u>9,086.75</u>	9,087
	Item No. 28- 42-1					
Sq.m.	Providing and fixing fully glazed Aluminium sliding doors 1.6mm of anodized Champagne (12 microns) or approved color including Aluminium fittings, hungs, cutting holes and making good damages to walls.					
	Considering a door of 4' x 7'	28.00	Sq.ft	= 2.60	Sq.m.	
	1. Labour					
	Total Labour rate Same as in item 28-2-1				1,838.70	1,839
	2. Materials					
	Door with frame, Aluminium sliding	27.50	Sq.ft	@ 350.00	9,625.00	
	Other materials Same as in item 28-2-1				3,342.59	
					<u>12,967.59</u>	
	Contractor's profit & overhead			20%	2,593.52	
	Total Composite rate				<u>7,818.61</u>	7,819

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
Item No. 28- 43-1							
Sq.m.	Providing and fixing fully glazed aluminium sliding doors (Deluxe model- 1.6mm) of anodized Champagne or approved color of Alcop, Pakistan Cable or any approved section including Aluminium fittings, hungs, cutting holes and making good damages to walls.						
	Considering a door of 4' x 7'	28.00	Sq.ft	=	2.60	Sq.m.	
	1. Labour						
	Total Labour rate	Same as in item 28-2-1			1,838.70	1,839	
	2. Materials						
	Door with frame gauzed, Aluminium sliding	32.60	Sq.ft	@	375.00	12,225.00	
	Contractor's profit & overhead				20%	2,445.00	
	Total Composite rate					7,476.17	7,476
Item No. 28- 44-1							
Kg.	Small iron work such as gusset plates knees, bends, stirrups, straps, rings including cutting, drilling, rivetting, handling assembling etc. but excluding erection in position.						
	1. Labour						
	Total Labour rate	Same as in item 28-35-1			45.50	46	
	2. Materials						
	Iron work	1.00	Kg.	@	80.00	80.00	
	3. Plant & Equipment	Same as in item 28-35-1				3.88	
	Total 2 + 3					83.88	
	Contractor's profit & overhead				20%	16.78	
	Total Composite rate					146.15	146
Item No. 28- 45-1							
Kg.	Fabrication of heavy steel work with angle, tees, flat iron, round iron and sheet iron for making trusses, girders, tanks etc. including cutting, drilling riveting, handling, assembling and fixing but excluding erection in position.						
	1. Labour						
	Total Labour rate	Same as in item 28-34-1			46.50	47	
	2. Materials						
	Steel-Mild	1.00	Kg.	@	82.00	82.00	
	3. Plant & Equipment	Same as in item 28-35-1				3.59	
	Total 2 + 3					85.59	
	Deduct for erection in position				5%	4.28	
						81.31	
	Contractor's profit & overhead				20%	16.26	
	Total Composite rate					144.07	144
Item No. 28- 46-1							
Kg.	Erection and fixing in position iron trusses and staging of water tank.						
	i) Erection charges as per item 28- 44-1					3.88	
	ii) Erection charges as per item 28- 45-1					4.28	
	Total					8.16	
	Contractor's profit & overhead				20%	1.63	
	Total Composite rate					9.79	10
Item No. 28- 47							
	Providing and fixing steel grated single leaf door with locking arrangement, angle iron 2" x 2" x 3/8" frame, middle strip, 1/4" thick gusset plate 3" x 3" at each edge and 3/4"						

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
M.S square or round bars at 4" c/c including two coats of red oxide paint.					
	Considering a door 2.5' x 7.0'	17.50	Sft.		
Sq.m. a)	M.S. sq. bars 3/4" (19 mm) size.				
	Materials				
	L-iron 2"x 2"x 3/8" 2x 9.5x 4.56	87.10	Lbs.		
	Middle strip 2.5 x 4.56 lbs.	11.40	Lbs.		
		98.50	Lbs.	=	44.68 Kg.
	Sq. bars 3/4" size 42 x 1.927	80.93	Lbs.	=	36.71 Kg.
	Gusset plate 1/4" 4 x 0.5 x 0.75 x 7.67	11.51	Lbs.	=	5.22 Kg.
	Locking 1/4" th. Plate 2 x 0.25 x 0.25 x 10.23	1.28	Lbs.	=	0.58 Kg.
	M.S. handle 1" dia. 1.5 x 2.67	4.01	Lbs.	=	1.82 Kg.
	1. Labour				
	Black smith	9.00	Hrs	@	112.00 1,008.00
	Mason	1.00	Hrs	@	125.00 125.00
	Driller	1.00	Hrs	@	87.50 87.50
	Welder	3.50	Hrs	@	125.00 437.50
	Labourer	9.00	Hrs	@	87.50 787.50
	Bellow boy	6.00	Hrs	@	87.50 525.00
	Hammer man	3.50	Hrs	@	87.50 306.25
	Painter	1.00	Hrs	@	125.00 125.00
					<u>3,401.75</u>
	Contractor's profit & overhead			20%	680.35
	Total Labour rate				<u>2,509.91</u>
					2,510
	2. Materials				
	M.S. square/ round	36.71	Kg.	@	80.00 2,936.91 A
	Other materials				
	Angle iron	44.68	Kg.	@	74.00 3,306.13
	Gusset plate 1/4"	5.22	Kg.	@	80.00 417.49
	Locking 1/4" th. Plate	0.58	Kg.	@	80.00 46.40
	M.S. handle 1" dia.	1.82	Kg.	@	80.00 145.33
	Hinges with lugs	2.00	No.	@	62.50 125.00
	Paint red oxide (2	35.00	Sq.ft.	@	7.80 273.00
	Mortar 1: 4	0.33	Cu.ft.	@	137.05 45.23
					<u>4,358.59</u> B
	Total A + B				7,295.50
	3. Plant & Equipment				
	Welding machine	3.50	Hrs	@	125.00 437.50
	Drill machine	1.00	Hrs	@	60.00 60.00
	Sundries			5%	24.88
					<u>522.38</u>
	Total 2 + 3				7,817.88
	Contractor's profit & overhead			20%	1,563.58
	Total Composite rate				<u>8,278.16</u>
					8,278
Sq.m b)	M.S round bars 3/4" (19 mm) dia				
	Round bars 3/4" size 42 x 1.514	63.59	Lbs.	=	28.84 Kg.
	1. Labour				
	Total Labour rate Same as in item 28- 47-1				2,509.90
					2,510
	2. Materials				
	M.S. square/ round bars	31.00	Kg.	@	80.00 2,480.00
	Other materials Same as in item 28-47-1				4,358.59
					<u>6,838.59</u>
	Contractor's profit & overhead			20%	1,367.72
	Total Composite rate				<u>7,555.61</u>
					7,556

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 28- 48

Providing and fixing steel grated double leaf door with locking arrangement, angle iron 2"x2"x3/8" frame, middle strip, 1/4" thick gusset plate 3" x 3" at each edge and 3/4" M.S square or round bars at 4" c/c including two coats of red oxide paint.

	Considering a door 4' x 7.0'	28.00	Sq.ft.				
Sq.m.	a) M.S. sq. bars 3/4" (19 mm) size.						
	Materials						
	L-iron 2"x 2"x 3/8"	2x 18x 4.56	164.16	Lbs.			
	Middle strip	5 x 4.56 lbs.	22.80	Lbs.			
			186.96	Lbs.	=	84.80	Kg.
	Sq. bars 3/4" size	70 x 1.927	134.89	Lbs.	=	61.19	Kg.
	Gusset plate 1/4"	4 x 0.75 x 0.75 x 10.23	23.02	Lbs.	=	10.44	Kg.
	Locking 1/4" th. Plate	2 x 0.67 x 0.167 x 10.23	2.29	Lbs.	=	1.04	Kg.
	M.S. handle 1" dia.	1.5 x 2.67	4.01	Lbs.	=	1.82	Kg.
	1. Labour						
	Black smith		14.00	Hrs	@	112.00	1,568.00
	Mason		1.50	Hrs	@	125.00	187.50
	Driller		1.50	Hrs	@	87.50	131.25
	Welder		5.25	Hrs	@	125.00	656.25
	Labourer		14.00	Hrs	@	87.50	1,225.00
	Bellow boy		9.00	Hrs	@	87.50	787.50
	Hammer man		5.25	Hrs	@	87.50	459.38
	Painter		1.50	Hrs	@	125.00	187.50
							5,202.38
	Contractor's profit & overhead				20%		1,040.48
	Total Labour rate						2,399.04
							2,399
	2. Materials						
	M.S. square/ round		61.19	Kg.	@	80.00	4,894.86 A
	Other materials						
	Angle iron		84.80	Kg.	@	74.00	6,275.53
	Gusset plate 1/4"		10.44	Kg.	@	80.00	835.25
	Locking 1/4" th. Plate		1.04	Kg.	@	80.00	83.07
	M.S. handle 1" dia.		1.82	Kg.	@	80.00	145.33
	Hinges with lugs		2.00	No.	@	62.50	125.00
	Paint red oxide (2 coats)		35.00	Sq.ft.	@	7.80	273.00
	Mortar 1: 4		0.67	Cu.ft.	@	137.05	91.82
							7,829.02 B
	Total A + B						12,723.87
	3. Plant & Equipment						
	Welding machine		5.00	Hrs	@	125.00	625.00
	Drill machine		1.50	Hrs	@	60.00	90.00
	Sundries					5%	35.75
							750.75
	Total 2 + 3						13,474.62
	Contractor's profit & overhead				20%		2,694.92
	Total Composite rate						8,612.76
							8,613
Sq.m	b) M.S round bars 3/4" (19 mm) dia						
	Materials						
	Round bars 3/4" size	70 x 1.514	105.98	Lbs.	=	48.07	Kg.
	1. Labour						
	Total Labour rate	Same as in item 28- 48-1					2,399.05
							2,399
	2. Materials						
	M.S. square/ round bars		48.34	Kg.	@	80.00	3,867.20
	Other materials	Same as in item 28-48-1					7,829.02

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	11,696.22	
Total Composite rate		2,339.24	
		<u>7,792.68</u>	7,793

Item No. 28- 49

Providing and fixing steel grated single leaf door with 1/16" (1.6mm) thick M.S. sheeting and locking arrangement, angle iron 2"x2"x3/8" frame, middle strip, 1/4" thick gusset plate 3"x3" at each edge and 3/4" M.S square or round bars at 4" c/c including two coats of red oxide paint.

Considering a door 2.5' x 7.0'	17.50	Sq.ft.				
Sq.m. a) M.S. sq. bars 3/4" (19 mm) size.						
Materials						
M.S. sheet 1/16"	17.5 x 2.55	44.63	Lbs.	=	20.24	Kg.
1. Labour						
Black smith		10.00	Hrs	@	112.00	1,120.00
Mason		1.00	Hrs	@	125.00	125.00
Driller		1.00	Hrs	@	87.50	87.50
Welder		3.75	Hrs	@	125.00	468.75
Labourer		9.00	Hrs	@	87.50	787.50
Bellow boy		6.00	Hrs	@	87.50	525.00
Hammer man		3.50	Hrs	@	87.50	306.25
Painter		1.00	Hrs	@	125.00	125.00
						<u>3,545.00</u>
Contractor's profit & overhead					20%	709.00
Total Labour rate						<u>2,615.60</u>
						2,616
2. Materials						
M.S. sheet		20.24	Kg.	@	75.00	1,518.13
M.S. square/ round		36.71	Kg.	@	80.00	2,936.91
Other materials	Same as in item 28-47					4,358.59
Total						<u>8,813.63</u>
3. Plant & Equipment						
Welding machine		3.75	Hrs	@	125.00	468.75
Drill machine		1.00	Hrs	@	60.00	60.00
Sundries					5%	26.44
						<u>555.19</u>
Total 2 + 3						9,368.82
Contractor's profit & overhead					20%	1,873.76
Total Composite rate						<u>9,528.19</u>
						9,528
Sq.m b) M.S round bars 3/4" (19 mm) dia						
Materials						
Round bars 3/4" size	42 x 1.514	63.59	Lbs.	=	28.84	Kg.
1. Labour						
Total Labour rate	Same as in item 28- 49-1					2,615.60
						2,616
2. Materials						
M.S. sheet		20.24	Kg.	@	75.00	1,518.13
M.S. square/ round bars		28.84	Kg.	@	80.00	2,307.47
Other materials	Same as in item 28-47-1					4,358.59
						<u>8,184.19</u>
Contractor's profit & overhead					20%	1,636.84
Total Composite rate						<u>8,654.13</u>
						8,654

Item No. 28- 50

Providing and fixing steel grated double leaf door with M.S. 1/16" (1.6mm) thick sheet and locking arrangement, angle iron 2"x2"x3/8" frame, middle strip, 1/4" thick gusset plate 3"x3" at each edge and 3/4" M.S square or round bars at 4" c/c including two coats of red oxide paint.

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
coats of red oxide paint.					
	Considering a door 4' x 7.0'	28.00	Sq.ft.		
Sq.m.	a) M.S. sq. bars 3/4" (19 mm) size.				
	M.S. sheet 1/16" 28 x 2.55	71.40	Lbs.	= 32.39	Kg.
	1. Labour				
	Black smith	15.50	Hrs	@ 112.00	1,736.00
	Mason	1.50	Hrs	@ 125.00	187.50
	Driller	1.50	Hrs	@ 87.50	131.25
	Welder	5.75	Hrs	@ 125.00	718.75
	Labourer	14.00	Hrs	@ 87.50	1,225.00
	Bellow boy	9.00	Hrs	@ 87.50	787.50
	Hammer man	5.25	Hrs	@ 87.50	459.38
	Painter	1.50	Hrs	@ 125.00	187.50
					<u>5,432.88</u>
	Contractor's profit & overhead			20%	1,086.58
	Total Labour rate				<u>2,505.33</u>
					2,505
	2. Materials				
	M.S. sheet	32.39	Kg.	@ 75.00	2,429.01
	M.S. square/ round	61.19	Kg.	@ 80.00	4,894.86
	Other materials Same as in item 28-48-1				<u>7,829.02</u>
	Total				<u>15,152.88</u>
	3. Plant & Equipment				
	Welding machine	6.50	Hrs	@ 125.00	812.50
	Drill machine	1.50	Hrs	@ 60.00	90.00
	Sundries			5%	45.13
					<u>947.63</u>
	Total 2 + 3				<u>16,100.51</u>
	Contractor's profit & overhead			20%	3,220.10
	Total Composite rate				<u>9,929.97</u>
					9,930
Sq.m	b) M.S round bars 3/4" (19 mm) dia				
	Materials				
	Round bars 3/4" size 70 x 1.514	105.98	Lbs.	= 48.07	Kg.
	1. Labour				
	Total Labour rate Same as in item 28- 50(a)				2,505.35
					2,505
	2. Materials				
	M.S. sheet	37.80	Kg.	@ 75.00	2,835.00
	M.S. square/ round bars	50.00	Kg.	@ 80.00	4,000.00
	Other materials Same as in item 28-48-1				<u>7,829.02</u>
					<u>14,664.02</u>
	Contractor's profit & overhead			20%	2,932.80
	Total Composite rate				<u>9,267.56</u>
					9,268
Item No. 28- 51					
Providing and fixing iron grating in opening with flat iron 2" x 3/8" frame and 3/4" M.S. square or round bars placed at 4" c/c including two coats of black Japan paint.					
	Considering a grating 6' x 3'	18.00	Sq.ft.		
Sq.m.	a) M.S. sq. bars 3/4" (19 mm) size.				
	Flat iron frame 18 x 2 x 15.30	45.90	Lbs.	= 20.82	Kg.
	Square bars 3/4" size 51 x 1.927	98.28	Lbs.	= 44.58	Kg.
	1. Labour				
	Black smith	8.50	Hrs	@ 112.00	952.00
	Welder	1.25	Hrs	@ 125.00	156.25
	Labourer	4.00	Hrs	@ 87.50	350.00
	Hammer man	4.00	Hrs	@ 87.50	350.00
	Painter	1.00	Hrs	@ 125.00	125.00

Unit	Description						Component Cost	Unit Rate
							(Rs)	(Rs)
						1,933.25		
	Contractor's profit & overhead			20%		386.65		
	Total Labour rate					1,386.78	1,387	
	2. Materials							
	Flat iron	20.82	Kg.	@	80.00	1,665.61		
	M.S. square/ round bars	44.58	Kg.	@	80.00	3,566.25		
	Black Japan paint				2%	104.64		
	Total					5,336.50		
	3. Plant & Equipment							
	Welding machine	0.10	Hrs	@	125.00	12.50		
	Total					5,349.00		
	Contractor's profit & overhead			20%		1,069.80		
	Total Composite rate					5,223.80	5,224	
Sq.m	b) M.S round bars 3/4" (19 mm) dia							
	Materials							
	Round bars 3/4" size	51 x 1.514	77.21	Lbs.	=	35.02	Kg.	
	1. Labour							
	Total Labour rate	Same as in item 28- 51(a)					1,386.80	1,387
	2. Materials							
	Flat iron	20.82	Kg.	@	80.00	1,665.61		
	M.S. square/ round bars	32.00	Kg.	@	80.00	2,560.00		
	Black Japan paint				2%	84.51		
						4,310.12		
	Contractor's profit & overhead			20%		862.02		
	Total Composite rate					4,478.59	4,479	
	Item No. 28- 52							
	Providing and fixing iron grating for fire place with flat iron 2" x 1/4" frame and 1/2" M.S. square or round bars placed at 6" c/c including two coats of black Japan paint.							
	Considering a grating of 12" x 12"		1.00	Sq.ft.				
Sq.m.	a) M.S. sq. bars 1/2" (12 mm) size							
	Materials							
	Flat iron frame	4 x 2/12 x 10.20	6.80	Lbs.	=	3.08	Kg.	
	Square bars 1/2" size	5 x 0.855	4.28	Lbs.	=	1.94	Kg.	
	1. Labour							
	Welder		4.75	Hrs	@	125.00	593.75	
	Painter		1.00	Hrs	@	125.00	125.00	
						718.75		
	Contractor's profit & overhead			20%		143.75		
	Total Labour rate					862.50	863	
	2. Materials							
	Flat iron		22.80	Kg.	@	80.00	1,824.00	
	M.S. square/ round bars		1.94	Kg.	@	80.00	155.13	
	Black Japan paint				2%	39.58		
	Total					2,018.71		
	Contractor's profit & overhead			20%		403.74		
	Total Composite rate					3,284.96	3,285	
Sq.m	b) M.S round bars 1/2" (12 mm) dia							
	Materials							
	Round bars 1/2" size	5 x 0.67	3.35	Lbs.	=	1.52	Kg.	
	1. Labour							
	Total Labour rate	Same as in item 28- 52(a)					862.50	863

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

2. Materials

Flat iron	28.00	Kg.	@	80.00	2,240.00
M.S. square/ round bars	9.20	Kg.	@	80.00	736.00
Black Japan paint				2%	59.52

 3,035.52

Contractor's profit & overhead

20%

607.10

Total Composite rate

 3,039.98

3,040

Item No. 28- 53

Providing and fixing stair railing of 3" (75mm) size of all types and design of shesham wood or similar including bends and corners, screwed to 5/8" (16mm) square or round bars, 2.75 ft (0.84m) high, 5.5" (140mm) c/c in steps including welding of M.S. flat 1"x1/8" to bars and three coats of painting and polishing

Detail of cost for 100 R.ft

R.M. a) M.S. sq. bars 5/8" (16 mm) size

Materials

Sq. bars 5/8" size	218 x 2.75/3.281x 1.992	363.98	Kg.		
Shisham+15%	100 x 0.25 x 0.25 x 1.2	7.19	Cu.ft		
M.S. flat 1" x 1/8"	100 x 1/12 x 5.1/2.2	19.32	Kg.		
Iron screws	100 x 12/5.5	218.18	Nos.		
Painting iron bars	218 x 2.75 x 4 x 5/8	11.61	Sq.m.		
Polishing wood	100 x 4 x 0.25/10.76	9.29	Sq.m.		
Cement mortar	218 / 50	4.36	Cu.ft.		

1. Labour

Carpenter	40.00	Hrs	@	125.00	5,000.00
Black smith	16.00	Hrs	@	112.00	1,792.00
Mason	16.00	Hrs	@	125.00	2,000.00
Driller	16.00	Hrs	@	87.50	1,400.00
Welder	16.00	Hrs	@	125.00	2,000.00
Fitter	8.00	Hrs	@	87.50	700.00
Helper	32.00	Hrs	@	75.00	2,400.00
Hammer man	12.00	Hrs	@	87.50	1,050.00
Painter	16.00	Hrs	@	125.00	2,000.00

 18,342.00

Contractor's profit & overhead

20%

3,668.40

Total Labour rate

 721.94

722

2. Materials

M.S. square/ round bars	363.98	Kg.	@	80.00	29,118.05	A
Other materials						
Wood - Shisham	7.19	Cu.ft	@	2000.00	14,375.00	
Sawing charges	7.19	Cu.ft.	@	87.50	628.91	
Flat iron	19.32	Kg.	@	80.00	1,545.45	
Iron screw 3"	218.18	No.	@	10.00	2,181.82	
Painting iron bars	11.61	Sq.m.	@	137.30	1,593.70	
Polishing wood	9.29	Sq.m.	@	375.60	3,490.71	
Mortar 1: 4	4.36	Cu.ft.	@	137.05	597.55	

 24,413.13

B

Total A + B

53,531.18

3. Plant & Equipment

Welding machine	16.00	Hrs	@	125.00	2,000.00
Drill machine	16.00	Hrs	@	60.00	960.00
Sundries				5%	148.00

 3,108.00

Total 2 + 3

 56,639.18

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	11,327.84	
	Total Composite rate		2,951.94	2,952
Sq.m	b) M.S round bars 5/8" (16 mm) dia			
	Round bars 5/8" size 218 x 2.75 x 1.564/3.281	285.77	Kg.	
	1. Labour			
	Total Labour rate Same as in item 28- 53(a)		721.95	722
	2. Materials			
	M.S. square/ round bars	285.77	Kg. @ 80.00	22,861.76
	Other materials Same as in item 28- 53(a)			24,413.13
				47,274.89
	3. Plant & Equipment Same as in item 28- 53(a)			3,108.00
	Total 2 + 3			50,382.89
	Contractor's profit & overhead	20%	10,076.58	
	Total Composite rate		2,705.63	2,706
	Item No. 28- 54			
	Providing and fixing terrace railing of 2" (50mm) internal dia steel pipe welded with square or round bars 2.75 ft high at 5" c/c and embedded in reinforced cement concrete as per design and drawing including cost of cement mortar 1:4 and two coats of paint.			
	Detail of cost for 100 R.ft			
R.M.	a) M.S. sq. bars 5/8" (16 mm) size			
	Materials			
	Steel pipe 2" dia. 100 / 3.281	30.48	R.M.	
	Sq. bars 5/8" size 240 x 2.75/3.281x 1.992	400.71	Kg.	
	Painting iron bars 240 x2.75 x4 x5/8 x1/12	12.78	Sq.m.	
	Painting pipes 22/7x100 x2/12/10.76	4.87	Sq.m.	
	Cement mortar 240 / 50	4.80	Cu.ft.	
	1. Labour			
	Black smith	20.00	Hrs @ 112.00	2,240.00
	Mason	20.00	Hrs @ 125.00	2,500.00
	Driller	20.00	Hrs @ 87.50	1,750.00
	Welder	20.00	Hrs @ 125.00	2,500.00
	Hammer man	20.00	Hrs @ 87.50	1,750.00
	Painter	32.00	Hrs @ 125.00	4,000.00
				14,740.00
	Contractor's profit & overhead	20%	2,948.00	
	Total Labour rate		580.17	580
	2. Materials			
	M.S. square/ round bars	400.71	Kg. @ 80.00	32,056.57 A
	Other materials			
	Steel pipe 50 mm.	30.48	R.M. @ 120.00	3,657.42
	Painting iron bars	12.78	Sq.m. @ 137.30	1,754.53
	Painting pipes	4.87	Sq.m. @ 228.60	1,112.85
	Mortar 1: 4	4.80	Cu.ft. @ 137.05	657.85
				7,182.65 B
	Total A + B			39,239.22
	3. Plant & Equipment			
	Welding machine	10.00	Hrs @ 125.00	1,250.00
	Drill machine	20.00	Hrs @ 60.00	1,200.00
	Sundries		5%	122.50
				2,572.50
	Total 2 + 3			41,811.72
	Contractor's profit & overhead	20%	8,362.34	
	Total Composite rate		2,226.36	2,226
Sq.m	b) M.S round bars 5/8" (16 mm) dia			

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Materials				
Round bars 5/8" size	240 x 2.75 x 1.564/3.281	314.61	Kg.	
1. Labour				
Total Labour rate	Same as in item 28- 54(a)			580.15
				580
2. Materials				
M.S. square/ round bars		20.00	Kg. @ 80.00	1,600.00
Other materials	Same as in item 28- 54(a)			7,182.65
				8,782.65
3. Plant & Equipment	Same as in item 28- 54(a)			2,572.50
Total 2 + 3				11,355.15
Contractor's profit & overhead			20%	2,271.03
Total Composite rate				1,027.23
				1,027

Item No. 28- 55

Providing and fixing stair railing of 2.5" (65mm) internal dia steel pipe welded with bars 6" c/c and embedded in reinforced cement concrete steps as per design and drawing including cost of cement mortar 1:4 and two coats of paint.

Detail of cost for 100 R.ft

R.M. a) M.S. sq. bars 5/8" (16 mm) size

Materials				
Steel pipe 2.5" dia.	100 / 3.281	30.48	R.M.	
Sq. bars 5/8" size	200 x 2.75/3.281x 1.992	333.92	Kg.	
Painting iron bars	200 x2.75 x4 x5/8 x1/12	10.65	Sq.m.	
Painting pipes	22/7x100 x2.5/12/10.76	6.09	Sq.m.	
Cement mortar	200 / 50	4.00	Cu.ft.	
1. Labour				
Black smith		12.00	Hrs @ 112.00	1,344.00
Mason		12.00	Hrs @ 125.00	1,500.00
Driller		12.00	Hrs @ 87.50	1,050.00
Welder		12.00	Hrs @ 125.00	1,500.00
Hammer man		8.00	Hrs @ 87.50	700.00
Painter		12.00	Hrs @ 125.00	1,500.00
				7,594.00
Contractor's profit & overhead			20%	1,518.80
Total Labour rate				298.90
				299
2. Materials				
M.S. square/ round bars		333.92	Kg. @ 80.00	26,713.81 A
Other materials				
Steel pipe 65 mm. dia.		30.48	R.M. @ 197.00	6,004.27
Painting iron bars		10.65	Sq.m. @ 137.30	1,462.11
Painting pipes		6.09	Sq.m. @ 228.60	1,391.06
Mortar 1: 4		4.00	Cu.ft. @ 137.05	548.21
				9,405.65 B
Total A + B				36,119.45
3. Plant & Equipment				
Welding machine		8.40	Hrs @ 125.00	1,050.00
Drill machine		8.00	Hrs @ 60.00	480.00
Sundries				0.05
				76.50
Total 2 + 3				1,606.50
Contractor's profit & overhead			20%	37,725.95
Total Composite rate				7,545.19
				1,784

Sq.m b) M.S round bars 5/8" (16 mm) dia

Round bars 5/8" size 200 x 2.75 x 1.564/3.281 262.18 Kg.

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
1. Labour			
Total Labour rate	Same as in item 28- 55(a)	298.90	299
2. Materials			
M.S. square/ round bars	262.18 Kg. @ 80.00	20,974.09	
Other materials	Same as in item 28- 55(a)	9,405.65	
		30,379.74	
3. Plant & Equipment	Same as in item 28- 55(a)	2,572.50	
Total 2 + 3		32,952.24	
Contractor's profit & overhead	20%	6,590.45	
Total Composite rate		1,596.30	1,596

Item No. 28- 56-1

R.M. Providing and fixing M.S angle iron 1/1/2" x1/1/2" x1/4" edge protector nozing for steps of stairs having hold fast of 1/4" dia M.S. bars 6" long welded at 10" c/c or 3 Nos. in each step and embeded in cement concrete on steps.

Detail of cost for one R.M. step	0.12	Kg.			
M.S. angle iron	0.90 x 2.19	1.97	Kg.		
Hold fast	3 x0.5 x1/3.28 x0.25	0.11	Kg.		
1. Labour					
Black smith	0.62	Hrs	@	112.00	69.44
Mason	0.20	Hrs	@	125.00	25.00
Driller	0.25	Hrs	@	87.50	21.88
					116.32
Contractor's profit & overhead				20%	23.26
Total Labour rate					139.58
					140
2. Materials					
Angle iron	1.97	Kg.	@	74.00	145.85
Hold fast	0.11	Kg.	@	75.00	8.61
Mortar 1: 4				5%	7.30
					161.76
3. Plant & Equipment					
Drill machine	2.53	Hrs	@	60.00	151.80
Total 2 + 3					313.56
Contractor's profit & overhead				20%	62.71
Total Composite rate					515.85
					516

Item No. 28- 57-1

Sq.m. Providing and fixing G.I. wire gauze 24 SWG (1.06mm), 2.1mm x 2.1mm mesh fixed with flat iron 1/2"x1/8" at 15" c/c and screwed at 6" c/c to steel windows, doors and grill including painting.

Considering a window 5' x 7'	35.00	Sq.ft.			
G.I. Wire gauze	35.00	Sq.ft.			
Flat iron 1/8"	5/7 x 0.5/12 x 5.1/2.2	3.38	Kg.		
Iron screw	15 x 5	75.00	No.		
Painting	2 x 7 x 5 x 0.5/12	2.92	Sq.ft.		
1. Labour					
Black smith	6.10	Hrs	@	112.00	683.20
Driller	5.00	Hrs	@	87.50	437.50
Painter				5%	56.04
					1,176.74
Contractor's profit & overhead				20%	235.35
Total Labour rate					434.11
					434
2. Materials					
G.I. wire gauge	35.00	Sq.ft.	@	130.00	4,550.00
Flat iron	3.38	Kg.	@	80.00	270.40
Hold fast	0.11	Kg.	@	75.00	8.61

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
Iron screw 3/4"	75.00	No.	@	7.00	525.00	
Painting	2.92	Sq.ft.	@	12.76	37.22	
					<u>5,391.23</u>	
3. Plant & Equipment						
Drill machine	0.50	Hrs	@	60.00	30.00	
Total 2 + 3					<u>5,421.23</u>	
Contractor's profit & overhead				20%	1,084.25	
Total Composite rate					<u>2,434.08</u>	2,434

Item No. 28- 58

Providing & fixing steel windows with openable glazed panels using beam section for frame 1.5"x1"x5/8"x1/8" z-section for leave 3/4"x1"x3/4"x1/8" T-section sashes 1"x1"x1/8 " glass panes, wooden screws for glazing embedded over a thin layer of putty duty screwed with leave with fittings of approved make including cost of painting, hold fast, fabrication, cutting holes as per approved design.

Considering a window 6-0' x 4-0'	24.00	Sq.ft.		
Flat iron 1/8" thick 3.125 /12 x 32	8.33	Sq.ft.		
z-section 1/8" thick 2.5"/12 x 44	9.17	Sq.ft.		
Sashes 1/8" thick 2"/12 x 32	5.33	Sq.ft.		
Hane 4 Nos. 4 x 1/12 x 6/12	0.17	Sq.ft.		
	<u>23.00</u>	Sq.ft.		
Wastage @ 5%	1.15	Sq.ft.		
	<u>24.15</u>	Sq.ft.		
	24.14 x 5.10/2.2	55.96	Kg.	
Glass +10% wastage 4x1.33x3.79	22.18	Sq.ft.		

a) Without wire gauze**Sq.m. i) With glass 3 mm thick**

1. Labour						
Black smith	4.55	Hrs	@	112.00	509.60	
Welder	3.00	Hrs	@	125.00	375.00	
Helper	3.00	Hrs	@	75.00	225.00	
Mason	2.00	Hrs	@	125.00	250.00	
Glazier	2.50	Hrs	@	125.00	312.50	
Labourer	2.50	Hrs	@	87.50	218.75	
Painter	0.75	Hrs	@	125.00	93.75	
					<u>889.76</u>	
Contractor's profit & overhead				20%	177.95	
Total Labour rate					<u>1,067.71</u>	1,068
2. Material						
Glass 3 mm thick plain (local)	22.18	Sq.ft.	@	75.00	1,663.43	A
Other materials						
Flat iron	33.50	Kg.	@	80.00	2,680.00	
Hold fast	4.00	No.	@	25.00	100.00	
Hinges (bolts)	8.00	No.	@	112.50	900.00	
Clamp screw	96.00	No.	@	8.40	806.40	
Oil putty	0.07	Kg.	@	90.00	6.12	
Wood - Partal	0.02	Cu.ft	@	1200.00	24.00	
Painting	48.20	Hrs	@	12.76	615.04	
Mortar 1 : 4	0.33	Cu.ft	@	137.05	45.23	
Total					<u>5,176.79</u>	B
Total A + B					6,840.22	
3. Plant & Equipment						
Welding plant	3.00	Hrs	@	125.00	375.00	
Total 2 + 3					<u>7,215.22</u>	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	1,443.04	
	Total Composite rate		4,949.51	4,950
Sq.m. ii) With glass 5 mm thick				
1. Labour				
	Total Labour rate	Same as in item 28-58 (a)	1,067.70	1,068
2. Material				
	Glass 5 mm thick plain (local)	22.18	Sq.ft. @ 120.00	2,661.49
	Other materials	Same as in item 28-58 (a)		5,176.79
				7,838.28
	3. Plant & Equipment	Same as in item 28-58 (a)		375.00
	Total 2 + 3			8,213.28
	Contractor's profit & overhead	20%	1,642.66	
	Total Composite rate		5,486.45	5,486
Sq.m. iii) With glass 6 mm thick				
1. Labour				
	Total Labour rate	Same as in item 28-58 (a)	1,067.70	1,068
2. Material				
	Glass 6 mm thick plain (local)	22.18	Sq.ft. @ 125.46	2,782.69
	Other materials	Same as in item 28-58 (a)		5,176.79
				7,959.48
	3. Plant & Equipment	Same as in item 28-58 (a)		375.00
	Total 2 + 3			8,334.48
	Contractor's profit & overhead	20%	1,666.90	
	Total Composite rate		5,551.65	3,545
b) With G.I. wire gauze 22 gauge - 12 mesh				
Materials				
	Wire gauze	6' x 4'	24.00	Sq.ft.
	Flat iron 1/8" thick	32 x 0.5/12 x 5.10/2.2	3.09	Kg.
	Iron screws		64.00	No.
	Painting	2 x 32 x 0.5/12	2.67	Sq.ft.
1. Labour				
	Black smith		2.00	Hrs @ 112.00
	Driller		0.75	Hrs @ 87.50
	Painter		0.20	Hrs @ 125.00
	Labour rate			314.63
2. Material				
	G.I. wire gauge	24.00	Sq.ft. @ 130.00	3,120.00
	Flat iron	3.09	Kg. @ 80.00	247.27
	Iron screw 3/4"	64.00	No. @ 7.00	448.00
	Painting	2.67	Sq.ft. @ 12.76	34.03
	Mortar 1 : 4	0.33	Cu.ft @ 137.05	45.23
	Total			3,894.53
3. Plant & Equipment				
	Driller	0.75	Hrs @ 87.50	65.63
Sq.m. i) Glass 3 mm thick				
1. Labour				
	Labour for window	Same as in item 28-58 (a)	889.76	
	Labour for fixing	Same as in item 28-58 (b)	314.63	
			1,204.39	

Unit	Description		Component Cost	Unit Rate
			(Rs)	(Rs)
	Contractor's profit & overhead	20%	240.88	
	Total Labour rate		1,445.26	1,445
	2. Material			
	Mats. for window etc. Same as in item 28-58 (a)1		5,176.79	
	Mats. for fixing gauze Same as in item 28-58 (b)		3,894.53	
			9,071.32	
	3. Plant & Equipment			
	Equip. for window etc. Same as in item 28-58 (a)1		375.00	
	Equip. for fixing gauze Same as in item 28-58 (b)		65.63	
			440.63	
	Total 2 + 3		9,511.95	
	Contractor's profit & overhead	20%	1,902.39	
	Total Composite rate		6,562.69	6,563
Sq.m.	ii) Glass 5 mm thick			
	1. Labour			
	Total Labour rate Same as in item 28-58 (b)1		1,445.25	1,445
	2. Material			
	Mats. for window etc. Same as in item 28-58 (a)2		7,838.28	
	Mats. for fixing gauze Same as in item 28-58 (b)		3,894.53	
			11,732.81	
	3. Plant & Equipment			
	Equip. for window etc. Same as in item 28-58 (b)1		440.63	
	Total 2 + 3		12,173.44	
	Contractor's profit & overhead	20%	2,434.69	
	Total Composite rate		7,994.56	7,995
Sq.m.	iii) Glass pane 6 mm thick			
	1. Labour			
	Total Labour rate Same as in item 28-58 (b)1		1,445.25	1,445
	2. Material			
	Mats. for window etc. Same as in item 28-58 (a)3		7,959.48	
	Mats. for fixing gauze Same as in item 28-58 (b)		3,894.53	
			11,854.01	
	3. Plant & Equipment			
	Equip. for window etc. Same as in item 28-58 (b)1		440.63	
	Total 2 + 3		12,294.64	
	Contractor's profit & overhead	20%	2,458.93	
	Total Composite rate		8,059.76	8,060

Item No. 28- 59-1

R.M. Providing and fixing angle iron railing using 2.5"x 2.5"x 3/8" angle iron post 5 ft long and 5 ft. apart with 2.5"x 2.5"x 3/8" angle iron top railing and two rows of M.S. flat 2.5"x 1/4" including fixing side of bridge/structure with 3/4" dia. U bolts and painting.

Detail of cost for 100 Rft.

Materials

Angle iron posts	21 x 5	105.00	Ft.
Top railing		100.00	Ft.
Wastage @ 5%		10.25	Ft.
		215.25	Ft.
	215.25/3.28 x 8.67	568.97	Kg.
M.S. flat 2.5" x 1/4"	2x100x2.5/12x10.2x1.05	202.42	Kg.
U bolts 3/4" dia	1 x 2.235	2.24	Kg.
Painting	2 x 5/12"x213.38	16.53	Sq.m.
Painting	2x2x100x2.5/12	7.74	Sq.m.
		24.27	Sq.m.

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	
1. Labour					
Black smith	30.00	Hrs	@ 112.00	3,360.00	
Helper	30.00	Hrs	@ 75.00	2,250.00	
Mason	20.00	Hrs	@ 125.00	2,500.00	
Driller	3.50	Hrs	@ 87.50	306.25	
				<u>8,416.25</u>	
Contractor's profit & overhead				20%	1,683.25
Total Labour rate				<u>331.36</u>	331
2. Material					
Angle iron	568.97	Kg.	@ 74.00	42,103.69	
Flat iron	202.42	Kg.	@ 80.00	16,193.41	
U bolt 3/4" dia.	2.24	Kg.	@ 82.00	183.27	
Painting	204.65	Hrs	@ 12.76	2,611.41	
				<u>61,091.79</u>	
Contractor's profit & overhead				20%	12,218.36
Total Composite rate				<u>2,736.67</u>	2,737

Item No. 28- 60

Providing and fixing barbed wire fencing comprising 1.5"x 1.5"x 3/16" angle iron post 3 ft long, 4 ft c/c embeded in cement concrete 1:4:8 base of 9"x 9"x 12" size with three rows of barbed wire 6" c/c including binding wire and painting of posts.

Detail of cost for 100 R.ft.

R.M. a) Barbed wire 2 ply, 14 guage (1.8 mm) thick

Materials

Angle iron posts	22.00	Nos.			
Wastage @ 5%	1.10	Nos.			
	23.10	Nos.			
Weight	23.10 x 2.64	60.98	Kg.		
Cement concrete	22x0.75x0.75x1.0	12.38	Cu.ft	= 0.35	Cu.m.
Excavation		12.38	Cu.ft	= 0.35	Cu.m.
Painting	22x3.28x2x3/12	36.08	Sq.ft.	= 3.35	Sq.m.
Bar. wire+5%	3 x 100 x 1.05	315.00	Ft.		
Weight	315x112/1700x1/2.2	9.43	Kg.		

1. Labour

Black smith	6.00	Hrs	@ 112.00	672.00
Mason	4.00	Hrs	@ 125.00	500.00
Labourer	8.00	Hrs	@ 87.50	700.00
Bahishti	0.50	Hrs	@ 87.50	43.75
				<u>1,915.75</u>

Contractor's profit & overhead

				20%	383.15
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Total Labour rate

75.43

75

2. Material

Barbed wire (16 Guage)	9.43	Kg	@ 130.00	1,226.31	
Other materials					
Angle iron	60.98	Kg.	@ 74.00	4,512.82	
Binding wire	0.50	Kg.	@ 90.00	45.00	
Cement concrete	Rate as in item 5-11(c)	0.35	Cu.m.	@ 4623.73	1,620.47
Excavation	Rate as in item 3-21(b)	0.35	Cu.m.	@ 207.38	72.68
Painting		36.08	Sq.ft.	@ 12.76	460.39
				<u>6,711.35</u>	

7,937.66

Contractor's profit & overhead

				20%	1,587.53
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Total Composite rate

387.95

388

R.M. b) Barbed wire 3 ply, 12 gauge (2.17 mm) thick

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Materials

Weight of barbed wire	315x112/1410x1/2.2	11.37	Kg.		
1. Labour					
Total Labour rate	Same as in item 28-60(a)			75.45	75
2. Material					
Barbed wire 3 ply		11.37	Kg @	175.00	1,990.33
Other materials					
Same as in item 28-60(a)					
				6,711.35	
				8,701.68	
Contractor's profit & overhead				20%	1,740.34
Total Composite rate				418.05	418

Item No. 28- 61-1

R.M. Providing and fixing barbed wire fencing around compound wall comprising 1.5"x 1.5"x 3/16" angle iron posts 3 ft long and 4ft apart embedded in cement concrete 1:4:8 base of 6"x 6"x 9" size and 4 rows of 2 ply, 14 gauge barbed wire 6" c/c including binding wire and painting of posts.

Detail of cost for 100 R.ft.

Materials

Angle iron posts		26.00	Nos.		
Wastage @ 5%		1.30	Nos.		
		27.30	Nos.		
Weight	27.3 x 2.64	72.07	Kg.		
Cement concrete	26 x 0.5 x 0.5 x 0.75	4.88	Cu.ft =	0.14	Cu.m.
Excavation		4.88	Cu.ft =	0.14	Cu.m.
Painting	26x3.28x2x3/12	42.64	Sq.ft. =	3.96	Sq.m.
Barb. wire+5%	4 x 100 x 1.05	420.00	Ft.		
Weight	420x112/1700x1/2.2	12.58	Kg.		
1. Labour					
Black smith		9.00	Hrs @	112.00	1,008.00
Mason		3.00	Hrs @	125.00	375.00
Labourer		7.00	Hrs @	87.50	612.50
Bahishti		0.50	Hrs @	87.50	43.75
				2,039.25	
Contractor's profit & overhead				20%	407.85
Total Labour rate				80.29	80
2. Material					
Barbed wire (16 Gauge)		12.58	Kg @	130.00	1,635.08
Other materials					
Angle iron		72.07	Kg. @	74.00	5,333.33
Binding wire		0.50	Kg. @	90.00	45.00
Cement concrete	Rate as in item 5-11(c)	0.14	Cu.m. @	4623.73	638.37
Excavation	Rate as in item 3-21(b)	0.14	Cu.m. @	207.38	28.63
Painting		42.64	Sq.ft. @	12.76	544.10
				6,589.42	
				8,224.50	
Contractor's profit & overhead				20%	1,644.90
Total Composite rate				404.10	404

Item No. 28- 62

Providing and fixing barbed wire fencing with 4 horizontal and 2 cross wires with R.C.C. posts 5'- 6"x 6"x 9", 8.25 ft c/c reinforced with 4 No. 3/8" dia. vertical bars and 1/8" dia. stirrups at 12" c/c.

Detail of cost for 100 R.ft.

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

a) Without cement concrete base

R.M. i) Barbed wire 2 ply, 14 gauge (1.8 mm) thick

Materials						
R.C.C. posts 1:2:4		12.00	Nos.			
Cement concrete	12 x 5.5 x 0.5 x 0.75	24.75	Cu.ft	=	0.70	Cu.m.
Reinforcement						
3/8" dia. bars	12x 4x 5.33/3.281x0.562	43.82	Kg.			
1/8" dia. stirrups	12 x 6 x 2/3.281 x 0.063	2.77	Kg.			
Total + 5% wastage		48.92	Kg.			
Barbed wire						
4 horizontal	4 x 100	400.00				
2 cross wire	11 x 2 x 8.94	196.68				
Wastage @ 5%		29.83				
Total barbed wire		626.51	Ft.			
Weight	626.51x112/1700x1/2.2	18.76	Kg.			
1. Labour						
Black smith		20.00	Hrs	@	112.00	2,240.00
Mason		12.50	Hrs	@	125.00	1,562.50
Labourer		4.00	Hrs	@	87.50	350.00
Bahishti		0.50	Hrs	@	87.50	43.75
						4,196.25
Contractor's profit & overhead					20%	839.25
Total Labour rate						165.21
						165
2. Material						
Barbed wire (16 Gauge)		18.76	Kg	@	130.00	2,439.03
Other materials						
Concrete 1:2:4	Rate as per item 5-17(a)1	0.50	Cu.m.	@	8338.90	4,169.45
Mild steel bars(G-40)		48.92	Kg	@	88.00	4,304.70
						8,474.15
Total						10,913.18
Contractor's profit & overhead					20%	2,182.64
Total Composite rate						594.89
						595

R.M. ii) Barbed wire 3 ply, 14 gauge (1.8 mm) thick

Materials						
Weight of barbed wire	626.51x112/1700/2.2x1.5	28.14	Kg.			
1. Labour						
Total Labour rate	Same as in item 28-62(a)					165.20
						165
2. Material						
Barbed wire 3 ply		28.14	Kg	@	175.00	4,924.97
Other materials						
Same as in item 28-62(a)1						8,474.15
						13,399.12
Contractor's profit & overhead					20%	2,679.82
Total Composite rate						692.75
						693

R.M. iii) Barbed wire 2 ply, 12 gauge (2.17 mm) thick

Materials						
Weight of barbed wire	626.51x112/1410/2.2	22.62	Kg.			
1. Labour						
Total Labour rate	Same as in item 28-62(a)					165.20
						165
2. Material						
Barbed wire (16 Gauge)		22.62	Kg	@	175.00	3,958.61
Other materials						

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	Same as in item 28-62(a)1		8,474.15		
			<u>12,432.75</u>		
	Contractor's profit & overhead	20%	2,486.55		
	Total Composite rate		<u>654.70</u>		655
R.M.	iv) Barbed wire 3 ply, 12 gauge (2.17 mm) thick				
	Weight of barbed wire 626.51x112/1410/2.2x1.5	33.93	Kg.		
	1. Labour				
	Total Labour rate	Same as in item 28-62(a)		165.20	165
	2. Material				
	Barbed wire (16 Gauge)	33.93	Kg @ 175.00	5,937.91	
	Other materials				
	Same as in item 28-62(a)1			<u>8,474.15</u>	
				14,412.06	
	Contractor's profit & overhead	20%	2,882.41		
	Total Composite rate		<u>732.63</u>		733
	b) With 1 : 4 : 8 cement concrete base of 12" x12" x 21" size				
R.M.	i) Barbed wire 2 ply, 14 gauge (1.8 mm) thick				
	Materials				
	For base				
	Excavation	12 x 1' x 1' x 1.75'	21.00	Cu.ft = 0.59	Cu.m.
	Concrete 1:4:8	12 x 1' x 1' x 1.75'	21.00	Cu.ft = 0.59	Cu.m.
	1. Labour				
	Total Labour rate	Same as in item 28-62(a)		165.20	165
	2. Material				
	Cement concrete	Rate as in item 5-11(c)	0.59	Cu.m. @ 4623.73	2,749.88
	Excavation	Rate as in item 3-21(b)	0.59	Cu.m. @ 207.38	123.33
	Barbed wire (16 Gauge)	18.76	Kg @ 130.00	<u>2,439.03</u>	
	Other materials				
	Same as in item 28-62(a)1			<u>8,474.15</u>	
	Total			13,786.40	
	Contractor's profit & overhead	20%	2,757.28		
	Total Composite rate		<u>708.00</u>		708
R.M.	ii) Barbed wire 3 ply, 14 gauge (1.8 mm) thick				
	Materials				
	Weight of barbed wire 626.51x112/1700/2.2x1.5	28.14	Kg.		
	1. Labour				
	Total Labour rate	Same as in item 28-62(a)		165.20	165
	2. Material				
	Cement concrete	Rate as in item 5-11(c)	0.59	Cu.m. @ 4623.73	2,749.88
	Excavation	Rate as in item 3-21(b)	0.59	Cu.m. @ 207.38	123.33
	Barbed wire 3 ply	28.14	Kg @ 175.00	<u>4,924.97</u>	
	Other materials				
	Same as in item 28-62(a)1			<u>8,474.15</u>	
				16,272.33	
	Contractor's profit & overhead	20%	3,254.47		
	Total Composite rate		<u>805.87</u>		806
R.M.	iii) Barbed wire 2 ply, 12 gauge (2.17 mm) thick				
	Materials				
	Weight of barbed wire 626.51x112/1410/2.2	22.62	Kg.		
	1. Labour				

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Total Labour rate	Same as in item 28-62(a)		165.20	165
2. Material				
Cement concrete	Rate as in item 5-11(c)	0.59	Cu.m. @ 4623.73	2,749.88
Excavation	Rate as in item 3-21(b)	0.59	Cu.m. @ 207.38	123.33
Barbed wire (16 Gauge)		22.62	Kg @ 175.00	3,958.61
Other materials				
Same as in item 28-62(a)1				8,474.15
				15,305.97
Contractor's profit & overhead			20%	3,061.19
Total Composite rate				767.83

R.M. iv) Barbed wire 3 ply, 12 gauge (2.17 mm) thick

Materials

Weight of barbed wire 626.51x112/1410/2.2x1.5 33.93 Kg.

1. Labour

Total Labour rate Same as in item 28-62(a) 165.20 165

2. Material

Cement concrete Rate as in item 5-11(c) 0.59 Cu.m. @ 4623.73 2,749.88

Excavation Rate as in item 3-21(b) 0.59 Cu.m. @ 207.38 123.33

Barbed wire (16 Gauge) 33.93 Kg @ 175.00 5,937.91

Other materials

Same as in item 28-62(a)1 8,474.15

17,285.27

Contractor's profit & overhead 20% 3,457.05

Total Composite rate 845.76 846**Item No. 28- 63**

Providing and fixing barbed wire fencing with 4 horizontal and 2 cross wires fixed with 7'x9"x9" R.C.C.1:2:4 posts at 100 ft (30m) c/c, stiffening posts 7'x6"x6" at 50 ft (15m) interval and intermediate post 7'x5"x5" at 8.25 ft (2.5m) vertical bars in straining and stiffening posts to be 4 Nos. 3/8" dia, stirrups for all posts to be 1/4" dia at 12" c/c including cost of eye bolts, washers and steel reinforcement and its fabrication and placing.

Details of cost for 1000 Rft.

a) Without cement concrete base**R.M. i) Barbed wire 2 ply, 14 gauge (1.8 mm) thick**

Materials

RCC straining posts 11x7.0x0.75x0.75 43.31 Cu.ft

Stiffening posts 21x7.0x0.5x0.5 36.75 Cu.ft

Intermediate posts 120x7.0x0.42x0.42 148.18 Cu.ft

228.24

Cu.ft = 6.46 Cu.m.

Steel reinforcement

Straining posts

Vertical bars 1/2" dia 11x4x4.83 212.52

Stirrup bars 1/4" dia 11x7x2.50 192.50

Stiffening posts:

Vertical bars 1/2" dia 21x4x6.83 573.72

Stirrup bars 1/4" dia 21x7x1.50 220.50

Intermediate posts:

Vertical bars 3/8" dia 120x4x6.83 3278.40

Stirrup bars 1/4" dia 120x7x1.17 982.80

1/2" dia bars 786.24 x 1/3.28 239.71 Kg.

3/8" dia bars 3278.4 x .562/3.28 561.73 Kg.

1/4" dia bars 1395.8 x 0.251/3.28 106.81 Kg.

Total 908.25 Kg.

Unit	Description				Component Cost		Unit Rate
					(Rs)		(Rs)
	Barbed wire						
	4 horizontal	4x1000	4000.00	R.ft.			
	2 cross wire	120x2x10	2400.00	R.ft.			
	Wastage 5%		320.00	R.ft.			
			<u>6720.00</u>	R.ft.			
	Weight	6720x112/1700x1/2.2	201.24	Kg.			
	1. Labour						
	Black smith		240.00	Hrs @	112.00	26,880.00	
	Mason		158.00	Hrs @	125.00	19,750.00	
	Labourer		50.00	Hrs @	87.50	4,375.00	
	Bahishti		10.00	Hrs @	87.50	875.00	
						<u>51,880.00</u>	
	Contractor's profit & overhead				20%	10,376.00	
	Total Labour rate					<u>204.26</u>	204
	2. Material						
	Barbed wire (16 Guage)		201.24	Kg @	130.00	26,161.28	
	Other materials						
	Concrete 1:2:4	Rate as per item 5-17(a)1	6.46	Cu.m. @	8338.90	53,901.37	
	Mild steel bars (G-40)		908.25	Kg @	88.00	79,925.64	
						<u>133,827.01</u>	
	Total					<u>159,988.29</u>	
	Contractor's profit & overhead				20%	31,997.66	
	Total Composite rate					<u>834.17</u>	834
	ii) Barbed wire 3 ply, 14 gauge (1.8 mm) thick						
	Weight of barbed wire	6720x112/1700/2.2x1.5	301.86	Kg.			
	1. Labour						
	Total Labour rate	Same as in item 28-63(a)				204.25	204
	2. Material						
	Barbed wire 3 ply		301.86	Kg @	175.00	52,825.67	
	Other materials						
	Same as in item 28-63(a)					<u>133,827.01</u>	
						<u>186,652.68</u>	
	Contractor's profit & overhead				20%	37,330.54	
	Total Composite rate					<u>939.14</u>	939
R.M.	iii) Barbed wire 2 ply, 12 gauge (2.17 mm) thick						
	Materials						
	Weight of barbed wire	6720x112/1410/2.2	242.63	Kg.			
	1. Labour						
	Total Labour rate	Same as in item 28-62(a)				204.25	204
	2. Material						
	Barbed wire (16 Guage)		242.63	Kg @	175.00	42,460.35	
	Other materials						
	Same as in item 28-63(a)					<u>133,827.01</u>	
						<u>176,287.36</u>	
	Contractor's profit & overhead				20%	35,257.47	
	Total Composite rate					<u>898.33</u>	898
R.M.	iv) Barbed wire 3 ply, 12 gauge (2.17 mm) thick						
	Materials						
	Weight of barbed wire	6720x112/1410/2.2x1.5	363.95	Kg.			
	1. Labour						
	Total Labour rate	Same as in item 28-63(a)				204.25	204

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	Barbed wire 3 ply	363.95	Kg @	175.00	63,690.52
	Other materials				
	Same as in item 28-63(a)				133,827.01
					<u>197,517.53</u>
	Contractor's profit & overhead			20%	39,503.51
	Total Composite rate				<u>981.92</u>
					982
	b) With 1 : 4 : 8 cement concrete base of 12" x12" x 21" size				
R.M.	i) Barbed wire 2 ply, 14 gauge (1.8 mm) thick				
	For base				
	Excavation	152 x 1' x 1' x 1.75'	266.00	Cu.ft =	7.53 Cu.m.
	Concrete 1:4:8	152 x 1' x 1' x 1.75'	266.00	Cu.ft =	7.53 Cu.m.
	1. Labour				
	Total Labour rate	Same as in item 28-63(a)			204.25
					204
	2. Material				
	Cement concrete	Rate as in item 5-13(e)	7.53	Cu.m. @	6712.29 50,565.54
	Excavation	Rate as in item 3-21(b)	7.53	Cu.m. @	207.38 1,562.21
	Barbed wire (16 Gauge)		201.24	Kg @	130.00 26,161.28
	Other materials				
	Same as in item 28-63(a)				133,827.01
	Total				<u>212,116.05</u>
	Contractor's profit & overhead			20%	42,423.21
	Total Composite rate				<u>1,039.39</u>
					1,039
R.M.	ii) Barbed wire 3 ply, 14 gauge (1.8 mm) thick				
	Weight of barbed wire	6720x112/1700/2.2x1.5	301.86	Kg.	
	1. Labour				
	Total Labour rate	Same as in item 28-63(a)			204.25
					204
	2. Material				
	Cement concrete	Rate as in item 5-13(e)	7.53	Cu.m. @	6712.29 50,565.54
	Excavation	Rate as in item 3-21(b)	7.53	Cu.m. @	207.38 1,562.21
	Barbed wire 3 ply		301.86	Kg @	175.00 52,825.67
	Other materials				
	Same as in item 28-63(a)				133,827.01
					<u>238,780.43</u>
	Contractor's profit & overhead			20%	47,756.09
	Total Composite rate				<u>1,144.38</u>
					1,144
R.M.	iii) Barbed wire 2 ply, 12 gauge (2.17 mm) thick				
	Weight of barbed wire	6720x112/1410/2.2	242.63	Kg.	
	1. Labour				
	Total Labour rate	Same as in item 28-63(a)			204.25
					204
	2. Material				
	Cement concrete	Rate as in item 5-13(e)	7.53	Cu.m. @	6712.29 50,565.54
	Excavation	Rate as in item 3-21(b)	7.53	Cu.m. @	207.38 1,562.21
	Barbed wire (16 Gauge)		242.63	Kg @	175.00 42,460.35
	Other materials				
	Same as in item 28-63(a)				133,827.01
					<u>228,415.11</u>
	Contractor's profit & overhead			20%	45,683.02
	Total Composite rate				<u>1,103.57</u>
					1,104

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

R.M. iv) Barbed wire 3 ply, 12 gauge (2.17 mm) thick

Weight of barbed wire	6720x112/1410/2.2x1.5	363.95	Kg.		
1. Labour					
Total Labour rate	Same as in item 28-63(a)			204.25	204
2. Material					
Cement concrete	Rate as in item 5-13(e)	7.53	Cu.m.	@ 6712.29	50,565.54
Excavation	Rate as in item 3-21(b)	7.53	Cu.m.	@ 207.38	1,562.21
Barbed wire (16 Gauge)		363.95	Kg	@ 175.00	63,690.52
Other materials					
Same as in item 28-63(a)					133,827.01
					249,645.29
Contractor's profit & overhead				20%	49,929.06
Total Composite rate					1,187.15

Item No. 28- 64-1

Providing and fixing steel windows with openable glazed pannels using 2"x 1.5" x1/8" M.S pipe for frame, 3/4"x1"x3/4"x1/8" Z section for leaves, 1"x1"x1/8" T-section sashes. The cost of wire gauze, glass panes and painting is not included.

Considering 6' x 4' size window		24.00	Sq.ft.		
Materials					
Hollow pipe					
Horizontal pipe	2 x 6	12.00	R.ft		
Vertical Pipe	5 x 3.75	18.75	R.ft		
					30.75
Z-section for leaves					
Horizontal Fixture	8 x 1.17	9.36	R.ft		
Vertical Fixture	8 x 3.59	28.72	R.ft		
T Section for sashes	4 x 2 x 1.17	9.36	R.ft		
				=	28.00
					Kg
1. Labour					
Black smith		3.00	Hrs	@ 112.00	336.00
Helper		3.00	Hrs	@ 75.00	225.00
Welder		2.00	Hrs	@ 125.00	250.00
Mason		2.00	Hrs	@ 125.00	250.00
Labourer		2.00	Hrs	@ 87.50	175.00
Bahishti		1.00	Hrs	@ 87.50	87.50
					1,323.50
Contractor's profit & overhead				20%	264.70
Total Labour rate					712.04
2. Materials					
M.S. pipe		30.75	R.M.	@ 350.00	10,762.50
Flat iron		28.00	Kg.	@ 80.00	2,240.00
Hinges (bolts)		8.00	No.	@ 112.50	900.00
Clamp screw		96.00	No.	@ 8.40	806.40
Wood - Partal		0.02	Cu.ft	@ 1200.00	24.00
Mortar 1: 4		0.33	Cu.ft.	@ 137.05	45.23
					14,778.13
3. Plant & Equipment					
Welding machine		3.00	Hrs	@ 125.00	375.00
Sundries				5%	18.75
					393.75
Total 2 + 3					15,171.88
Contractor's profit & overhead				20%	3,034.38
Total Composite rate					8,874.51

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 28- 65

Extra on all aluminium works on respective items if powdered coated colored aluminium is used

0

Item No. 28- 66

Kg

Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete in all respect as directed by the Engineer Incharge.

a) Hot finished welded type tubes

Details of cost for a truss of span 8 metre

weight = 119 kg.

Labour

For cutting, assembling & erection

Black smith	10	Hrs	@	112	1,120.00
Bahishti	4	Hrs	@	87.5	350.00
Labourer	16	Hrs	@	87.5	1,400.00
Sundries				4%	114.80
Total					2,984.80
Water charges				1.5%	44.77
Total					3,029.57
Contractor's profit & overhead				20%	605.91
					3,635.49

Total Labour rate

45.83

46

Materials

50mm dia. tube

Tie beam 1 x 8.0 = 8.00 m

Principal rafter 2 x 4.3 = 8.60 m

16.60 m

16.60m @ 5.10kg./m = 84.66 Kg

A

40mm dia. tube

Members = 2(0.45+1.25+0.90+2.15) 9.50 m

9.50m @ 3.61kg/m = 34.60Kg. 34.30 Kg

B

Total (A + B) 118.96 Kg

Add wastage @ 5% 5.95 Kg

124.90 Kg

Say 125.00 Kg

Priming coat

50mm dia. Tube 16.60 x 0.157m 2.61 sq.m

40mm dia. tube 9.50 x 0.125m 1.19 sq.m

3.79 sq.m

Welding charges:-

Rafter 4 x 22/7 x 6.03 75.78 cm

Ties 2 x 22/7 x 6.03 37.89 cm

Members 2x 4 x 2 x 22/7 x 4.83 242.78 cm

356.4 cm

Say 357.00 cm

Hot finished welded tubes

125.0 Kg @ 45.77 5,721.25

Priming coat 3.794 Sq.m @ 76.95 291.91

Welding 357.0 cm @ 7.37 2,631.45

8,644.61

Contractor's profit & overhead

@ 20% 1,728.92

10,373.53

For 1 Kg = A / 119

87.17

Total Composite rate

133.00

133

b) Hot finished seamless type tubes

Labour Same as in Item 28.66 above

45.83

46

Materials

For welded type tubes

133.00

Extra charges for seamless type tubes

@ 10% 13.30

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
	Total Composite rate			146.30	146
	Item No. 28-67				
	Add extra for respective payable item above ground floor				
	a) For first floor				0
	b) For every additional floor above first floor				0
	Item No. 28-68				
	Provide and fix balli fencing posts embedded in concrete and coaltaring embedded portion but excluding the cost of excavation and concrete.				
R.M.	a) 4" (100 mm) dia.				
	Considering 180 R.ft fencing.				
	10' high ballies @ 10 ft.c/c = 18 x 10	180.00	R.ft.		
	Coaltaring on 2'	37.71	Sq.ft.	= 3.51	Sq.m.
	1. Labour				
	Carpenter	3.00	Hrs	@ 125.00	375.00
	Helper	6.00	Hrs	@ 75.00	450.00
					<u>825.00</u>
	Contractor's profit & overhead			20%	165.00
	Total Labour rate				<u>18.05</u>
					18
	2. Material				
	Balli 4" dia.	180.00	R.ft.	@ 15.00	2,700.00
	Nail of all sizes	1.00	Kg.	@ 90.00	90.00
	Coaltaring 2 coats Same as in item 17-2	0.00	Sq.m.	@ 272.59	-
					<u>2,790.00</u>
	Contractor's profit & overhead			20%	558.00
	Total Composite rate				<u>79.07</u>
					79
R.M.	b) 3" (75 mm) dia.				
	1. Labour				
	Total Labour rate Same as in item 28-68a				15.83
					16
	2. Material				
	Balli 3" dia.	180.00	R.ft.	@ 10.00	1,800.00
	Nail of all sizes	1.00	Kg.	@ 90.00	90.00
	Coaltaring 2 coats Same as in item 17-2	0.00	Sq.m.	@ 272.59	-
					<u>1,890.00</u>
	Contractor's profit & overhead			20%	378.00
	Total Composite rate				<u>57.17</u>
					57
	Item No. 28-69				
Kg.	Providing and fixing brass grill railing of approved pattern and design including fixing with brass screws and polishing.				
	Detail of cost for 50 kg.				
	1. Labour				
	Black smith	12.50	Hrs	@ 112.00	1,400.00
	Mason	2.00	Hrs	@ 125.00	250.00
	Helper	5.00	Hrs	@ 75.00	375.00
					<u>2,025.00</u>
	Contractor's profit & overhead			20%	405.00
	Total Labour rate				<u>48.60</u>
					49
	2. Material				
	Brass railing	50.40	Kg.	@ 300.00	15,120.00
				5%	756.00
					<u>15,876.00</u>
	Contractor's profit & overhead			20%	3,024.00
	Total Composite rate				<u>426.60</u>
					427
	Item No. 28-70				

Unit	Description	Component Cost		Unit Rate		
		(Rs)	(Rs)	(Rs)	(Rs)	
Providing and fixing aluminium angle in corners with rawl plugs and aluminium screws.						
R.M. a)	1" x 1" x 1/8" size					
	Considering 12 R.ft aluminium angle iron					
	Al. angle corner 12' x 1/6 x 1.42 lbs/Sq.ft.	2.84	Lbs			
	Wastage 5%	0.14	Lbs			
		2.98	Lbs	=	1.35 Kg.	
	1. Labour					
	Mason	0.55	Hrs	@	125.00 68.75	
	Helper	1.00	Hrs	@	75.00 75.00	
					<u>143.75</u>	
	Contractor's profit & overhead			20%	28.75	
	Total Labour rate				<u>47.16</u>	
					47	
	2. Material					
	Aluminium angle/flat	1.00	Kg.	@	200.00 200.00	
	Other materials					
	Aluminium screw 1	24.00	No.	@	45.00 1,080.00	
	Rawal plug 1" long	24.00	No.	@	4.31 103.44	
	Sundries			5%	10.00	
					<u>1,193.44</u>	
					1,393.44	
	Contractor's profit & overhead			20%	278.69	
	Total Composite rate				<u>504.35</u>	
					504	
R.M. b)	1.5" x 1.5" x 1/8" size					
	Considering 12 R.ft aluminium angle iron					
	Al. angle corner 12' x 1/4 x 1.42 lbs/Sq.ft.	4.26	Lbs			
	Wastage 5%	0.21	Lbs			
		4.47	Lbs	=	2.03 Kg.	
	1. Labour					
	Total Labour rate	Same as in item 31-40(a)			99.02	
					99	
	2. Material					
	Aluminium angle/flat	1.98	Kg.	@	200.00 396.00	
	Other materials	Same as in item 31-40(a)			<u>1,193.44</u>	
					1,589.44	
	Contractor's profit & overhead			20%	317.89	
	Total Composite rate				<u>620.51</u>	
					621	
Item No. 28-71						
Providing and fixing aluminium strip with aluminium						
R.M. a)	1" x 1/8" size strip					
	Considering 12 R.ft strip					
	Al. flat 12' x 1/12 x 1.42 lbs/Sq.ft.	1.42	Lbs			
	Wastage 5%	0.07	Lbs			
		1.49	Lbs	=	0.68 Kg.	
	1. Labour					
	Total Labour rate	Same as in item 31-40(a)			23.58	
					24	
	2. Material					
	Aluminium angle/flat	1.20	Kg.	@	200.00 240.00	
	Other materials	Same as in item 31-40(a)			<u>1,193.44</u>	
					1,433.44	
	Contractor's profit & overhead			20%	286.69	
	Total Composite rate				<u>493.89</u>	
					494	
R.M. b)	1.5" x 1/8" size strip					
	Considering 12 R.ft strip					
	Al. flat 12' x 3/24 x 1.42 lbs/Sq.ft.	2.13	Lbs			
	Wastage 5%	0.11	Lbs			
		2.24	Lbs	=	1.01 Kg.	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
1. Labour			
Total Labour rate	Same as in item 31-40(a)	27.74	28
2. Material			
Aluminium angle/flat	0.60 Kg. @ 200.00	120.00	
Other materials	Same as in item 31-40(a)	1,193.44	
		1,313.44	
Contractor's profit & overhead	20%	262.69	
Total Composite rate		458.67	459

Item No. 28-72**R.M. a) Providing and fixing 6" (150 mm) dia wind catcher of G.I. sheet 22 gauge (1.22 mm) of approved shape and design including the cost of wire gauze covering and bottom ring.**

Detail of cost for 4 Nos.- 16 R.ft.

Considering a wind catcher 4 ft. long of 6" dia on one end and 12" dia on the other end

Flat iron:

Topping	22/7 x 1.0	3.14	Sq.ft.		
Bottom ring	22/7 x 0.5	1.57	Sq.ft.		
Clamps	4 x 1	4.00	Sq.ft.		
		8.71	Sq.ft.		
Wastage 5% =		0.44	Sq.ft.		
		9.15	Sq.ft.		
Weight of flat iron	4 x 9.15 x 0.85 lbs./Rft	31.11	Lbs.	=	14.11 Kgs.
G.I.sheet	0.5(22/7x1+22/7x 0.5)x 4	9.43	Sq.ft.		
Wastage 5%		0.47	Sq.ft.		
		9.90	Sq.ft.		
Weight of 4 Nos.	4 x 9.9 x 1.14 lbs./Rft	45.14	Lbs.	=	20.48 Kgs.
Wire gauze	22/7x 0.5x 0.5x 4 Nos.	3.14	Sq.ft.		

1. Labour

Black smith	5.00	Hrs	@	112.00	560.00
Helper	7.00	Hrs	@	75.00	525.00
Mason	1.00	Hrs	@	125.00	125.00
Labourer	1.00	Hrs	@	87.50	87.50
					1,297.50

Contractor's profit & overhead

	20%				259.50
Total Labour rate					319.28

319

2. Material

Flat iron	13.90	Kg.	@	80.00	1,112.00
G.I. sheet plain	20.48	Kg.	@	130.00	2,662.03
Wire gauze	3.14	Sq.ft.	@	38.00	119.43
Welding charges				20%	778.69
					4,672.16

Contractor's profit & overhead

	20%				934.43
Total Composite rate					1,468.98

1,469

R.M. b) Extra for every additional 25mm (1") dia over item No. 28-72(a).

Detail of cost for 4 Nos.

Considering a wind catcher 4 ft. long of 7" dia on one end & 14" dia on the other

Material

Flat iron 1" x 1/4"					
Topping	22/7 x 14/12	3.67	Sq.ft.		
Bottom ring	22/7 x 7/12	1.83	Sq.ft.		
Clamps	6 x 1	6.00	Sq.ft.		
		11.50	Sq.ft.		
Wastage 5% =		0.58	Sq.ft.		
		12.08	Sq.ft.		
Weight of flat iron	4 x 12.08 x 0.85 lbs./Rft	41.07	Lbs.	=	18.63 Kgs.
G.I.sheet	0.5(22/7x7/12+22/7x14/12)x	11.00	Sq.ft.		
Wastage 5%		0.55	Sq.ft.		
		11.55	Sq.ft.		
Weight of 4 Nos.	4 x 11.55 x 1.14 lbs./Rft	52.67	Lbs.	=	23.89 Kgs.
Wire gauze	22/7x 7/12x 7/12x 4 Nos.	4.28	Sq.ft.		

1. Labour

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	As in item 28-72(a)		1,297.50	
	10% extra for		129.75	
			1,427.25	
	Contractor's profit & overhead	20%	285.45	
			351.21	
	Labour rate item 28-72(a)		319.30	
	Total Labour rate		31.91	32
	2. Material			
	Flat iron	18.63	Kg. @ 80.00	1,490.40
	G.I. sheet plain	23.89	Kg. @ 130.00	3,105.70
	Wire gauze	4.28	Sq.ft. @ 38.00	162.56
	Welding charges		20%	951.73
				5,710.39
	Contractor's profit & overhead	20%	1,142.08	
	Total		1,756.39	
	Less Composite rate 28-72(a)		1,469.00	
	Total Composite rate		287.39	287

Item No. 28-73
Providing and fixing 6" (150 mm) dia. C.I. pipe wind catcher of approved shape and design including the cost of wire gauze covering and bottom ring.

Detail of cost for 50 Kgs.

Material							
	C.I. Pipe 6" dia. at bottom and 12" dia. at top.		=	50.00	Kgs.		
	Flat iron						
	Bottom ring	22/7 x 0.5	1.57	Sq.ft.			
	Wastage 5%		0.08	Sq.ft.			
			1.65	Sq.ft.			
	Weight of flat iron	1.65 x 0.85 lbs./Rft	1.40	Lbs.	= 0.64	Kgs.	
	Wire gauze	22/7x 0.5x 0.5	0.79	Sq.ft.			
1. Labour							
	Mason		1.20	Hrs	@ 125.00	150.00	
	Labourer		1.00	Hrs	@ 87.50	87.50	
						237.50	
	Contractor's profit & overhead		20%			47.50	
	Total Labour rate					5.70	6
2. Material							
	C.I. specials		30.00	Kg.	@ 93.75	2,812.50	
	Flat iron		0.50	Kg.	@ 80.00	40.00	
	Wire gauze		0.79	Sq.ft.	@ 38.00	30.02	
	Mortar				2%	57.65	
						2,940.17	
	Contractor's profit & overhead		20%			588.03	
	Total Composite rate					76.26	76

Item No. 28-74
Providing and fixing aluminium sheet of 22 gauge (1.15 mm) thick on wooden surface with sunken aluminium screws of required size.

Detail of cost for 100 Sq.ft.

Material							
	Aluminium sheet 22 gauge		100.00	Sq.ft.			
	Wastage 5%		5.00	Sq.ft.			
			105.00	Sq.ft.			
	Weight	105 x 0.353 lbs/sq.ft.	37.07	Lbs.	= 16.81	Kgs.	
1. Labour							
	Carpenter		2.00	Hrs	@ 125.00	250.00	
	Labourer		2.00	Hrs	@ 87.50	175.00	
						425.00	
	Contractor's profit & overhead		20%			85.00	
	Total Labour rate					54.88	55
2. Material							
	Aluminium sheet		112.00	Kg.	@ 255.00	28,560.00	

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
	Aluminium sunken screws	3%	856.80	
	Total		29,416.80	
	Contractor's profit & overhead	20%	5,883.36	
	Total Composite rate		3,853.17	3,853
Sq.m.	Item No. 28-75			
	Providing and fixing G.I. sheet of 22 gauge (1.15 mm) thick on wooden surface with sunken G.I. screws of required size.			
	Detail of cost for 100 Sq.ft.			
	G.I. sheet 22 gauge	100.00	Sq.ft.	
	Wastage 5%	5.00	Sq.ft.	
		105.00	Sq.ft.	
	Weight	105 x 1.14 lbs/sq.ft.	119.70	Lbs. = 54.30
	1. Labour			Kgs.
	Total Labour rate	Same as in item 31-47		54.90
				55
	2. Material			
	G.I. sheet plain	54.30	Kg. @	130.00
	G.I. sunken screws			3%
	Total			7,058.42
				211.75
	Total			7,270.18
	Contractor's profit & overhead		20%	1,454.04
	Total Composite rate			993.63
				994
	Item No. 28-76			
	Providing and installing M.S. spiral stair case with central post, railing and braces at required interval including two coats of paint but excluding the cost of cement concrete work in base.			
Each a)	5 ft. (1.5 m) dia.			
	1. Labour			
	Black smith	1.00	Hrs @	112.00
	Labourer	1.40	Hrs @	87.50
				112.00
				122.50
				234.50
	Contractor's profit & overhead		20%	46.90
	Total Labour rate			281.40
				281
	2. Material			
	M.S. sheet	10.00	Kg. @	75.00
	Welding etc.			15%
	Painting etc.			5%
	Total			750.00
				112.50
				37.50
	Total			900.00
	Contractor's profit & overhead		20%	180.00
	Total Composite rate			1,361.40
				1,361
Each b)	6 ft. (1.8 m) dia.			
	1. Labour			
	Total Labour rate	Same as in item 28-76(a)		281.40
				281
	2. Material			
	M.S. sheet	10.00	Kg. @	75.00
	Welding etc.			15%
	Painting etc.			5%
	Total			750.00
				112.50
				37.50
	Total			900.00
	Contractor's profit & overhead		20%	180.00
	Total Composite rate			1,361.40
				170
R.M.	Item No. 28-77			
	Providing and laying aluminium strips of any section in floor of any description.			
	Considering a length of 100 R.ft			
	Al. strip 1.5" x 1/8"	100 x 3/24	12.50	Sq.ft
	Weight	12.5 x 1.418 lbs/sq.ft	17.73	Lbs = 8.04
	1. Labour			Kg.
	Mason	4.00	Hrs @	125.00
				500.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Labourer	4.00 Hrs @ 87.50		350.00	
			850.00	
Contractor's profit & overhead		20%	170.00	
Total Labour rate			33.47	33
2. Material				
Aluminium strip	18.50 Kg. @ 255.00		4,717.50	
Contractor's profit & overhead		20%	943.50	
Total Composite rate			219.20	219
R.M.	Item No. 28-78-1			
	Providing and fixing aluminium ribbed nosing to treads of required section with aluminium lugs fixed with aluminium screws and rawl plugs.			
	Detail of cost for 100 R.ft.			
	Considering 25 No. 4 ft. long aluminium nosing on step 2" wide and 1/8" Material			
Aluminium patti 1/8"x 25x4x2/12x1.418 lb/sq.ft	23.63 Lbs. = 10.72		Kg.	
1. Labour				
Total Labour rate	Same as in item 31-58(a)		125.80	126
2. Material				
Aluminium sheet	112.00 Kg. @ 255.00		28,560.00	
Aluminium screw 1	100.00 No. @ 45.00		4,500.00	
Rawal plug 2.5" long	100.00 No. @ 6.62		662.00	
			33,722.00	
Contractor's profit & overhead		20%	5,712.00	
Total Composite rate			1,419.63	1,420
R.M.	Item No. 28-79-1			
	Providing and fixing flat iron ribbed nosing to treads of required sections with iron lugs fixed with screws and rawl plugs.			
	Detail of cost for 100 R.ft.			
	Considering 25 No. 4 ft. long iron nosing on step 2" wide and 1/4" thick.			
Material				
Iron nosing 1/4"x 2" 25x4x2/12x3.94 lb/sq.ft	65.67 Lbs. = 29.79		Kg.	
1. Labour				
Total Labour rate	Same as in item 31-58(a)		125.80	126
2. Material				
Iron work	0.20 Kg. @ 80.00		16.00	
Iron screw 1.5"	100.00 No. @ 10.00		1,000.00	
Rawal plug 2.5" long	100.00 No. @ 6.62		662.00	
			1,678.00	
Contractor's profit & overhead		20%	3.20	
Total Composite rate			180.96	181
R.M.	Item No. 28-80-1			
	Providing and fixing brass ribbed nosing to treads of approved sections with iron lugs fixed with brass screws and rawl plugs.			
	Detail of cost for 100 R.ft.			
	Considering 25 No. 4 ft. long brass nosing on step 2" wide and 1/4" thick.			
Material				
Brass nosing 1/8"x 2" 25x4x2/12x5.75 lb/sq.ft	95.83 Lbs. = 43.47		Kg.	
1. Labour				
Total Labour rate	Same as in item 31-58(a)		125.80	126
2. Material				
Brass work	87.50 Kg. @ 150.00		13,125.00	
Brass screw 1.5" size	100.00 No. @ 9.60		960.00	
Rawal plug 2.5" long	100.00 No. @ 6.62		662.00	
			14,747.00	
Contractor's profit & overhead		20%	2,625.00	
Total Composite rate			695.78	696

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
Sq.m.	Item No. 28-81-1 Fixing enamelled iron gauzes flush with masonry including cost of hooks. Detail of cost for 100			
	1. Labour			
	Mason	6.00	Hrs @ 125.00	750.00
	Labourer	6.00	Hrs @ 87.50	525.00
				<u>1,275.00</u>
	Contractor's profit & overhead		20%	255.00
	Total Labour rate			<u>164.63</u>
				165
	2. Material			
	Wire gauze	100.00	Sq.ft. @ 38.00	3,800.00
	Contractor's profit & overhead		20%	760.00
	Total Composite rate			<u>490.66</u>
				491
R.M.	Item No. 28- 82-1 Providing and fixing 2'-9" high Stair hand railing comprising of 2½" dia 16 gauge S.S pipe hand rail fixed with 2½" dia pipe blusters at specified distance fixed at top of steps with expansion bolts, 2 Nos. of 16 gauge 1" dia S.S pipes horizontally fixed with blusters, Complete in all respects.			
	Detail of cost for 10 R.ft			
	1. Labour			
	Black smith	12.00	Hrs @ 112.00	1,344.00
	Mason	12.00	Hrs @ 125.00	1,500.00
	Driller	12.00	Hrs @ 87.50	1,050.00
	Hammer man	8.00	Hrs @ 87.50	700.00
				<u>4,594.00</u>
	Contractor's profit & overhead		20%	918.80
	Total Labour rate			<u>180.82</u>
				181
	2. Materials			
	2'-9" high Stair railing comprising of 2½" dia 16 gauge S.S pipe hand	10.00	R.ft @ 1500.00	15,000.00 A
	3. Plant & Equipment			
	Drill machine	8.00	Hrs @ 60.00	480.00
	Sundries		5%	774.00
				<u>1,254.00</u>
	Total 2 + 3			16,254.00
	Contractor's profit & overhead		20%	3,250.80
	Total Composite rate			<u>6,580.34</u>
				6,580
Sq.m. a)	Item No. 28-83 Providing and fixing Fibre Glass Window Shades 3 ft wide using 1.5 mm Fibre Glass with 1"x1" 16 guage sq. as approved by Engineer incharge including iron lugs, cutting holes and making good the damages to walls. Considering a 8 Ft 9 x 3.0 sft 22.50 Sq.ft.			
	Windoe			
	1. Labour			
	Steel fitter	1.50	Hrs @ 87.50	131.25
	Steel mistri	1.00	Hrs @ 87.50	87.50
	Labourer	4.00	Hrs @ 87.50	350.00
				<u>568.75</u>
	Contractor's profit & overhead		20%	113.75
	Total Labour rate			<u>271.99</u>
				272
	2. Materials			
	1"x1" 16 guage MS Pipe	39.00	Rft @ 30.00	1,170.00 A
	fibre Glass sheet 1.5 mm	27.00	Sq.ft. @ 150.00	4,050.00

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)

Clamp screw	15.00	No.	@	8.40	126.00	
Contractor's profit & overhead				20%	1,069.20	
Total Composite rate					2,556.58	2,557

Sq.m. b) Providing and fixing Fibre Glass Window Shades 3 ft wide using 2.0 mm Decorative Fibre Glass with 1"x1" 16 guage sq. as approved by Engineer incharge including iron lugs, cutting holes and making good the damages to walls.

Considering a 8 Ft	9 x 3.0 sft	22.50	Sq.ft.				
Windoe							
1. Labour							
Steel fitter		1.50	Hrs	@	87.50	131.25	
Steel mistri		1.00	Hrs	@	87.50	87.50	
Labourer		4.00	Hrs	@	87.50	350.00	
						568.75	
Contractor's profit & overhead				20%		113.75	
Total Labour rate						271.99	272

2. Materials							
1"x1" 16 guage Pipe		39.00	Rft	@	30.00	1,170.00 A	
fibre Glass sheet (decorative) 2.0 mm		27.00	Sq.ft.	@	175.00	4,725.00	
Iron screw 2.5"		27.00	Sq.ft.	@	10.00	270.00	
Clamp screw		15.00	No.	@	8.40	126.00	
Contractor's profit & overhead				20%		1,024.20	
Total Composite rate						2,915.24	2,915

Sq.m. Item No. 28- 84 Providing and fixing fully double glazed aluminium windows (Deluxe model) of anodized Shampane or approved color of Alcop, Pakistan Cable or any approved section including Aluminium fittings, hungs, cutting holes and making good damages to walls including 5 mm thick tinted tempered glass.

Considering a Window of 6' x 6'	36.00	Sq.ft	=	3.35	Sq.m.		
1. Labour							
Mason		16.00	Hrs	@	125.00	2,000.00	
Labourer		16.00	Hrs	@	87.50	1,400.00	
						3,400.00	
Contractor's profit & overhead				20%		680.00	
Total Labour rate						1,217.91	1,218

2. Materials							
Double Glazed Windows with tinted tempered Glass		3.35	Sq.m	@	12912.00	43,255.20	
Contractor's profit & overhead				20%		8,651.04	
Total Composite rate						16,712.31	16,712

Item No. 28- 85 Providing and fixing GI Razor wire fencing with 4 horizontal wires Spiral Type 12 SWG Sprial Wire and 26 SWG Lipping Blade 3" Pitch with four Horizontal Wire 20 SWG.

Details of cost for 10 Rft.

R.M. a) Single

1. Labour						
Black smith		1.00	Hrs	@	112.00	112.00
Mason		0.50	Hrs	@	125.00	62.50

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
					174.50	
	Contractor's profit & overhead		20%		34.90	
	Total Labour rate				<u>68.70</u>	69
	2. Material					
	G.I Razor Wire	10.00	Rft	@ 400.00	4,000.00	
	Wastage			5%	200.00	
	Total				<u>4,200.00</u>	
	Contractor's profit & overhead		20%		840.00	
	Total Composite rate				<u>572.70</u>	573
R.M.	b) Double					
	1. Labour					
	Black smith	2.00	Hrs	@ 112.00	224.00	
	Mason	1.00	Hrs	@ 125.00	125.00	
	Contractor's profit & overhead		20%		349.00	
	Total Labour rate				<u>137.41</u>	137
	2. Material					
	G.I Razor Wire	20.00	Rft	@ 400.00	8,000.00	
	Wastage			5%	400.00	
	Total				<u>8,400.00</u>	
	Contractor's profit & overhead		20%		1,680.00	
	Total Composite rate				<u>1,145.41</u>	1,145
	Item No. 28-86-1					
Kg	Street Electric Pole with/ without Base Dia, Top Dia, Thickness etc. as per given drawing or as directed by Engineer-in-Charge, Galvanized excluding Civil Works					
	Analysis for 3' dia GI pipe with thickness 3 mm					
	1. Labour					
	Mason	3.00	Hrs	@ 125.00	375.00	
	Labourer	8.00	Hrs	@ 87.50	700.00	
	Contractor's profit & overhead		20%		1,075.00	
	Total Labour rate				<u>215.00</u>	
	2. Material					
	Street Electric Pole	40.00	Kg	@ 130.00	5,200.00	
	Wastage			5%	260.00	
	Total				<u>5,460.00</u>	
	Total Composite rate				<u>32.25</u>	32

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Contractor's profit & overhead	20%	1,092.00	
Total Composite rate		<u>196.05</u>	196

Item No. 28-87-1

Sq.m Aluminium Louvers 50 mm in Depth and 1.3 mm thick, Supported by 2mm Thick 75 mm x 70 mm Square Aluminium Frame, Complete in all respect.

1. Labour					
Black smith	5.00	Hrs	@	112.00	560.00
Mason	4.00	Hrs	@	125.00	500.00
Labourer	16.00	Hrs	@	87.50	1,400.00
					<u>2,460.00</u>
Contractor's profit & overhead		20%		492.00	
Total Labour rate				<u>968.55</u>	969

2. Material					
Aluminium Louvers	1.00	Sq.m	@	5000.00	5,000.00
50 mm in Depth and					
1.3 mm thick					
Wastage				5%	250.00
Total					<u>5,250.00</u>
Contractor's profit & overhead		20%		1,050.00	
Total Composite rate				<u>7,268.55</u>	7,269

Item No. 28-88-1

Sq.m. Providing and fixing 12 mm tempered Glass Door and partition wall supported by Stainless Steel brackets and Door supported by Floor mounted Hinges Dorma or equivalent . Aluminium Bottom and Top rail along including door Handles cutting holes cost of fabrication and making good the damages to walls.

Considering a door and partition 10 ft x 10 ft	100.00	Sq.ft.			
1. Labour					
Mason	2.00	Hrs	@	125.00	250.00
Glazier	24.00	Hrs	@	125.00	3,000.00
Black smith	6.00	Hrs	@	112.00	672.00
Welder	8.00	Hrs	@	125.00	1,000.00
Labourer	6.40	Hrs	@	87.50	560.00
					<u>5,482.00</u>
Contractor's profit & overhead		20%		1,096.40	
Total Labour rate				<u>707.84</u>	708

2. Material					
Dorma Set of Floor Hinges	1.00	Set	@	9500.00	9,500.00
Grease Trap	6.00	Nos.	@	450.00	2,700.00
Tempered Glass 12 mm	9.29	Sq.m	@	3443.20	32,000.00
SS Handle 18 "	1.00	Set	@	2500.00	2,500.00
3" wide Aluminium	3.05	RM	@	750.00	2,286.59
Bottom Rail					
Total					<u>5,270.96</u>
Contractor's profit & overhead		20%		1,054.19	

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Total Composite rate	7,032.98	7,033
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Item No. 28-89-1

Providing and Fixing including Galvanising & Manufacturing Guard Rail including 3 mm Steel Beam, Post, Reflector, Bolts and Nuts erecting in position excluding Civil Works

Details for 10 M

1. Labour

Black smith	8.00	Hrs	@	112.00	896.00	
Welder	8.00	Hrs	@	125.00	1,000.00	
Labourer	16.00	Hrs	@	87.50	1,400.00	
					<u>3,296.00</u>	
Contractor's profit & overhead				20%	659.20	
Total Labour rate					<u>395.52</u>	396

2. Material

Steel-Mild	280.00	Kg.	@	82.00	22,960.00	
Reflectors for Guard Rail	6.00	Nos.	@	150.00	900.00	
Bolts & Nuts	70.00	No.	@	12.00	840.00	
					<u>23,860.00</u>	
Galvanising				10%	2,386.00	
Total					26,246.00	
Contractor's profit & overhead				20%	5,249.20	
Total Composite rate					<u>3,545.04</u>	3,545

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 29-1-1					
Sq.m.	Rough dressing of the area for lawn including picking stones, pebbles, stubble, grass roots and other injurious matters and breaking of clods including disposal of rubbish within 300 ft (90m or 3 chains).				
	Details of cost for 10 sq.m.				
	1. Labour				
	Labourer	2.00	Hrs @ 87.50		175.00
	Contractor's profit & overhead		20%		35.00
	Total Labour rate				21.00
					21.00
Item No. 29-2-1					
Cu.m.	Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.				
	Cowdung	1.00	Cu.m. @ 106.00		106.00
	Contractor's profit & overhead		20%		21.20
	Total Composite rate				127.20
					127.20
Item No. 29-3-1					
Cu.m.	Spreading cowdung manure and mixing the same upto a depth of 4" (100mm) in the prepared bed including breaking clods, dressing for grassing including disposal of rubbish upto 300 ft (90 m or 3chains).				
	1. Labour				
	Labourer	1.50	Hrs @ 87.50		131.25
	Contractor's profit & overhead		20%		26.25
	Total Labour rate				157.50
					157.50
Item No. 29-4-1					
Cu.m.	Supplying and stacking well decayed sewage manure from approved source including all leads and lifts.				
	Manure	1.00	Cu.m. @ 300.00		300.00
	Contractor's profit & overhead		20%		60.00
	Total Composite rate				360.00
					360.00
Item No. 29-5-1					
Cu.m.	Spreading sewage manure in uniform thickness in the prepared bed including mixing with original soil upto and depth including breaking clods and dressing for grassing including disposal of rubbish upto 300ft. (90m. or 3 chain)				
	1. Labour				
	Labourer	1.25	Hrs @ 87.50		109.38
	Contractor's profit & overhead		20%		21.88
	Total Labour rate				131.25
					131.25
Item No. 29-6-1					
Cu.m.	Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots including all leads and lifts.				
	Sweet earth	1.00	Cu.m. @ 1412.40		1,412.40
	Contractor's profit & overhead		20%		282.48
	Total Composite rate				1,694.88
					1694.90
Item No. 29-7-1					
Cu.m.	Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing for grassing including disposal of rubbish within 300 ft. (90m or 3 chains).				
	1. Labour				
	Labourer	1.25	Hrs @ 87.50		109.38
	Contractor's profit & overhead		20%		21.88

Unit	Description	Component Cost		Unit	Rate
		(Rs)		(Rs)	
	Total Labour rate			131.25	131.25
	Item No. 29-8-1				
Cu.m.	Supplying and stacking approved quality sand free from salts, pebbles, grass roots including all leads and lifts.				
	Sand local	1.00	Cu.m. @	882.75	882.75
	Contractor's profit & overhead			20%	176.55
	Total Composite rate				1,059.30
	Item No. 29-9-1				
Cu.m.	Spreading approved quality sand uniform thickness and mixing the sand, breaking clods, and dressing for grassing including disposal of rubbish within 300 ft (90m. or 3 chains).				
	1. Labour				
	Labourer	3.00	Hrs @	87.50	262.50
	Contractor's profit & overhead			20%	52.50
	Total Labour rate				315.00
	Item No. 29-10-1				
Sq.m.	Dressing upto depth of 4" (100 mm) and preparing the bed for final finishing including sprinkling water, raking and rubbing.				
	1. Labour				
	Labourer	0.75	Hrs @	87.50	65.63
	Contractor's profit & overhead			20%	13.13
	Total Labour rate				78.75
	Item No. 29-11				
Sq.m.	a) Supplying and fixing of approved quality live local grass in shape of grass mats				
	Grass	1.00	Sq.m. @	269.00	269.00
	Contractor's profit & overhead			20%	53.80
	Total Composite rate				322.80
Sq.m.	b) Supplying and fixing of approved quality live Korean grass in shape of grass mats				
	Korean Fence	1.00	Sq.m. @	301.28	301.28
	Contractor's profit & overhead			20%	60.26
	Total Composite rate				361.54
	Item No. 29-12				
Sq.m.	a) Providing and fixing of Grassing by dibbing live Dhakka grass roots 3" (75 mm) apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing (2kg for 1Sq. Ft. area).				
	1. Labour				
	For dressing:	0.75	Hrs @	35.00	26.25
	Labourer	1.00	Hrs @	87.50	87.50
	For watering & weeding:	0.25	Hrs @	35.00	8.75
					122.50
	Contractor's profit & overhead			20%	24.50
	Total Labour rate				147.00
	2. Material Dhakka Grass	0.01	Sq. M @	269.00	2.69
	Contractor's profit & overhead			20%	0.54
					62.03
Sq.m.	b) Providing and fixing of Grassing by dibbing live Korean grass roots 3" (75 mm) apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing (2kg for 1Sq. Ft. area).				
	1. Labour				
	For dressing:	0.75	Hrs @	35.00	26.25
	Labourer	1.00	Hrs @	87.50	87.50
	For watering & weeding:	0.25	Hrs @	35.00	8.75

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

				122.50	
	Contractor's profit & overhead	20%		24.50	
	Total Labour rate			147.00	58.80
	2. Material Korean Grass	0.01	Sq. M @	301.28	3.01
	Contractor's profit & overhead	20%		0.60	62.42

Item No. 29-13**Cu.m. Supplying stone boulders of approved size and shape including all leads and lifts.****a) Stone boulder 9" (230 mm) size**

	Total Composite rate (Same as in item 21-12)			208.40	208.40
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b) Stone boulder 6" (150 mm) size

	Total Composite rate			201.90	201.90
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c) Stone boulder 3" to 4" (75mm to 100mm) size

	Total Composite rate			195.40	195.40
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Item No. 29-14**Each Providing and fixing perforated standard bitumen drums for tree guards of approved design including painting in black and white.**

	Drum, empty	1.00	No. @	600.00	600.00
	Holes (punching)	7.00	No. @	10.00	70.00
	Painting			25%	150.00
					820.00
	Contractor's profit & overhead	20%			164.00
	Total Composite rate				984.00

Item No. 29-15-1**Each Providing and fixing 2" (50 mm) thick R.C.C. tree guards 48" x 30" x 30" (1.2 m x 0.75 m x 0.75 m) clear as per approved design and drawings including the cost of reinforcement and 3 coats of white washing**

	R.C.C. tree guard				
	Surface area of one panel of tree guard				
	4 x 2.5	10.00	Sq.ft.		
	Net area 75%	7.50	Sq.ft.		
	Add for leg 0.5 Sq.ft.	0.50	Sq.ft.		
	Total	8.00	Sq.ft. =	0.74	Sq.m.
	M.S. bars at 3 lbs for Cu.ft. =				
	4 x 10.5 x 2/12 x 3/2.2	9.55	Kg.		
	White washing 3 coats outside = 4 x 10	40.00	Sq.ft. =	3.72	Sq.m.
	1. Labour				
	Mason	2.00	Hrs @	125.00	250.00
	Labourer	4.00	Hrs @	87.50	350.00
					600.00
	Contractor's profit & overhead	20%			120.00
	Total Labour rate				1,070.00
	2. Material				
	R.C.C. tree guard (Same as in item 5-24(a))	0.74	Sq.m. @	1100.00	814.00
	Mild steel bars(G-40)	9.55	Kg. @	88.00	840.40
	White washing	3.72	Sq.m. @	10.00	9.55
	Carriage etc.			25%	415.99
					2,079.94
	Contractor's profit & overhead	20%			415.99
	Total Composite rate				3,565.93

Item No. 29-16-1

Unit	Description	Component Cost	Unit	Rate
		(Rs)		(Rs)

Each Providing and fixing 1:3:6 cement concrete solid block masonry 6" (150mm) thick honey combed, in tree guards average 5 ft (1.5 m) dia & 5 ft (1.5 m) high including foundation set in 1:6 cement sand mortar including curing and 3 coats of white washing (outside) as per approved design and drawings.

Diameter = 1.5 m
Height = 1.5 m
Thickness = 150 mm

Contents: 22/7x1.5x1.5x150/1000 1.06 Cu.m.
Less for hollowness = 33% 0.35 Cu.m.
0.71 Cu.m.

1. Labour

Labourer	For fitting & white washing	5.00	Hrs @	87.50	437.50	
Contractor's profit & overhead					20%	87.50
Total Labour rate					525.00	525.00

2. Material

6" block masonry	Same as in item 9-2(b)4	0.71	Cu.m. @	2304.15	1,637.51	
Contractor's profit & overhead					20%	327.50
Total Composite rate					2,490.01	2490.00

Item No. 29-17-1

Each Providing and fixing first class burnt brick 4.5" (114 mm) thick masonry honey combed in tree guards average 5 ft (1.5 m) dia and 5 ft (1.5m) high including foundation set in 1:6 cement mortar including curing and 3 coats of white washing (outside) as per approved design and drawings.

Diameter = 1.5 m
Height = 1.5 m
Thickness = 115 mm

Contents: 22/7x1.5x1.5x115/1000 0.81 Cu.m.
Less for hollowness = 33% 0.27 Cu.m.
0.54 Cu.m.

1. Labour

Labourer	For fitting & white washing	4.00	Hrs @	87.50	350.00	
Contractor's profit & overhead					20%	70.00
Total Labour rate					420.00	420.00

2. Material

4.5" brick masonry	Same as in item 11-19(a)5	0.54	Cu.m. @	4732.18	2,555.38	
Contractor's profit & overhead					20%	511.08
Total Composite rate					3,486.45	3486.45

Item No. 29-18-1

Each Supplying and fixing 48" x 30" x 30" (1.2m x 0.75m x 0.75m clear size frame in approved design and drawings of angle iron 18" x 18" x 1/4" (38mm x 38mm x 6mm) including painting and barbed wire in tree guards of required shape.

Angle iron 1.6"x1.6"x1/4" frame, one at each edge and one in the middle = 3 x 4 x 2.5

	30.00	R.ft.
Vertical post	16.00	R.ft.
	46.00	R.ft.
Weight = 46 x 1.23/2.2	25.72	Kg.

Barbed wire 2 ply 12 gauge @ 6" c/c

Vertical	3 x 4 x 4.3	51.60	R.ft.
Horizontal	5 x 4 x 2.5	50.00	R.ft.
Wastage @ 5%		5.08	R.ft.
		106.68	R.ft.

Weight = 106.68 x 112/1410/2.2	3.85	Kg.
Making holes for fixing wire = 15 x 4	60.00	Nos.

1. Labour

For stretching & fixing of wire

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Black smith	2.00	Hrs	@ 112.00	224.00	
	For cutting of angle iron					
	Black smith	1.00	Hrs	@ 112.00	112.00	
	Welder	24.00	Hrs	@ 125.00	3,000.00	
	Holes (making)	60.00	No.	@ 10.00	600.00	
					<u>3,936.00</u>	
	Contractor's profit & overhead			20%	787.20	
	Total Labour rate				<u>4,723.20</u>	472.32
	2. Material					
	Angle iron	25.72	Kg.	@ 74.00	1,903.15	
	Barbed wire (16 Guage)	3.85	Kg	@ 130.00	500.50	
	Painting			5%	120.18	
	Total				<u>2,523.83</u>	
	Contractor's profit & overhead			20%	504.77	
	Total Composite rate				<u>7,751.79</u>	3781.37

Item No. 29-19-1

Each

Providing and fixing 48" x 30" x 30" (1.2m x 0.75m x 0.75m) clear size frame in approved design and drawings of shisham wood 2"x2" (50mm x 50mm) posts and frame with barbed wire in tree guards of required shape.

1. Material

For shisham wood tree guard

Length of strips, same as item 29-18

Quantity of wood = 46 x 1/6 x 1/6

Wastage @10%

46.00	R.ft.
1.28	Cu.ft.
0.13	Cu.ft.
1.41	Cu.ft.

1. Labour

Carpenter

1.00 Hrs @ 125.00 125.00

Labourer

1.00 Hrs @ 87.50 87.50

For stretching & fixing of wire

Black smith

1.00 Hrs @ 112.00 112.00

324.50

Contractor's profit & overhead

20% 64.90

Total Labour rate

389.40**389.40**

2. Material

Wood - Shisham

1.41 Cu.ft. @ 2000.00 2,811.11

Sawing charges

1.41 Cu.ft. @ 87.50 122.99

Barbed wire (16 Guage)

3.85 Kg @ 130.00 500.73

M.S. plate

1.00 Kg @ 85.00 85.00

Nail of all sizes

0.25 Kg. @ 90.00 22.50

Total

3,542.33

Contractor's profit & overhead

20% 708.47

Total Composite rate

4,640.19**4640.20****Item No. 29-20-1**

Kg.

Providing and fixing G.I. barbed wire 2 ply, 14 Guage fencing with two to four points to the posts of any description with hooks and binding wire excluding cost of posts.

1. Labour

Black smith

0.40 Hrs @ 112.00 44.80

Labourer

0.40 Hrs @ 87.50 35.00

Total

79.80

Contractor's profit & overhead

20% 15.96

Total Labour rate

95.76**95.75**

2. Material

Barbed wire (16 Guage)

1.00 Kg @ 130.00 130.00

Contractor's profit & overhead

20% 26.00

Total Composite rate

251.76**251.75**

Unit	Description	Component Cost	Unit	Rate
		(Rs)		(Rs)

Item No. 29-21

Providing, laying, cutting, jointing, testing and disinfecting PVC pipes confirming to BSS-3505/PS-3051 complete in all respects.

R.m a) PVC Pipe, 6 inches Dia, B-Class

1. Labour

Labourer	0.04	Hrs	@	87.50	3.50
Pipe Fitter	0.04	Hrs	@	125.00	5.00

					8.50
Contractor's profit & overhead				20%	1.70

10.20	10.20
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2. Material

PVC Pipe, 6 inches, B-Class	1.00	R.M	@	675.36	675.36
Fittings and Special				15%	101.30

					776.66
Contractor's profit & overhead				20%	155.33

942.20	942.20
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R.m b) PVC Pipe, 5 inches Dia, B-Class

1. Labour

Labourer	0.04	Hrs	@	87.50	3.50
Pipe Fitter	0.04	Hrs	@	125.00	5.00

					8.50
Contractor's profit & overhead				20%	1.70

10.20	10.20
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2. Material

PVC Pipe, 5 inches, B-Class	1.00	R.M	@	482.16	482.16
Fittings and Special				15%	72.32

					554.48
Contractor's profit & overhead				20%	110.90

675.58	675.60
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R.m c) PVC Pipe, 4 inches Dia, B-Class

1. Labour

Labourer	0.04	Hrs	@	87.50	3.50
Pipe Fitter	0.04	Hrs	@	125.00	5.00

					8.50
Contractor's profit & overhead				20%	1.70

10.20	10.20
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2. Material

PVC Pipe, 4 inches, B-Class	1.00	R.M	@	346.92	346.92
Fittings and Special				15%	52.04

					398.96
Contractor's profit & overhead				20%	79.79

488.95	488.95
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R.m d) PVC Pipe, 3 inches Dia, B-Class

1. Labour

Labourer	0.04	Hrs	@	87.50	3.50
Pipe Fitter	0.04	Hrs	@	125.00	5.00

					8.50
Contractor's profit & overhead				20%	1.70

10.20	10.20
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2. Material

PVC Pipe, 3 inches, B-Class	1.00	R.M	@	228.48	228.48
Fittings and Special				15%	34.27

					262.75
Contractor's profit & overhead				20%	52.55

325.50	325.50
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Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
R.m	e) PVC Pipe, 2.5 inches Dia, C-Class				
	1. Labour				
	Labourer	0.04	Hrs @	87.50	3.50
	Pipe Fitter	0.04	Hrs @	125.00	5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
					10.20
	2. Material				
	PVC Pipe, 2.5 inches, C-Class	1.00	R.M @	138.60	138.60
	Fittings and Special		15%		20.79
					159.39
	Contractor's profit & overhead		20%		31.88
					201.47
					201.45
R.m	f) PVC Pipe, 2 inches Dia, C-Class				
	1. Labour				
	Labourer	0.04	Hrs @	87.50	3.50
	Pipe Fitter	0.04	Hrs @	125.00	5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
					10.20
	2. Material				
	PVC Pipe, 2 inches, C-Class	1.00	R.M @	162.96	162.96
	Fittings and Special		15%		24.44
					187.40
	Contractor's profit & overhead		20%		37.48
					235.08
					235.10
R.m	g) PVC Pipe, 1.5 inches Dia, D-Class				
	1. Labour				
	Labourer	0.04	Hrs @	87.50	3.50
	Pipe Fitter	0.04	Hrs @	125.00	5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
					10.20
	2. Material				
	PVC Pipe, 1.5 inches, D-Class	1.00	R.M @	105.00	105.00
	Fittings and Special		15%		15.75
					120.75
	Contractor's profit & overhead		20%		24.15
					155.10
					155.10
R.m	h) PVC Pipe, 1.25 inches Dia, D-Class				
	1. Labour				
	Labourer	0.04	Hrs @	87.50	3.50
	Pipe Fitter	0.04	Hrs @	125.00	5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
					10.20
	2. Material				
	PVC Pipe, 1.25 inches, D-Class	1.00	R.M @	79.80	79.80
	Fittings and Special		15%		11.97
					91.77
	Contractor's profit & overhead		20%		18.35
					120.32
					120.30

Item No. 29-22

Providing, laying, cutting, jointing, testing and disinfecting PVC pipes confirming to ISO-4422 complete in all respects.

R.m	a) PVC Pipe, 25 mm Dia, PN-6				
	1. Labour				
	Labourer	0.04	Hrs @	87.50	3.50

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	2.Material				
	PVC Pipe, 25 mm, PN-6	1.00	R.M @ 39.48		39.48
	Fittings and Special		15%		5.92
					45.40
	Contractor's profit & overhead		20%		9.08
					64.68
R.m	b) PVC Pipe, 32 mm Dia, PN-6				64.70
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	2.Material				
	PVC Pipe, 32 mm, PN-6	1.00	R.M @ 50.40		50.40
	Fittings and Special		15%		7.56
					57.96
	Contractor's profit & overhead		20%		11.59
					79.75
R.m	c) PVC Pipe, 40 mm Dia, PN-6				79.75
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	2.Material				
	PVC Pipe, 40 mm, PN-6	1.00	R.M @ 63.00		63.00
	Fittings and Special		15%		9.45
					72.45
	Contractor's profit & overhead		20%		14.49
					97.14
R.m	d) PVC Pipe, 50 mm Dia, PN-6				97.15
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	2.Material				
	PVC Pipe, 50 mm, PN-6	1.00	R.M @ 78.96		78.96
	Fittings and Special		15%		11.84
					90.80
	Contractor's profit & overhead		20%		18.16
					119.16
R.m	e) PVC Pipe, 63 mm Dia, PN-6				119.15
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	2.Material				
	PVC Pipe, 63 mm, PN-6	1.00	R.M @ 100.80		100.80
	Fittings and Special		15%		15.12

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	115.92		
			<u>23.18</u>		
			149.30		149.30
R.m	f) PVC Pipe, 75 mm Dia, PN-6				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		<u>5.00</u>
					8.50
	Contractor's profit & overhead	20%			<u>1.70</u>
					10.20
					10.20
	2. Material				
	PVC Pipe, 75 mm , PN-6	1.00	R.M @ 139.44		139.44
	Fittings and Special		15%		<u>20.92</u>
					160.36
	Contractor's profit & overhead	20%			<u>32.07</u>
					202.63
					202.65
R.m	g) PVC Pipe, 90 mm Dia, PN-6				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		<u>5.00</u>
					8.50
	Contractor's profit & overhead	20%			<u>1.70</u>
					10.20
					10.20
	2. Material				
	PVC Pipe, 90 mm, PN-6	1.00	R.M @ 181.44		181.44
	Fittings and Special		15%		<u>27.22</u>
					208.66
	Contractor's profit & overhead	20%			<u>41.73</u>
					260.59
					260.60
R.m	h) PVC Pipe, 110 mm Dia, PN-6				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		<u>5.00</u>
					8.50
	Contractor's profit & overhead	20%			<u>1.70</u>
					10.20
					10.20
	2. Material				
	PVC Pipe, 110 mm, PN-6	1.00	R.M @ 275.52		275.52
	Fittings and Special		15%		<u>41.33</u>
					316.85
	Contractor's profit & overhead	20%			<u>63.37</u>
					390.42
					390.40
R.m	i) PVC Pipe, 140 mm Dia, PN-6				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		<u>5.00</u>
					8.50
	Contractor's profit & overhead	20%			<u>1.70</u>
					10.20
					10.20
	2. Material				
	PVC Pipe, 140 mm, PN-6	1.00	R.M @ 425.04		425.04
	Fittings and Special		15%		<u>63.76</u>
					488.80
	Contractor's profit & overhead	20%			<u>97.76</u>
					596.76
					596.75
R.m	j) PVC Pipe, 160 mm Dia, PN-6				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		<u>5.00</u>
					8.50

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	1.70		
			10.20		10.20
	2.Material				
	PVC Pipe, 160 mm, PN-6	1.00	R.M @ 582.12	582.12	
	Fittings and Special		15%	87.32	
				669.44	
	Contractor's profit & overhead	20%	133.89		
			813.53		813.55
Item No. 29-23					
Providing, laying, cutting, jointing, testing and disinfecting PE pipes confirming to ISO-4427 complete in all respects.					
R.m	a) PE Pipe, 110 mm Dia, PN-8				
	1. Labour				
	Labourer	0.08	Hrs @ 87.50	7.00	
	Pipe Fitter	0.08	Hrs @ 125.00	10.00	
				17.00	
	Contractor's profit & overhead	20%	3.40		
			20.40		20.40
	2.Material				
	PE Pipe, 110 mm, PN-8	1.00	R.M @ 397.32	397.32	
	Fittings and Special		15%	59.60	
				456.92	
	Contractor's profit & overhead	20%	91.38		
			568.70		568.70
R.m	b) PE Pipe, 90 mm Dia, PN-8				
	1. Labour				
	Labourer	0.08	Hrs @ 87.50	7.00	
	Pipe Fitter	0.08	Hrs @ 125.00	10.00	
				17.00	
	Contractor's profit & overhead	20%	3.40		
			20.40		20.40
	2.Material				
	PE Pipe, 90 mm, PN-8	1.00	R.M @ 263.76	263.76	
	Fittings and Special		15%	39.56	
				303.32	
	Contractor's profit & overhead	20%	60.66		
			384.39		384.40
R.m	c) PE Pipe, 75 mm Dia, PN-8				
	1. Labour				
	Labourer	0.08	Hrs @ 87.50	7.00	
	Pipe Fitter	0.08	Hrs @ 125.00	10.00	
				17.00	
	Contractor's profit & overhead	20%	3.40		
			20.40		20.40
	2.Material				
	PE Pipe, 75 mm, PN-8	1.00	R.M @ 183.96	183.96	
	Fittings and Special		15%	27.59	
				211.55	
	Contractor's profit & overhead	20%	42.31		
			274.26		274.25
R.m	d) PE Pipe, 63 mm Dia, PN-8				
	1. Labour				
	Labourer	0.08	Hrs @ 87.50	7.00	
	Pipe Fitter	0.08	Hrs @ 125.00	10.00	
				17.00	
	Contractor's profit & overhead	20%	3.40		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
				20.40	20.40
	2.Material				
	PE Pipe, 63 mm, PN-8	1.00	R.M @	129.36	129.36
	Fittings and Special			15%	19.40
					148.76
	Contractor's profit & overhead			20%	29.75
					198.92
					198.90
R.m	e) PE Pipe, 63 mm Dia, PN-8				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead			20%	3.40
					20.40
					20.40
	2.Material				
	PE Pipe, 63 mm, PN-8	1.00	R.M @	129.36	129.36
	Fittings and Special			15%	19.40
					148.76
	Contractor's profit & overhead			20%	29.75
					198.92
					198.90
R.m	f) PE Pipe, 50 mm Dia, PN-8				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead			20%	3.40
					20.40
					20.40
	2.Material				
	PE Pipe, 50 mm, PN-8	1.00	R.M @	81.48	81.48
	Fittings and Special			15%	12.22
					93.70
	Contractor's profit & overhead			20%	18.74
					132.84
					132.85
R.m	g) PE Pipe, 40 mm Dia, PN-8				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead			20%	3.40
					20.40
					20.40
	2.Material				
	PE Pipe, 40 mm, PN-8	1.00	R.M @	54.60	54.60
	Fittings and Special			15%	8.19
					62.79
	Contractor's profit & overhead			20%	12.56
					95.75
					95.75
	Item No. 29-24				
	Providing, laying, cutting, jointing, testing and disinfecting PE pipes conforming to ISO-4427 complete in all respects.				
R.m	a) PE Pipe, 110 mm Dia, PN-10				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead			20%	3.40
					20.40
					20.40
	2.Material				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	PE Pipe, 110 mm, PN-10	1.00	R.M @	488.88	488.88
	Fittings and Special			15%	73.33
					562.21
	Contractor's profit & overhead			20%	112.44
					695.05
					695.05
R.m	b) PE Pipe, 90 mm Dia, PN-10				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead			20%	3.40
					20.40
					20.40
	2. Material				
	PE Pipe, 90 mm, PN-10	1.00	R.M @	327.60	327.60
	Fittings and Special			15%	49.14
					376.74
	Contractor's profit & overhead			20%	429.28
					826.42
					826.40
R.m	c) PE Pipe, 75 mm Dia, PN-10				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead			20%	3.40
					20.40
					20.40
	2. Material				
	PE Pipe, 75 mm, PN-10	1.00	R.M @	222.60	222.60
	Fittings and Special			15%	33.39
					255.99
	Contractor's profit & overhead			20%	51.20
					327.59
					327.60
R.m	d) PE Pipe, 63 mm Dia, PN-10				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead			20%	3.40
					20.40
					20.40
	2. Material				
	PE Pipe, 63 mm, PN-10	1.00	R.M @	161.28	161.28
	Fittings and Special			15%	24.19
					185.47
	Contractor's profit & overhead			20%	37.09
					242.97
					242.95
R.m	e) PE Pipe, 63 mm Dia, PN-10				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead			20%	3.40
					20.40
					20.40
	2. Material				
	PE Pipe, 63 mm, PN-10	1.00	R.M @	161.28	161.28
	Fittings and Special			15%	24.19
					185.47
	Contractor's profit & overhead			20%	37.09
					242.97
					242.95

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
R.m	f) PE Pipe, 50 mm Dia, PN-10				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead		20%		3.40
					20.40
					20.40
	2. Material				
	PE Pipe, 50 mm, PN-10	1.00	R.M @	100.80	100.80
	Fittings and Special		15%		15.12
					115.92
	Contractor's profit & overhead		20%		23.18
					159.50
					159.50
R.m	g) PE Pipe, 40 mm Dia, PN-10				
	1. Labour				
	Labourer	0.08	Hrs @	87.50	7.00
	Pipe Fitter	0.08	Hrs @	125.00	10.00
					17.00
	Contractor's profit & overhead		20%		3.40
					20.40
					20.40
	2. Material				
	PE Pipe, 40 mm, PN-10	1.00	R.M @	64.68	64.68
	Fittings and Special		15%		9.70
					74.38
	Contractor's profit & overhead		20%		14.88
					109.66
					109.65
	Item No. 29-25				
	Providing and fixing at site Sand Media/ Gravel Filter				
	confirming to ISO 9912 Imported or approved equivalent				
	(similar specifications), complete in all respects.				
Nos.	a) Discharge Capacity 10 m3/hr				
	1. Labour				
	Plumber	4.00	Hrs @	125.00	500.00
	Electrician	1.00	Hrs @	87.50	87.50
					587.50
	Contractor's profit & overhead		20%		117.50
	Total Labour rate				705.00
					705.00
	2. Material				
	Sand Media/Gravel Filter, 10m3/hr	1.00	Nos. @	32,962	32,961.60
	Contractor's profit & overhead		20%		6,592.32
	Total Composite rate				40,258.92
					40,259
Nos.	b) Discharge Capacity 20 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @	125.00	250.00
	Electrician	4.00	Hrs @	87.50	350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Sand Media/Gravel Filter, 20m3/hr	1.00	Nos. @	37,671	37,670.64
	Contractor's profit & overhead		20%		7,534.13
	Total Composite rate				45,924.77
					45,925
Nos.	c) Discharge Capacity 25 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @	125.00	250.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Sand Media/Gravel Filter, 25m3/hr	1.00	Nos. @ 46,131		46,131.12
	Contractor's profit & overhead		20%		9,226.22
	Total Composite rate				56,077.34
					56,077
Nos.	d) Discharge Capacity 30 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Sand Media/Gravel Filter, 30m3/hr	1.00	Nos. @ 47,088		47,087.88
	Contractor's profit & overhead		20%		9,417.58
	Total Composite rate				57,225.46
					57,225
Nos.	e) Discharge Capacity 35 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Sand Media/Gravel Filter, 35m3/hr	1.00	Nos. @ 51,797		51,796.92
	Contractor's profit & overhead		20%		10,359.38
	Total Composite rate				62,876.30
					62,876
Nos.	f) Discharge Capacity 40 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Sand Media/Gravel Filter, 40m3/hr	1.00	Nos. @ 55,358		55,357.68
	Contractor's profit & overhead		20%		11,071.54
	Total Composite rate				67,149.22
					67,149
Nos.	g) Discharge Capacity 45 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Sand Media/Gravel Filter, 45m3/hr	1.00	Nos. @ 61,624		61,624.08
	Contractor's profit & overhead		20%		12,324.82
	Total Composite rate				74,668.90
					74,669
Nos.	h) Discharge Capacity 50 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	600.00		
	Total Labour rate		120.00		
			720.00		720.00
	2. Material				
	Sand Media/Gravel Filter, 50m3/hr	1.00 Nos. @	69,219	69,219.36	
	Contractor's profit & overhead	20%	13,843.87		
	Total Composite rate		83,783.23		83,783
Nos.	i) Discharge Capacity 60 m3/hr				
	1. Labour				
	Plumber	2.00 Hrs @	125.00	250.00	
	Electrician	4.00 Hrs @	87.50	350.00	
				600.00	
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Sand Media/Gravel Filter, 60m3/hr	1.00 Nos. @	73,457	73,457.16	
	Contractor's profit & overhead	20%	14,691.43		
	Total Composite rate		88,668.59		88,869
	Item No. 29-26				
	Providing and fixing at site Disc Filter, confirming to ISO 9912 Imported or approved equivalent (similar specifications), complete in all respects.				
Nos.	a) Discharge Capacity 15 m3/hr				
	1. Labour				
	Plumber	2.00 Hrs @	125.00	250.00	
	Electrician	4.00 Hrs @	87.50	350.00	
				600.00	
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Disc Filter, 15m3/hr	1.00 Nos. @	9,417	9,417.24	
	Contractor's profit & overhead	20%	1,883.45		
	Total Composite rate		12,020.69		12,021
Nos.	b) Discharge Capacity 20 m3/hr				
	1. Labour				
	Plumber	2.00 Hrs @	125.00	250.00	
	Electrician	4.00 Hrs @	87.50	350.00	
				600.00	
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Disc Filter, 20m3/hr	1.00 Nos. @	13,109	13,109.04	
	Contractor's profit & overhead	20%	2,621.81		
	Total Composite rate		16,450.85		16,451
Nos.	c) Discharge Capacity 25 m3/hr				
	1. Labour				
	Plumber	2.00 Hrs @	125.00	250.00	
	Electrician	4.00 Hrs @	87.50	350.00	
				600.00	
	Contractor's profit & overhead	20%	120.00		
	Total Labour rate		720.00		720.00
	2. Material				
	Disc Filter, 25m3/hr	1.00 Nos. @	18,452	18,452.28	
	Contractor's profit & overhead	20%	3,690.46		
	Total Composite rate		22,862.74		22,863

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Nos. d)	Discharge Capacity 30 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Disc Filter, 30m3/hr	1.00	Nos. @ 18,835		18,835.32
	Contractor's profit & overhead		20%		3,767.06
	Total Composite rate				<u>23,322.38</u>
					23,322
Nos. e)	Discharge Capacity 35 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Disc Filter, 35m3/hr	1.00	Nos. @ 19,777		19,776.96
	Contractor's profit & overhead		20%		3,955.39
	Total Composite rate				<u>24,452.35</u>
					24,452
Nos. f)	Discharge Capacity 40 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Disc Filter, 40m3/hr	1.00	Nos. @ 22,143		22,143.24
	Contractor's profit & overhead		20%		4,428.65
	Total Composite rate				<u>27,291.89</u>
					27,292
Nos. g)	Discharge Capacity 45 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Disc Filter, 45m3/hr	1.00	Nos. @ 25,898		25,898.04
	Contractor's profit & overhead		20%		5,179.61
	Total Composite rate				<u>31,797.65</u>
					31,798
Nos. h)	Discharge Capacity 50 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Disc Filter, 50m3/hr	1.00	Nos. @ 26,391		26,391.12
	Contractor's profit & overhead		20%		5,278.22
	Total Composite rate				<u>32,389.34</u>
					32,389

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Nos.	i) Discharge Capacity 60 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Disc Filter, 60m3/hr	1.00	Nos. @ 26,756		26,755.68
	Contractor's profit & overhead		20%		5,351.14
	Total Composite rate				32,826.82
					32,827
	Item No. 29-27				
	Providing and fixing at site Screen Filter, conforming to ISO 9912 Imported or approved equivalent (similar specifications), complete in all respects.				
Nos.	a) Discharge Capacity 15 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Screen Filter, 15m3/hr	1.00	Nos. @ 6,592		6,592.32
	Contractor's profit & overhead		20%		1,318.46
	Total Composite rate				8,630.78
					8,631
Nos.	b) Discharge Capacity 20 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Screen Filter, 20m3/hr	1.00	Nos. @ 7,534		7,533.96
	Contractor's profit & overhead		20%		1,506.79
	Total Composite rate				9,760.75
					9,761
Nos.	c) Discharge Capacity 25 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Screen Filter, 25m3/hr	1.00	Nos. @ 7,534		7,533.96
	Contractor's profit & overhead		20%		1,506.79
	Total Composite rate				9,760.75
					9,761
Nos.	d) Discharge Capacity 30 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	Screen Filter, 30m3/hr	1.00	Nos. @ 8,476	8,475.60	
	Contractor's profit & overhead		20%	1,695.12	
	Total Composite rate			10,890.72	10,891
Nos.	e) Discharge Capacity 35 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
	Electrician	4.00	Hrs @ 87.50	350.00	
				600.00	
	Contractor's profit & overhead		20%	120.00	
	Total Labour rate			720.00	720.00
	2. Material				
	Screen Filter, 35m3/hr	1.00	Nos. @ 8,495	8,494.92	
	Contractor's profit & overhead		20%	1,698.98	
	Total Composite rate			10,913.90	10,914
Nos.	f) Discharge Capacity 40 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
	Electrician	4.00	Hrs @ 87.50	350.00	
				600.00	
	Contractor's profit & overhead		20%	120.00	
	Total Labour rate			720.00	720.00
	2. Material				
	Screen Filter, 40m3/hr	1.00	Nos. @ 15,021	15,020.88	
	Contractor's profit & overhead		20%	3,004.18	
	Total Composite rate			18,745.06	18,745
	Item No. 29-28				
	Providing and fixing at site Semi Automatic Cleaning/ Screening Filter, confirming to ISO 9912 Imported or approved equivalent (similar specifications), complete in all respects.				
Nos.	a) Discharge Capacity 15 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
	Electrician	4.00	Hrs @ 87.50	350.00	
				600.00	
	Contractor's profit & overhead		20%	120.00	
	Total Labour rate			720.00	720.00
	2. Material				
	Semi Automatic Cleaning/screening Filter, 15m3/hr	1.00	Nos. @ 9,168	9,167.76	
	Contractor's profit & overhead		20%	1,833.55	
	Total Composite rate			11,721.31	11,721
Nos.	b) Discharge Capacity 20 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
	Electrician	4.00	Hrs @ 87.50	350.00	
				600.00	
	Contractor's profit & overhead		20%	120.00	
	Total Labour rate			720.00	720.00
	2. Material				
	Semi Automatic Cleaning/screening Filter, 20m3/hr	1.00	Nos. @ 10,834	10,834.32	
	Contractor's profit & overhead		20%	2,166.86	
	Total Composite rate			13,721.18	13,721
Nos.	c) Discharge Capacity 25 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Semi Automatic Cleaning/screening Filter, 25m3/hr	1.00	Nos. @ 16,668		16,668.12
	Contractor's profit & overhead		20%		3,333.62
	Total Composite rate				20,721.74
					20,722
Nos.	d) Discharge Capacity 30 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Semi Automatic Cleaning/screening Filter, 30m3/hr	1.00	Nos. @ 16,668		16,668.12
	Contractor's profit & overhead		20%		3,333.62
	Total Composite rate				20,721.74
					20,722
Nos.	e) Discharge Capacity 35 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Semi Automatic Cleaning/screening Filter, 35m3/hr	1.00	Nos. @ 18,336		18,335.52
	Contractor's profit & overhead		20%		3,667.10
	Total Composite rate				22,722.62
					22,723
	Item No. 29-29				
	Providing and fixing at site Hydrocyclone Filter, conforming to ISO 9912 Imported or approved equivalent (similar specifications), complete in all respects.				
	a) Discharge Capacity 15 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Hydrocyclone Filter, 15m3/hr	1.00	Nos. @ 16,387		16,386.72
	Contractor's profit & overhead		20%		3,277.34
	Total Composite rate				20,384.06
					20,384
Nos.	b) Discharge Capacity 20 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				720.00
					720.00
	2. Material				
	Hydrocyclone Filter, 20m3/hr	1.00	Nos. @ 18,835		18,835.32
	Contractor's profit & overhead		20%		3,767.06

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		23,322.38		23,322
Nos.	c) Discharge Capacity 25 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Hydrocyclone Filter, 25m3/hr	1.00	Nos. @ 22,475		22,475.04
	Contractor's profit & overhead		20%		4,495.01
	Total Composite rate				<u>27,690.05</u>
					27,690
Nos.	d) Discharge Capacity 30 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Hydrocyclone Filter, 30m3/hr	1.00	Nos. @ 23,544		23,544.36
	Contractor's profit & overhead		20%		4,708.87
	Total Composite rate				<u>28,973.23</u>
					28,973
Nos.	e) Discharge Capacity 35 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Hydrocyclone Filter, 35m3/hr	1.00	Nos. @ 23,544		23,544.36
	Contractor's profit & overhead		20%		4,708.87
	Total Composite rate				<u>28,973.23</u>
					28,973
Nos.	f) Discharge Capacity 40 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Hydrocyclone Filter, 40m3/hr	1.00	Nos. @ 23,544		23,544.36
	Contractor's profit & overhead		20%		4,708.87
	Total Composite rate				<u>28,973.23</u>
					28,973
Nos.	g) Discharge Capacity 45 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00		250.00
	Electrician	4.00	Hrs @ 87.50		350.00
					<u>600.00</u>
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				<u>720.00</u>
					720.00
	2. Material				
	Hydrocyclone Filter, 45m3/hr	1.00	Nos. @ 30,589		30,588.60
	Contractor's profit & overhead		20%		6,117.72
	Total Composite rate				<u>37,426.32</u>
					37,426

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Nos.	h) Discharge Capacity 50 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
	Electrician	4.00	Hrs @ 87.50	350.00	
				600.00	
	Contractor's profit & overhead		20%	120.00	
	Total Labour rate			720.00	720.00
	2. Material				
	Hydrocyclone Filter, 50m3/hr	1.00	Nos. @ 31,078	31,078.32	
	Contractor's profit & overhead		20%	6,215.66	
	Total Composite rate			38,013.98	38,014
Nos.	i) Discharge Capacity 80 m3/hr				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
	Electrician	4.00	Hrs @ 87.50	350.00	
				600.00	
	Contractor's profit & overhead		20%	120.00	
	Total Labour rate			720.00	720.00
	2. Material				
	Hydrocyclone Filter, 80m3/hr	1.00	Nos. @ 46,301	46,300.80	
	Contractor's profit & overhead		20%	9,260.16	
	Total Composite rate			56,280.96	56,281
Item No. 29-30					
Providing and fixing at site Ventury Assembly, confirming to ISO 15873 Imported or approved equivalent (similar specifications), complete in all respects.					
Nos.	a) Ventury Assembly, 1"				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Ventury Assembly, 1"	1.00	Nos. @ 2,917	2,917.32	
	Contractor's profit & overhead		20%	583.46	
	Total Composite rate			3,800.78	3,801
Nos.	b) Ventury Assembly, 1.5"				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Ventury Assembly, 1.5"	1.00	Nos. @ 5,433	5,433.12	
	Contractor's profit & overhead		20%	1,086.62	
	Total Composite rate			6,819.74	6,820
Nos.	c) Ventury Assembly, 2"				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Ventury Assembly, 2"	1.00	Nos. @ 5,834	5,833.80	
	Contractor's profit & overhead		20%	1,166.76	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		7,300.56		7,301
Item No. 29-31					
Providing at and fixing site Fertilizer Tank, confirming to ISO standard, Imported or approved equivalent (similar specifications), complete in all respects.					
Nos.	a) Fertilizer Tank, 30 Litres				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Fertilizer Tank, 30 litres	1.00	Nos. @ 8,981	8,981.28	
	Contractor's profit & overhead		20%	1,796.26	
	Total Composite rate			11,077.54	11,078
Nos.	b) Fertilizer Tank, 60 Litres				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Fertilizer Tank, 60 litres	1.00	Nos. @ 12,501	12,500.88	
	Contractor's profit & overhead		20%	2,500.18	
	Total Composite rate			15,301.06	15,301
Nos.	c) Fertilizer Tank, 90 Litres				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Fertilizer Tank, 90 litres	1.00	Nos. @ 13,880	13,880.16	
	Contractor's profit & overhead		20%	2,776.03	
	Total Composite rate			16,956.19	16,956
Nos.	d) Fertilizer Tank, 120 Litres				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Fertilizer Tank, 120 litres	1.00	Nos. @ 16,330	16,329.60	
	Contractor's profit & overhead		20%	3,265.92	
	Total Composite rate			19,895.52	19,896
Nos.	e) Fertilizer Tank, 150 Litres				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Fertilizer Tank, 150 litres	1.00	Nos. @ 17,963	17,962.56	
	Contractor's profit & overhead		20%	3,592.51	
	Total Composite rate			21,855.07	21,855

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Nos.	f) Fertilizer Tank, 200 Litres				
	1. Labour				
	Plumber	2.00	Hrs @ 125.00	250.00	
				250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300.00
	2. Material				
	Fertilizer Tank, 200 litres	1.00	Nos. @ 23,853	23,852.64	
	Contractor's profit & overhead		20%	4,770.53	
	Total Composite rate			28,923.17	28,923
	Item No. 29-32				
	Providing and fixing at site Integrated Drip Line, confirming to ISO- 8779, Imported or approved equivalent (similar specifications), complete in all respects.				
R.m	a) Drip Line Plain, 12 mm (Wall Thickness 1mm)				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Drip Line Plain, 12 mm (WT 1 mm)	1.00	Nos. @ 11	10.92	
	Special and Fittings		15%	1.64	
	Contractor's profit & overhead		20%	2.51	
	Total Composite rate			25.27	25
R.m	b) Drip Line Plain, 15 mm (Wall Thickness 1mm)				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Drip Line Plain, 15 mm (WT 1 mm)	1.00	Nos. @ 14	14.28	
	Special and Fittings		15%	2.14	
	Contractor's profit & overhead		20%	3.28	
	Total Composite rate			29.91	30
R.m	c) Drip Line Plain, 16 mm (Wall Thickness 1mm)				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Drip Line Plain 16mm (WT 1.2 mm)	1.00	Nos. @ 18	18.48	
	Special and Fittings		15%	2.77	
	Contractor's profit & overhead		20%	4.25	
	Total Composite rate			35.70	36
R.m	d) Drip Line Plain, 20 mm (Wall Thickness 1.5mm)				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	Drip Line Plain 20 mm (WT 1.5 mm)	1.00	Nos. @ 26		26.04
	Special and Fittings		15%		3.91
	Contractor's profit & overhead		20%		5.99
	Total Composite rate				46.14
R.m	e) Drip Line Plain, 25 mm (Wall Thickness 1.5mm)				46
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	2. Material				
	Drip Line Plain 25 mm (WT 1.5 mm)	1.00	Nos. @ 42		42.00
	Special and Fittings		15%		6.30
	Contractor's profit & overhead		20%		9.66
	Total Composite rate				68.16
R.m	f) Drip Line Plain, 32 mm (Wall Thickness 2.0mm)				68
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	2. Material				
	Drip Line Plain 32 mm (WT 2.0 mm)	1.00	Nos. @ 50		50.40
	Special and Fittings		15%		7.56
	Contractor's profit & overhead		20%		11.59
	Total Composite rate				79.75
					80
	Item No. 29-33				
	Providing and fixing at site Integrated Drip Line 16 mm thickness, conforming to ISO- 9261, Imported or approved equivalent (similar specifications), complete in all respects.				
R.m	a) Emitter spacing at 0.20 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
					10.20
	2. Material				
	Integrated Drip Line 16 mm, Emitter spacing at 0.40 m	1.00	Nos. @ 18		18.48
	Special and Fittings		15%		2.77
	Contractor's profit & overhead		20%		4.25
	Total Composite rate				35.70
					36
R.m	b) Emitter spacing at 0.30 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
					10.20
	2. Material				
	Integrated Drip Line 16 mm, Emitter spacing at 0.30 m	1.00	Nos. @ 19		19.32
	Special and Fittings		15%		2.90
	Contractor's profit & overhead		20%		4.44
	Total Composite rate				36.86
					37
R.m	c) Emitter spacing at 0.40 m				
	1. Labour				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	10.20				
	2. Material				
	Integrated Drip Line 16 mm, Emitter spacing at 0.40 m	1.00	Nos. @ 18		18.48
	Special and Fittings		15%		2.77
	Contractor's profit & overhead		20%		4.25
	Total Composite rate				35.70
	36				
R.m	d) Emitter spacing at 0.50 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	10.20				
	2. Material				
	Integrated Drip Line 16 mm, Emitter spacing at 0.50 m	1.00	Nos. @ 19		19.32
	Special and Fittings		15%		2.90
	Contractor's profit & overhead		20%		4.44
	Total Composite rate				36.86
	37				
R.m	e) Emitter spacing at 0.60 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	10.20				
	2. Material				
	Integrated Drip Line 16 mm, Emitter spacing at 0.60 m	1.00	Nos. @ 20.16		20.16
	Special and Fittings		15%		3.02
	Contractor's profit & overhead		20%		4.64
	Total Composite rate				38.02
	38				
	Item No. 29-34				
	Providing and fixing at site Integrated Drip Line 20mm thickness, conforming to ISO- 9261, Imported or approved equivalent (similar specifications), complete in all respects.				
R.m	a) Emitter spacing at 0.20 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	10.20				
	2. Material				
	Integrated Drip Line 20 mm, Emitter spacing at 0.40 m	1.00	Nos. @ 21.84		21.84
	Contractor's profit & overhead		20%		4.37
	Total Composite rate				36.41
	36				
R.m	b) Emitter spacing at 0.30 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50		3.50
	Pipe Fitter	0.04	Hrs @ 125.00		5.00
					8.50
	Contractor's profit & overhead		20%		1.70
					10.20
	10.20				
	2. Material				
	Integrated Drip Line 20 mm, Emitter spacing at 0.30 m	1.00	Nos. @ 23.52		23.52

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	4.70		
	Total Composite rate		38.42		38
R.m	c) Emitter spacing at 0.40 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead	20%	1.70		
			10.20		10.20
	2. Material				
	Integrated Drip Line 20 mm, Emitter spacing at 0.40 m	1.00	Nos. @ 22	21.84	
	Contractor's profit & overhead	20%	4.37		
	Total Composite rate		36.41		36
R.m	d) Emitter spacing at 0.50 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead	20%	1.70		
			10.20		10.20
	2. Material				
	Integrated Drip Line 20 mm, Emitter spacing at 0.50 m	1.00	Nos. @ 24	24.36	
	Contractor's profit & overhead	20%	4.87		
	Total Composite rate		39.43		39
R.m	e) Emitter spacing at 0.60 m				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead	20%	1.70		
			10.20		10.20
	2. Material				
	Integrated Drip Line 20 mm, Emitter spacing at 0.60 m	1.00	Nos. @ 23.52	23.52	
	Contractor's profit & overhead	20%	4.70		
	Total Composite rate		38.42		38
	Item No. 29-35				
	Providing and fixing at site Drippers, confirming to ISO- 926, Imported or approved equivalent (similar specifications), complete in all respects.				
Nos.	a) 20 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead	20%	1.70		
			10.20		10.20
	2. Material				
	Dripper (20 LPH, PC)	1.00	Nos. @ 14.28	14.28	
	Contractor's profit & overhead	20%	2.86		
	Total Composite rate		27.34		27
Nos.	b) 24 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead	20%	1.70		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			10.20		10.20
	2. Material				
	Dripper (24 LPH, PC)	1.00	Nos. @ 14.28	14.28	
	Contractor's profit & overhead		20%	2.86	
	Total Composite rate			27.34	27
Nos.	c) 40 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Dripper (40 LPH, PC)	1.00	Nos. @ 15.96	15.96	
	Contractor's profit & overhead		20%	3.19	
	Total Composite rate			29.35	29
Nos.	d) 70 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Dripper (70 LPH, PC)	1.00	Nos. @ 15.96	15.96	
	Contractor's profit & overhead		20%	3.19	
	Total Composite rate			29.35	29
Nos.	e) 80 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Dripper (80 LPH, PC)	1.00	Nos. @ 17.64	17.64	
	Contractor's profit & overhead		20%	3.53	
	Total Composite rate			31.37	31
	Item No. 29-36				
	Providing at site Drippers, confirming to ISO- 926, Imported or approved equivalent (similar specifications), complete in all respects.				
Nos.	a) 20 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Dripper (20 LPH, PC)	1.00	Nos. @ 14.28	14.28	
	Contractor's profit & overhead		20%	2.86	
	Total Composite rate			27.34	27
Nos.	b) 25 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			10.20		10.20
	2. Material				
	Dripper (24 LPH, PC)	1.00	Nos. @ 14.28	14.28	
	Contractor's profit & overhead		20%	2.86	
	Total Composite rate			27.34	27
Nos.	c) 40 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Dripper (40 LPH, PC)	1.00	Nos. @ 15.96	15.96	
	Contractor's profit & overhead		20%	3.19	
	Total Composite rate			29.35	29
Nos.	d) 80 Litres per Hours				
	1. Labour				
	Labourer	0.04	Hrs @ 87.50	3.50	
	Pipe Fitter	0.04	Hrs @ 125.00	5.00	
				8.50	
	Contractor's profit & overhead		20%	1.70	
				10.20	10.20
	2. Material				
	Dripper (80 LPH, PC)	1.00	Nos. @ 17.64	17.64	
	Contractor's profit & overhead		20%	3.53	
	Total Composite rate			31.37	31

Item No. 29-37

Providing and installing PreCast Parabolic Segments (PCPS) for lining of Watercourses as per drawings and with concrete mix ratio of 1:1:2, compacted on vibrating table, curing (Pond) for 28 days in the manufacturing yard, transporting from yard to field, laying/ installing at sites as per engineering design and slope, ensuring proper jointing of male female ends and filling joints with 1:3 cement sand mortar and finally compacted backfilling along bothsides as per dimensions indicated on drawings and to the full satisfaction of Engineer in charge.

R.m	a) Precast Water Channel (PCPL) (14 x 9)						
	1. Labour						
	Mason	1.00	Hrs @ 125.00	125.00			
	Labourer	1.50	Hrs @ 87.50	131.25			
				256.25			
	Contractor's profit & overhead		20%	51.25			
				307.50			307.50
	2. Material						
	Precast Water Channel (PCPL) (14 x 9)	1.00	R.M @ 520.00	520.00			
	Fittings and Special		15%	78.00			
				598.00			
	Contractor's profit & overhead		20%	119.60			
				1,025.10			1025.10
R.m	b) Precast Water Channel (PCPL) (18 x 12)						
	1. Labour						
	Mason	1.00	Hrs @ 125.00	125.00			
	Labourer	1.50	Hrs @ 87.50	131.25			
				256.25			
	Contractor's profit & overhead		20%	51.25			

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			307.50		307.50
	2.Material				
	Precast Water Channel (PCPL) (18 x 12)	1.00	R.M @	617.00	617.00
	Fittings and Special			15%	<u>92.55</u>
					709.55
	Contractor's profit & overhead			20%	<u>141.91</u>
					1,158.96
					1158.95
R.m	c) Precast Water Channel (PCPL) (24 x 18)				
	1. Labour				
	Mason	1.50	Hrs @	125.00	187.50
	Labourer	3.00	Hrs @	87.50	<u>262.50</u>
					450.00
	Contractor's profit & overhead			20%	<u>90.00</u>
					540.00
					540.00
	2.Material				
	Precast Water Channel (PCPL) (24 x 18)	1.00	R.M @	971.00	971.00
	Fittings and Special			15%	<u>145.65</u>
					1,116.65
	Contractor's profit & overhead			20%	<u>223.33</u>
					1,879.98
					1880.00
R.m	d) Precast Water Channel (PCPL) (24 x 14)				
	1. Labour				
	Mason	1.50	Hrs @	125.00	187.50
	Labourer	3.00	Hrs @	87.50	<u>262.50</u>
					450.00
	Contractor's profit & overhead			20%	<u>90.00</u>
					540.00
					540.00
	2.Material				
	Precast Water Channel (PCPL) (24 x 14)	1.00	R.M @	735.00	735.00
	Fittings and Special			15%	<u>110.25</u>
					845.25
	Contractor's profit & overhead			20%	<u>169.05</u>
					1,554.30
					1554.30
R.m	e) Precast Water Channel (PCPL) (27 x 18)				
	1. Labour				
	Mason	1.50	Hrs @	125.00	187.50
	Labourer	3.00	Hrs @	87.50	<u>262.50</u>
					450.00
	Contractor's profit & overhead			20%	<u>90.00</u>
					540.00
					540.00
	2.Material				
	Precast Water Channel (PCPL) (27 x 18)	1.00	R.M @	1026.00	1,026.00
	Fittings and Special			15%	<u>153.90</u>
					1,179.90
	Contractor's profit & overhead			20%	<u>235.98</u>
					1,955.88
					1955.90
R.m	f) Precast Water Channel (PCPL) (30 x 21)				
	1. Labour				
	Mason	1.50	Hrs @	125.00	187.50
	Labourer	3.00	Hrs @	87.50	<u>262.50</u>
					450.00
	Contractor's profit & overhead			20%	<u>90.00</u>
					540.00
					540.00
	2.Material				
	Precast Water Channel (PCPL) (30 x 21)	1.00	R.M @	1353.00	1,353.00
	Fittings and Special			15%	<u>202.95</u>
					1,555.95
	Contractor's profit & overhead			20%	<u>311.19</u>
					2,407.14
					2407.15

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
R.m	g) Precast Water Channel (PCPL) (36 x 24)				
	1. Labour				
	Mason	1.50	Hrs @	125.00	187.50
	Labourer	3.00	Hrs @	87.50	262.50
					<u>450.00</u>
	Contractor's profit & overhead			20%	90.00
					<u>540.00</u>
					540.00
	2. Material				
	Precast Water Channel (PCPL) (36 x 24)	1.00	R.M @	1694.00	1,694.00
	Fittings and Special			15%	<u>254.10</u>
					1,948.10
	Contractor's profit & overhead			20%	<u>389.62</u>
					<u>2,877.72</u>
					2877.70
R.m	h) Precast Water Channel (PCPL) (45 x 27)				
	1. Labour				
	Mason	2.00	Hrs @	125.00	250.00
	Labourer	4.00	Hrs @	87.50	350.00
					<u>600.00</u>
	Contractor's profit & overhead			20%	120.00
					<u>720.00</u>
					720.00
	2. Material				
	Precast Water Channel (PCPL) (45 x 27)	1.00	R.M @	1828.00	1,828.00
	Fittings and Special			15%	<u>274.20</u>
					2,102.20
	Contractor's profit & overhead			20%	<u>420.44</u>
					<u>3,242.64</u>
					3242.65
R.m	i) Precast Naka Structure				
	1. Labour				
	Mason	2.00	Hrs @	125.00	250.00
	Labourer	4.00	Hrs @	87.50	350.00
					<u>600.00</u>
	Contractor's profit & overhead			20%	120.00
					<u>720.00</u>
					720.00
	2. Material				
	Precast Naka Structure (12")	1.00	R.M @	348.00	348.00
	Fittings and Special			15%	<u>52.20</u>
					400.20
	Contractor's profit & overhead			20%	<u>80.04</u>
					<u>1,200.24</u>
					1200.25
R.m	j) Precast Naka Structure 15"				
	1. Labour				
	Mason	0.25	Hrs @	125.00	31.25
	Labourer	0.50	Hrs @	87.50	43.75
					<u>75.00</u>
	Contractor's profit & overhead			20%	15.00
					<u>90.00</u>
					90.00
	2. Material				
	Precast Naka Structure (15")	1.00	R.M @	488.38	488.38
	Fittings and Special			15%	<u>73.26</u>
					561.64
	Contractor's profit & overhead			20%	<u>112.33</u>
					<u>763.96</u>
					763.95
R.m	k) Precast Naka Structure 18"				
	1. Labour				
	Mason	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					<u>150.00</u>
	Contractor's profit & overhead			20%	30.00
					<u>180.00</u>
					180.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2.Material				
	Precast Naka Structure (18")	1.00	R.M @	641.00	641.00
	Fittings and Special			15%	96.15
					737.15
	Contractor's profit & overhead			20%	147.43
					1,064.58
					1064.60
R.m	I Precast Naka Structure 20"				
	1. Labour				
	Mason	0.50	Hrs @	125.00	62.50
	Labourer	1.00	Hrs @	87.50	87.50
					150.00
	Contractor's profit & overhead			20%	30.00
					180.00
					180.00
	2.Material				
	Precast Naka Structure (20")	1.00	R.M @	795.00	795.00
	Fittings and Special			15%	119.25
					914.25
	Contractor's profit & overhead			20%	182.85
					1,277.10
					1277.10
R.m	m Precast Naka Structure 24"				
	1. Labour				
	Mason	0.75	Hrs @	125.00	93.75
	Labourer	1.50	Hrs @	87.50	131.25
					225.00
	Contractor's profit & overhead			20%	45.00
					270.00
					270.00
	2.Material				
	Precast Naka Structure (24")	1.00	R.M @	969.00	969.00
	Fittings and Special			15%	145.35
					1,114.35
	Contractor's profit & overhead			20%	222.87
					1,607.22
					1607.20

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30-1					
Light circuit concealed/open wiring with length upto 75 ft. (25m) from distribution board to point/switch with 3x2.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables for offices/multi storeyed buildings.					
Point a) Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.					
Detail of cost for 100 m					
1. Labour					
Electrician	8.00	Hrs	@	125.00	1,000.00
Helper	8.00	Hrs	@	75.00	600.00
					<u>1,600.00</u>
Contractor's profit & overhead				20%	320.00
Total Labour rate	25 R.M./ point				<u>480.00</u> 480
2. Material					
2.5 sq.mm single core	300.00	R.M.	@	38.70	11,610.00
PVC conduit pipe 20 mm	75.00	R.M.	@	20.90	1,567.50
					<u>13,177.50</u>
Contractor's profit & overhead				20%	2,635.50
Total Composite rate					<u>4,433.25</u> 4,433
Point b) Open batten wiring with wooden batten and accessories such as clamps, nails, junction boxes etc.					
Detail of cost for 100 m					
1. Labour					
Total Labour rate	Same as in item 30-1(a)				480.00 480
2. Material					
2.5 sq.mm single core	300.00	R.M.	@	38.70	11,610.00
Wooden batton 20 mm wide	100.00	R.M.	@	15.00	1,500.00
					<u>13,110.00</u>
Accessories				10%	1,311.00
					<u>14,421.00</u>
Contractor's profit & overhead				20%	2,884.20
Total Composite rate					<u>4,806.30</u> 4,806
Point c) Open pipe wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.					
Detail of cost for 100 m					
1. Labour					
Electrician	14.00	Hrs	@	125.00	1,750.00
Helper	14.00	Hrs	@	75.00	1,050.00
					<u>2,800.00</u>
Contractor's profit & overhead				20%	560.00
Total Labour rate	25 R.M./point				<u>840.00</u> 840
2. Material					
2.5 sq.mm single core	300.00	R.M.	@	38.70	11,610.00
PVC conduit pipe 20 mm	75.00	R.M.	@	20.90	1,567.50
					<u>13,177.50</u>
Contractor's profit & overhead				20%	2,635.50
Total Composite rate					<u>4,793.25</u> 4,793
Point d) Open pipe wiring with M.S. conduit and accessories such as bends, elbows, junction boxes etc.					
Detail of cost for 100 m					
1. Labour					
Total Labour rate	Same as in item 30-1(c)				840.00 840
2. Material					
2.5 sq.mm single core	300.00	R.M.	@	38.70	11,610.00
M.S. pipe	75.00	R.M.	@	350.00	26,250.00
					<u>37,860.00</u>
Accessories				10%	3,786.00
					<u>41,646.00</u>
Contractor's profit & overhead				20%	8,329.20
Total Composite rate					<u>13,333.80</u> 13,334

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

Item No. 30- 2

Light circuit concealed/open wiring with length upto 65 ft. (20m) from distribution board to point/switch with 3x2.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables for offices/multi storeyed buildings.

Point a) Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

Total Labour rate	Rate 80% of item 30-1(a)	384.00	384
Total Labour rate			
Total Composite rate	Rate 80% of item 30-1(a)	3,546.60	3,547

Point b) Open batten wiring with wooden batten and accessories such as clamps, nails, junction boxes etc.

Total Labour rate	Rate 80% of item 30-1(a)	384.00	384
Total Composite rate	Rate 80% of item 30-1(b)	3,845.04	3,845

Point c) Open pipe wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

Total Labour rate	Rate 80% of item 30-1(c)	672.00	672
Total Composite rate	Rate 80% of item 30-1(c)	3,834.60	3,835

Point d) Open pipe wiring with M.S. conduit and accessories such as bends, elbows, junction boxes etc.

Total Labour rate	Rate 80% of item 30-1(c)	672.00	672
Total Composite rate	Rate 80% of item 30-1(d)	10,667.04	10,667

Item No. 30- 3

Concealed/open wiring from point to switch with length upto 30 ft. (10m) including any switch to switch wiring with 3x1.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables,

Point a) Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour						
Electrician	3.00	Hrs	@	125.00	375.00	
Helper	3.00	Hrs	@	75.00	225.00	
					600.00	
Contractor's profit & overhead				20%	120.00	
Total Labour rate					720.00	720
2. Material						
1.5 sq.mm single core	30.00	R.M.	@	24.00	720.00	
PVC conduit pipe 20 mm	7.50	R.M.	@	20.90	156.75	
					876.75	
Accessories				10%	87.68	
					964.43	
Contractor's profit & overhead				20%	192.89	
Total Composite rate					1,877.31	1,877

Point b) Open batten wiring with wooden batten and accessories such as clamps, nails, junction boxes etc.

1. Labour						
Total Labour rate	Same as in item 30-3(a)				720.00	720
2. Material						
1.5 sq.mm single core	30.00	R.M.	@	24.00	720.00	
Wooden batton 20 mm wide	10.00	R.M.	@	15.00	150.00	
					870.00	
Accessories				10%	87.00	
					957.00	
Contractor's profit & overhead				20%	191.40	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		1,868.40		1,868
Point c)	Open pipe wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.				
1. Labour					
Electrician	3.25 Hrs @	125.00			406.25
Helper	3.25 Hrs @	75.00			243.75
					<u>650.00</u>
Contractor's profit & overhead		20%			130.00
Total Labour rate	25 R.M./point				<u>780.00</u> 780
2. Material					
1.5 sq.mm single core	20.00 R.M. @	24.00			480.00
PVC conduit pipe 20 mm	7.50 R.M. @	20.90			156.75
					<u>636.75</u>
Contractor's profit & overhead		20%			127.35
Total Composite rate					<u>1,544.10</u> 1,544
Point d)	Open pipe wiring with M.S. conduit and accessories such as bends, elbows, junction boxes etc.				
1. Labour					
Total Labour rate	Same as in item 30-3(c)				780.00 780
2. Material					
1.5 sq.mm single core	20.00 R.M. @	24.00			480.00
M.S. pipe	7.50 R.M. @	350.00			2,625.00
					<u>3,105.00</u>
Accessories		10%			310.50
					<u>3,415.50</u>
Contractor's profit & overhead		20%			683.10
Total Composite rate					<u>4,878.60</u> 4,879
Item No. 30- 4					
	Concealed/open wiring from point to point with length upto 10 ft. (3m) with 3x1.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables.				
Point a)	Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.				
Total Labour rate	Rate 30% of item 30-3(a)				216.00 216
Total Composite rate	Rate 30% of item 30-3(a)				563.19 563
Point b)	Open batten wiring with wooden batten and accessories such as clamps, nails, junction boxes etc.				
Total Labour rate	Rate 30% of item 30-3(a)				216.00 216
Total Composite rate	Rate 30% of item 30-3(b)				560.52 561
Point c)	Open pipe wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.				
Total Labour rate	Rate 30% of item 30-3(c)				234.00 234
Total Composite rate	Rate 30% of item 30-3(c)				463.23 463

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Point d) Open pipe wiring with M.S. conduit and accessories such as bends, elbows, junction boxes etc.

Total Labour rate	Rate 30% of item 30-3(c)	234.00	234
Total Composite rate	Rate 30% of item 30-3(d)	1,463.58	1,464

Item No. 30- 5

Description same as item 30- 3 but wiring for two-way light points such that one light point is controlled by two numbers two-way switches and length from switches to point is upto 30 ft. (10 m).

Point a) Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour					
Electrician	4.00	Hrs	@	125.00	500.00
Helper	4.00	Hrs	@	75.00	300.00
					800.00
Contractor's profit & overhead				20%	160.00
Total Labour rate					960.00
2. Material					
1.5 sq.mm single core	30.00	R.M.	@	24.00	720.00
PVC conduit pipe 20 mm	10.00	R.M.	@	20.90	209.00
					929.00
Accessories + wastage				35%	325.15
					1,254.15
Contractor's profit & overhead				20%	250.83
Total Composite rate					2,464.98

Point b) Open batten wiring with wooden batten and accessories such as clamps, nails, junction boxes etc.

1. Labour					
Total Labour rate	Same as in item 30-5(a)				960.00
2. Material					
1.5 sq.mm single core	30.00	R.M.	@	24.00	720.00
Wooden batton 20 mm wide	10.00	R.M.	@	15.00	150.00
Copper wire (14 SWG)	10.00	R.M.	@	120.00	1,200.00
					2,070.00
Accessories + wastage				30%	621.00
					2,691.00
Contractor's profit & overhead				20%	538.20
Total Composite rate					4,189.20

Point c) Open pipe wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour					
Total Labour rate	Same as in item 30-5(a)				960.00
2. Material					
1.5 sq.mm single core	30.00	R.M.	@	24.00	720.00
PVC conduit pipe 20 mm	10.00	R.M.	@	20.90	209.00
Copper wire (14 SWG)	10.00	R.M.	@	120.00	1,200.00
					2,129.00
Accessories + wastage				30%	638.70
					2,767.70
Contractor's profit & overhead				20%	553.54
Total Composite rate					4,281.24

Point d) Open pipe wiring with M.S. conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour					
Total Labour rate	Same as in item 30-5(a)				960.00
2. Material					
1.5 sq.mm single core	30.00	R.M.	@	24.00	720.00
M.S. pipe	10.00	R.M.	@	350.00	3,500.00
Copper wire (14 SWG)	10.00	R.M.	@	120.00	1,200.00
					5,420.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
					5,420.00
	Accessories + wastage	30%			1,626.00
					7,046.00
	Contractor's profit & overhead	20%			1,409.20
	Total Composite rate				9,415.20
					9,415
	Item No. 30- 6				
	Concealed/open wiring for two way light points such that two light points are controlled by 2 numbers two way switches and length from switches to point is upto 40 ft. (12.5 m) with 3x1.5Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables				
Point a)	Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.				
	1. Labour				
	Electrician	4.50	Hrs @	125.00	562.50
	Helper	4.50	Hrs @	75.00	337.50
					900.00
	Contractor's profit & overhead	20%			180.00
	Total Labour rate				1,080.00
					1,080
	2. Material				
	1.5 sq.mm single core	48.00	R.M. @	24.00	1,152.00
	PVC conduit pipe 20 mm	12.50	R.M. @	20.90	261.25
					1,413.25
	Accessories + wastage	30%			423.98
					1,837.23
	Contractor's profit & overhead	20%			367.45
	Total Composite rate				3,284.67
					3,285
Point b)	Open batten wiring with wooden batten and accessories such as clamps, nails, junction boxes etc.				
	1. Labour				
	Total Labour rate	Same as in item 30-6(a)			1,080.00
					1,080
	2. Material				
	1.5 sq.mm single core	35.00	R.M. @	24.00	840.00
	Wooden batton 20 mm wide	12.50	R.M. @	15.00	187.50
	Copper wire (14 SWG)	13.00	R.M. @	120.00	1,560.00
					2,587.50
	Accessories + wastage	30%			776.25
					3,363.75
	Contractor's profit & overhead	20%			672.75
	Total Composite rate				5,116.50
					5,117
Point c)	Open pipe wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.				
	1. Labour				
	Total Labour rate	Same as in item 30-6(a)			1,080.00
					1,080
	2. Material				
	1.5 sq.mm single core	35.00	R.M. @	24.00	840.00
	PVC conduit pipe 20 mm	12.50	R.M. @	20.90	261.25
	Copper wire (14 SWG)	13.00	R.M. @	120.00	1,560.00
					2,661.25
	Accessories + wastage	30%			798.38
					3,459.63
	Contractor's profit & overhead	20%			691.93
	Total Composite rate				5,231.55
					5,232

Unit	Description	Component Cost	Unit	Rate
		(Rs)		(Rs)

Point d) Open pipe wiring with M.S. conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour						
Total Labour rate	Same as in item 30-6(a)			1,080.00	1,080	
2. Material						
1.5 sq.mm single core	35.00	R.M.	@	24.00	840.00	
M.S. pipe	12.50	R.M.	@	350.00	4,375.00	
Copper wire (14 SWG)	13.00	R.M.	@	120.00	1,560.00	
					6,775.00	
Accessories + wastage				30%	2,032.50	
					8,807.50	
Contractor's profit & overhead				20%	1,761.50	
Total Composite rate					11,649.00	11,649

Item No. 30- 7

Concealed/open wiring for two way light points such that three light points are controlled by 2 numbers two way switches and length from switches to point is upto 50 ft. (15m) with 3x1.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables

Point a) Concealed wiring with 3/4" (20mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour						
Electrician	5.50	Hrs	@	125.00	687.50	
Helper	5.50	Hrs	@	75.00	412.50	
					1,100.00	
Contractor's profit & overhead				20%	220.00	
Total Labour rate					1,320.00	1,320
2. Material						
1.5 sq.mm single core	55.00	R.M.	@	24.00	1,320.00	
PVC conduit pipe 20 mm	15.00	R.M.	@	20.90	313.50	
					1,633.50	
Accessories + wastage				35%	571.73	
					2,205.23	
Contractor's profit & overhead				20%	441.05	
Total Composite rate					3,966.27	3,966

Point b) Open batten wiring with wooden batten and accessories such as clamps, nails, junction boxes etc.

1. Labour						
Total Labour rate	Same as in item 30-7(a)			1,320.00	1,320	
2. Material						
1.5 sq.mm single core	40.00	R.M.	@	24.00	960.00	
Wooden batton 20 mm wide	15.00	R.M.	@	15.00	225.00	
Copper wire (14 SWG)	15.00	R.M.	@	120.00	1,800.00	
					2,985.00	
Accessories + wastage				30%	895.50	
					3,880.50	
Contractor's profit & overhead				20%	776.10	
Total Composite rate					5,976.60	5,977

Point c) Open pipe wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour						
Total Labour rate	Same as in item 30-7(a)			1,320.00	1,320	
2. Material						
1.5 sq.mm single core	40.00	R.M.	@	24.00	960.00	
PVC conduit pipe 20 mm	15.00	R.M.	@	20.90	313.50	
Copper wire (14 SWG)	15.00	R.M.	@	120.00	1,800.00	
					3,073.50	
Accessories + wastage				30%	922.05	
					3,995.55	
Contractor's profit & overhead				20%	799.11	
Total Composite rate					6,114.66	6,115

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Point d) Open pipe wiring with M.S. conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour				
Total Labour rate	Same as in item 30-7(a)		1,320.00	1,320
2. Material				
1.5 sq.mm single core	40.00	R.M.	@ 24.00	960.00
M.S. pipe	15.00	R.M.	@ 350.00	5,250.00
Copper wire (14 SWG)	15.00	R.M.	@ 120.00	1,800.00
				8,010.00
Accessories + wastage		30%		2,403.00
				10,413.00
Contractor's profit & overhead		20%		2,082.60
Total Composite rate			13,815.60	13,816

Item No. 30- 8

Concealed/open wiring for 5 Amp. Socket outlets from nearest available circuit with a length upto 20 ft. (6m) with 3x1.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables

Point a) Concealed wiring with 3/4" (20mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour				
Electrician	2.50	Hrs	@ 125.00	312.50
Helper	2.50	Hrs	@ 75.00	187.50
				500.00
Contractor's profit & overhead		20%		100.00
Total Labour rate			600.00	600
2. Material				
1.5 sq.mm single core	18.00	R.M.	@ 24.00	432.00
PVC conduit pipe 20 mm	6.00	R.M.	@ 20.90	125.40
				557.40
Accessories + wastage		30%		167.22
				724.62
Contractor's profit & overhead		20%		144.92
Total Composite rate			1,469.54	1,470

Point b) Open batten wiring with wooden batten and accessories such as clamps, nails, junction boxes etc.

1. Labour				
Total Labour rate	Same as in item 30-8(a)		600.00	600
2. Material				
1.5 sq.mm single core	12.00	R.M.	@ 24.00	288.00
Wooden batton 20 mm wide	6.00	R.M.	@ 15.00	90.00
Copper wire (14 SWG)	6.00	R.M.	@ 120.00	720.00
				1,098.00
Accessories + wastage		30%		329.40
				1,427.40
Contractor's profit & overhead		20%		285.48
Total Composite rate			2,312.88	2,313

Point c) Open pipe wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour				
Total Labour rate	Same as in item 30-8(a)		600.00	600
2. Material				
1.5 sq.mm single core	12.00	R.M.	@ 24.00	288.00
PVC conduit pipe 20 mm	6.00	R.M.	@ 20.90	125.40
Copper wire (14 SWG)	6.00	R.M.	@ 120.00	720.00
				1,133.40
Accessories + wastage		30%		340.02
				1,473.42
Contractor's profit & overhead		20%		294.68
Total Composite rate			2,368.10	2,368

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Point d) Open pipe wiring with M.S. conduit and accessories such as bends, elbows, junction boxes etc.

1. Labour				
Total Labour rate	Same as in item 30-8(a)		600.00	600
2. Material				
1.5 sq.mm single core	12.00	R.M.	@ 24.00	288.00
M.S. pipe	6.00	R.M.	@ 350.00	2,100.00
Copper wire (14 SWG)	6.00	R.M.	@ 120.00	720.00
				3,108.00
Accessories + wastage		30%		932.40
				4,040.40
Contractor's profit & overhead		20%		808.08
Total Composite rate			5,448.48	5,449

Item No. 30- 9**R.M. Wiring of 5 Amps. socket outlet with 4 sq.mm PVC insulated single core copper conductor cable including 3/4" (20mm) dia. PVC conduit, 8.7sq.mm (10SWG) copper wire as earth continuity conductor and wiring accessories such as bends, elbows, junction boxes etc.**

Detail of cost for 100 m.

1. Labour				
Electrician	16.00	Hrs	@ 125.00	2,000.00
Helper	16.00	Hrs	@ 75.00	1,200.00
				3,200.00
Contractor's profit & overhead		20%		640.00
Total Labour rate			38.40	38
2. Material				
4 Sq.mm single core	300.00	R.M.	@ 63.30	18,990.00
PVC conduit pipe 20 mm	75.00	R.M.	@ 20.90	1,567.50
				20,557.50
Accessories + wastage		20%		4,111.50
				24,669.00
Contractor's profit & overhead		20%		4,933.80
Total Composite rate			334.43	334

Item No. 30- 10**R.M. Description same as in Item 30- 9 but with 2.5 sq.mm PVC insulated single core copper conductor cable.**

1. Labour				
Total Labour rate	Same as in item 30-9		38.40	38
2. Material				
2.5 sq.mm single core	300.00	R.M.	@ 38.70	11,610.00
PVC conduit pipe 20 mm	75.00	R.M.	@ 20.90	1,567.50
				13,177.50
Accessories + wastage		20%		2,635.50
				15,813.00
Contractor's profit & overhead		20%		3,162.60
Total Composite rate			228.16	228

Unit	Description	Component Cost		Unit Rate	
				(Rs)	(Rs)
Item No. 30-11					
Unit	Supply and install 1-gang, 5 Amp, 250 Volt., plate type moulded switch including appropriate size plastic box to be fixed recessed in wall.				
	Detail of cost for 12 units				
	1. Labour				
	Electrician	3.00	Hrs @	125.00	375.00
	Helper	3.00	Hrs @	75.00	225.00
					600.00
	Contractor's profit & overhead			20%	120.00
	Total Labour rate				60.00
	2. Material				
	Switch 1 gang	12.00	No. @	240.00	2,880.00
	Electric plastic box with plate single hole	12.00	No. @	105.00	1,260.00
					4,140.00
	3. Tools & Plant				
	Total			10%	414.00
					4,554.00
	Contractor's profit & overhead			20%	910.80
	Total Composite rate				515.40
					60
					515
Item No. 30-12					
Unit	Description same as in Item 30-11 but with 2 gang switch.				
	Detail of cost for 12 units				
	1. Labour				
	Electrician	4.00	Hrs @	125.00	500.00
	Helper	4.00	Hrs @	75.00	300.00
					800.00
	Contractor's profit & overhead			20%	160.00
	Total Labour rate				80.00
	2. Material				
	Switch 2 gang	12.00	No. @	340.00	4,080.00
	Electric plastic box with plate two to three hole	12.00	No. @	145.00	1,740.00
					5,820.00
	3. Tools & Plant				
	Total			10%	582.00
					6,402.00
	Contractor's profit & overhead			20%	1,280.40
	Total Composite rate				720.20
					80
					720
Item No. 30-13					
Unit	Description same as in Item 30-11 but with 3 gang switch.				
	Detail of cost for 12 units				
	1. Labour				
	Electrician	5.00	Hrs @	125.00	625.00
	Helper	5.00	Hrs @	75.00	375.00
					1,000.00
	Contractor's profit & overhead			20%	200.00
	Total Labour rate				100.00
	2. Material				
	Switch 3 gang	12.00	No. @	420.00	5,040.00
	Electric plastic box with plate two to three hole	12.00	No. @	145.00	1,740.00
					6,780.00
	3. Tools & Plant				
	Total			10%	678.00
					7,458.00
	Contractor's profit & overhead			20%	1,491.60
	Total Composite rate				845.80
					100
					846

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
Item No. 30-14						
Unit	Description same as in Item 30-11 but with 4 gang switch.					
Detail of cost for 12 units						
1. Labour						
Electrician	6.00	Hrs	@	125.00	750.00	
Helper	6.00	Hrs	@	75.00	450.00	
					1,200.00	
Contractor's profit & overhead				20%	240.00	
Total Labour rate					120.00	120
2. Material						
Switch 4 gang	12.00	No.	@	504.00	6,048.00	
Electric plastic box with plate two to three hole	12.00	No.	@	145.00	1,740.00	
					7,788.00	
3. Tools & Plant						
Total				10%	778.80	
					8,566.80	
Contractor's profit & overhead				20%	1,713.36	
Total Composite rate					976.68	977
Item No. 30-15						
Unit	Supply and installation of 5 Amp. 250 Volt, moulded, two-way single pole, flush mounting type light control single switch including appropriate size plastic box to be fixed recessed in wall.					
Detail of cost for 12 units						
1. Labour						
Total Labour rate	Same as in item No.30-13				100.00	100
2. Material						
Switch 2 way	12.00	No.	@	346.00	4,152.00	
Electric plastic box with plate single hole	12.00	No.	@	105.00	1,260.00	
Electric - Page bar	12.00	No.	@	300.00	3,600.00	
					9,012.00	
3. Tools & Plant						
Total				10%	901.20	
					9,913.20	
Contractor's profit & overhead				20%	1,982.64	
Total Composite rate					1,091.32	1,091
Item No. 30- 16						
No.	Supply and install 5 Amp, 250 Volt moulded, one-way, single pole, flush mounting piano type light control switch on appropriate size plastic box to be fixed recessed in wall alongwith switch box and plate suitable for single switch on a common board.					
Detail of cost for 12 units						
1. Labour						
Electrician	12.00	Hrs	@	125.00	1,500.00	
Helper	12.00	Hrs	@	75.00	900.00	
					2,400.00	
Contractor's profit & overhead				20%	480.00	
Total Labour rate					240.00	240
2. Material						
Switch piano	12.00	No.	@	40.00	480.00	
Electric plastic box with plate single hole	12.00	No.	@	105.00	1,260.00	
					1,740.00	
3. Tools & Plant						
Total				10%	174.00	
					1,914.00	
Contractor's profit & overhead				20%	382.80	
Total Composite rate					431.40	431

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 17					
No.	Supply and install 5 Amp, 250 Volt moulded, one-way, single pole, flush mounting piano type light control switch alongwith fan dimmers on appropriate size plastic box to be fixed recessed in wall alongwith switch box and plate suitable for upto 3 switches on a common board.				
Detail of cost for 12 units					
1. Labour					
	Electrician	24.00	Hrs @	125.00	3,000.00
	Helper	24.00	Hrs @	75.00	1,800.00
					<u>4,800.00</u>
	Contractor's profit & overhead		20%		960.00
	Total Labour rate				<u>480.00</u> 480
2. Material					
	Switch piano	12.00	No. @	40.00	480.00
	Electric plastic box with plate two to three hole	12.00	No. @	145.00	1,740.00
					<u>2,220.00</u>
	3. Tools & Plant			10%	222.00
	Total				<u>2,442.00</u>
	Contractor's profit & overhead		20%		444.00
	Total Composite rate				<u>720.50</u> 721
Item No. 30-18					
No.	Description same as in item 30-17 but upto 4 to 6 switches on a common board.				
Detail of cost for 12 units					
1. Labour					
	Electrician	18.00	Hrs @	125.00	2,250.00
	Helper	18.00	Hrs @	75.00	1,350.00
					<u>3,600.00</u>
	Contractor's profit & overhead		20%		720.00
	Total Labour rate				<u>360.00</u> 360
2. Material					
	Switch piano	12.00	No. @	40.00	480.00
	Electric plastic box with plate four to six hole	12.00	No. @	180.00	2,160.00
					<u>2,640.00</u>
	3. Tools & Plant			10%	264.00
	Total				<u>2,904.00</u>
	Contractor's profit & overhead		20%		528.00
	Total Composite rate				<u>646.00</u> 646
Item No. 30-19					
No.	Supply and install combined 2/3 pin 5 Amps, 250 Volt switch socket unit including plastic box to be fixed recessed in wall.				
Detail of cost for 12 units					
1. Labour					
	Electrician	6.00	Hrs @	125.00	750.00
	Helper	6.00	Hrs @	75.00	450.00
					<u>1,200.00</u>
	Contractor's profit & overhead		20%		240.00
	Total Labour rate				<u>120.00</u> 120
2. Material					
	Switch socket 5 Amp.	12.00	No. @	405.00	4,860.00
	Plastic box	12.00	No. @	250.00	3,000.00
					<u>7,860.00</u>
	3. Tools & Plant			5%	393.00
	Total				<u>8,253.00</u>
	Contractor's profit & overhead		20%		1,572.00
	Total Composite rate				<u>938.75</u> 939

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30-20					
No.	Description same as in item 30-19 but 3 pin 15 Amps. switch socket unit.				
	Detail of cost for 12 units				
1. Labour					
Total Labour rate	Same as in item 30-19			120.00	120
2. Material					
Switch socket 15 Amp.	12.00	No.	@	490.00	5,880.00
Plastic box	12.00	No.	@	250.00	3,000.00
					<u>8,880.00</u>
3. Tools & Plant				5%	444.00
Total					<u>9,324.00</u>
Contractor's profit & overhead				20%	1,776.00
Total Composite rate					<u>1,045.00</u> 1,045
Item No. 30-21					
R.M.	Supply and installation of 3/4" (20 mm) dia PVC concealed conduit including all accessories such as bends, elbows etc.				
	Detail of cost for 100 m.				
1. Labour					
Electrician	12.00	Hrs	@	125.00	1,500.00
Helper	12.00	Hrs	@	75.00	900.00
					<u>2,400.00</u>
Contractor's profit & overhead				20%	480.00
Total Labour rate					<u>28.80</u> 29
2. Material					
PVC conduit pipe 20 mm dia	100.00	R.M.	@	20.90	2,090.00
Accessories				30%	627.00
					<u>2,717.00</u>
3. Tools & Plant				10%	271.70
Total					<u>2,988.70</u>
Contractor's profit & overhead				20%	597.74
Total Composite rate					<u>64.66</u> 65
Item No. 30-22					
R.M.	Description same as in item 30-21 except 1" (25mm) dia PVC conduit.				
	Detail of cost for 100 m.				
1. Labour					
Total Labour rate	Same as in item 30-21			28.80	29
2. Material					
PVC conduit pipe 25 mm dia	100.00	R.M.	@	30.35	3,035.00
Accessories				30%	910.50
					<u>3,945.50</u>
3. Tools & Plant				10%	394.55
Total					<u>4,340.05</u>
Contractor's profit & overhead				20%	868.01
Total Composite rate					<u>80.88</u> 81
Item No. 30-23					
R.M.	Description same as in item 30-21 except 1.25" (30mm) dia PVC conduit.				
	Detail of cost for 100 m.				
1. Labour					
Electrician	14.00	Hrs	@	125.00	1,750.00
Helper	14.00	Hrs	@	75.00	1,050.00
					<u>2,800.00</u>
Contractor's profit & overhead				20%	560.00
Total Labour rate					<u>33.60</u> 34
2. Material					
PVC conduit pipe 30 mm dia	100.00	R.M.	@	39.80	3,980.00
Accessories				30%	1,194.00
					<u>5,174.00</u>
3. Tools & Plant				10%	517.40
Total					<u>5,691.40</u>

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	1,138.28		
	Total Composite rate		101.90		102
	Item No. 30-24				
	Description same as in item 30-21 except 1.5" (40mm) dia PVC conduit.				
	Detail of cost for 100 m.				
	1. Labour				
	Total Labour rate	Same as in item 30-23	33.60		34
	2. Material				
	PVC conduit pipe 40 mm dia	100.00	R.M. @ 56.60	5,660.00	
	Accessories		30%	1,698.00	
				7,358.00	
	3. Tools & Plant		10%	735.80	
	Total			8,093.80	
	Contractor's profit & overhead	20%	1,618.76		
	Total Composite rate		130.73		131
	Item No. 30-25				
R.M.	Description same as in item 30-21 except 2" (50mm) dia PVC conduit.				
	Detail of cost for 100 m.				
	1. Labour				
	Electrician	20.00	Hrs @ 125.00	2,500.00	
	Helper	20.00	Hrs @ 75.00	1,500.00	
				4,000.00	
	Contractor's profit & overhead	20%	800.00		
	Total Labour rate		48.00		48
	2. Material				
	PVC conduit pipe 50 mm dia	100.00	R.M. @ 75.50	7,550.00	
	Accessories		30%	2,265.00	
				9,815.00	
	3. Tools & Plant		10%	981.50	
	Total			10,796.50	
	Contractor's profit & overhead	20%	2,159.30		
	Total Composite rate		177.56		178
	Item No. 30-26				
R.M.	Supply and install 1.25" (30mm) dia G.I. pipe medium duty underground upto 36" (900mm) below finished surface for electric/communication service to the entrance to buildings.				
	Detail of cost for 10 m.				
	1. Labour				
	Excavation	Rate as in item 3-21(b)	5.40 Cu.m @ 52.20	281.88	
	Electrician	6.00	Hrs @ 125.00	750.00	
	Helper	6.00	Hrs @ 75.00	450.00	
				1,481.88	
	Contractor's profit & overhead	20%	296.38		
	Total Labour rate		177.83		178
	2. Material				
	G.I. pipe 30 mm dia.	10.00	R.M. @ 638.84	6,388.42	
	Accessories		20%	1,277.68	
				7,666.10	
	3. Tools & Plant		5%	383.30	
	Total			8,049.40	
	Contractor's profit & overhead	20%	1,609.88		
	Total Composite rate		1,143.75		1,144

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30-27					
R.M.	Description same as in item 30-26 but 2" (50 mm) dia. G.I. pipe.				
	Detail of cost for 10 m.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 26		177.85	178
	2. Material				
	G.I. pipe 50 mm dia.	10.00	R.M. @	1,029.89	10,298.88
	Accessories			20%	2,059.78
					12,358.66
	3. Tools & Plant				
	Total			5%	617.93
					12,976.59
	Contractor's profit & overhead			20%	2,595.32
	Total Composite rate				1,735.04
					1,735
Item No. 30- 28					
R.M.	Description same as in item 30-26 but 4" (100 mm) dia. G.I. pipe.				
	Detail of cost for 10 m.				
	1. Labour				
	Excavation	Rate as in item 3-21(b)	5.40	Cu.m @	52.20
	Electrician		8.00	Hrs @	125.00
	Helper		8.00	Hrs @	75.00
					1,881.88
	Contractor's profit & overhead			20%	376.38
	Total Labour rate				225.83
					226
	2. Material				
	G.I. pipe 100 mm dia.	10.00	R.M. @	2,446.85	24,468.48
	Accessories			20%	4,893.70
					29,362.18
	3. Tools & Plant				
	Total			5%	1,468.11
					30,830.28
	Contractor's profit & overhead			20%	6,166.06
	Total Composite rate				3,925.48
					3,926
Item No. 30- 29					
R.M.	Description same as in item 30-26 but 6" (150 mm) dia. G.I. pipe.				
	Detail of cost for 10 m.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 28		225.85	226
	2. Material				
	G.I. pipe 150 mm dia.	10.00	R.M. @	3,899.32	38,993.18
	Accessories			20%	7,798.64
					46,791.82
	3. Tools & Plant				
	Total			5%	2,339.59
					49,131.41
	Contractor's profit & overhead			20%	9,826.28
	Total Composite rate				6,121.62
					6,122
Item No. 30- 30					
R.M.	Description same as in item 30-26 but 3" (75 mm) dia. PVC pipe.				
	Detail of cost for 10 m.				
	1. Labour				
	Excavation	Rate as in item 3-21(b)	5.40	Cu.m @	52.20
	Electrician		6.00	Hrs @	125.00
	Helper		6.00	Hrs @	75.00
					1,481.88
	Contractor's profit & overhead			20%	296.38
	Total Labour rate				177.83
					178
	2. Material				
	PVC conduit pipe 75 mm dia	10.00	R.M. @	125.90	1,259.00
	Accessories			20%	251.80
					1,510.80
	3. Tools & Plant				
	Total			5%	75.54
					1,586.34

Unit	Description	Component Cost		Unit Rate			
		(Rs)	(Rs)	(Rs)	(Rs)		
	Contractor's profit & overhead	20%	317.27				
	Total Composite rate		368.19		368		
	Item No. 30-31						
R.M.	Description same as in item 30-26 but 4" (100 mm) dia. PVC pipe.						
	Detail of cost for 10 m.						
	1. Labour						
	Total Labour rate	Same as in item 30 - 30	177.85		178		
	2. Material						
	PVC conduit pipe 100mm dia	10.00	R.M.	@	196.25	1,962.50	
	Accessories				20%	392.50	
						2,355.00	
	3. Tools & Plant						
	Total			5%	117.75	2,472.75	
	Contractor's profit & overhead			20%	494.55	474.58	
	Total Composite rate					475	
	Item No. 30- 32						
R.M.	Supply and install 2.5 sq.mm PVC insulated single core 600/1000V.cable with copper conductor in already concealed PVC conduit.						
	Detail of cost for 100 m.						
	1. Labour						
	Electrician	4.00	Hrs	@	125.00	500.00	
	Helper	4.00	Hrs	@	75.00	300.00	
						800.00	
	Contractor's profit & overhead			20%	160.00	160.00	
	Total Labour rate					9.60	10
	2. Material						
	2.5 sq.mm single core	100.00	R.M.	@	38.70	3,870.00	
	Accessories				10%	387.00	
						4,257.00	
	3. Tools & Plant						
	Total			5%	212.85	4,469.85	
	Contractor's profit & overhead			20%	893.97	63.24	
	Total Composite rate					63	
	Item No. 30- 33						
R.M.	Description same as in item 30- 32 but 4.0 sq.mm cable.						
	1. Labour						
	Total Labour rate	Same as in item 30 - 32			9.60	10	
	2. Material						
	4 Sq.mm single core	100.00	R.M.	@	63.30	6,330.00	
	Accessories				10%	633.00	
						6,963.00	
	3. Tools & Plant						
	Total			5%	348.15	7,311.15	
	Contractor's profit & overhead			20%	1,462.23	97.33	
	Total Composite rate					97	
	Item No. 30- 34						
R.M.	Description same as in item 30- 32 but 6 sq.mm cable.						
	1. Labour						
	Total Labour rate	Same as in item 30 - 32			9.60	10	
	2. Material						
	6 Sq.mm single core	100.00	R.M.	@	94.00	9,400.00	
	Accessories				10%	940.00	
						10,340.00	
	3. Tools & Plant						
	Total			5%	517.00	10,857.00	
	Contractor's profit & overhead			20%	2,171.40	139.88	
	Total Composite rate					140	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 35					
R.M.	Description same as in item 30- 32 but 10 sq.mm cable.				
	Detail of cost for 100 m.				
	1. Labour				
	Electrician	6.00	Hrs @	125.00	750.00
	Helper	6.00	Hrs @	7500%	450.00
					1,200.00
	Contractor's profit & overhead			20%	240.00
	Total Labour rate				14.40
					14
	2. Material				
	10 Sq.mm single core	100.00	R.M. @	157.00	15,700.00
	Accessories			10%	1,570.00
					17,270.00
	3. Tools & Plant				
	Total			5%	863.50
					18,133.50
	Contractor's profit & overhead			20%	3,626.70
	Total Composite rate				232.00
					232
Item No. 30- 36					
R.M.	Description same as in item 30- 32 but 16 sq.mm cable.				
	1. Labour				
	Total Labour rate		Same as in item 30 - 35		14.40
					14
	2. Material				
	16 Sq.mm single core	100.00	R.M. @	249.00	24,900.00
	Accessories			10%	2,490.00
					27,390.00
	3. Tools & Plant				
	Total			5%	1,369.50
					28,759.50
	Contractor's profit & overhead			20%	5,751.90
	Total Composite rate				359.51
					360
Item No. 30- 37					
R.M.	Description same as in item 30- 32 but 25 sq.mm cable.				
	1. Labour				
	Electrician	8.00	Hrs @	125.00	1,000.00
	Helper	8.00	Hrs @	75.00	600.00
					1,600.00
	Contractor's profit & overhead			20%	320.00
	Total Labour rate				19.20
					19
	2. Material				
	25 Sq.mm single core	100.00	R.M. @	383.75	38,375.40
	Accessories			10%	3,837.54
					42,212.94
	3. Tools & Plant				
	Total			5%	2,110.65
					44,323.59
	Contractor's profit & overhead			20%	8,864.72
	Total Composite rate				551.08
					551
Item No. 30- 38					
R.M.	Description same as in item 30- 32 but 35 sq.mm cable.				
	1. Labour				
	Total Labour rate		Same as in item 30 - 37		19.20
					19
	2. Material				
	35 Sq.mm single core	100.00	R.M. @	537.80	53,779.60
	Accessories			10%	5,377.96
					59,157.56
	3. Tools & Plant				
	Total			5%	2,957.88
					62,115.44
	Contractor's profit & overhead			20%	12,423.09
	Total Composite rate				764.59
					765
Item No. 30- 39					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
R.M.	Description same as in item 30- 32 but 50 sq.mm cable.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 37		19.20	19
	2. Material				
	50 Sq.mm single core	100.00	R.M. @	771.21	77,121.10
	Accessories			10%	7,712.11
					<u>84,833.21</u>
	3. Tools & Plant			5%	4,241.66
	Total				<u>89,074.87</u>
	Contractor's profit & overhead			20%	17,814.97
	Total Composite rate				<u>1,088.10</u> 1,088
	Item No. 30- 40				
R.M.	Supply and install 25 sq.mm, 3.5 core, PVC insulated and sheathed multicore, 600/1000V cable with copper conductor directly clipped on surface of wall, column, beam, ceiling, etc. for power wiring.				
	Detail of cost for 100 m.				
	1. Labour				
	Electrician	24.00	Hrs @	125.00	3,000.00
	Helper	48.00	Hrs @	75.00	3,600.00
					<u>6,600.00</u>
	Contractor's profit & overhead			20%	1,320.00
	Total Labour rate				<u>79.20</u> 79
	2. Material				
	25 Sq.mm 3.5 core cable	100.00	R.M. @	1,580.00	158,000.00
	Accessories			10%	15,800.00
					<u>173,800.00</u>
	3. Tools & Plant			1%	1,738.00
	Total				<u>175,538.00</u>
	Contractor's profit & overhead			20%	35,107.60
	Total Composite rate				<u>2,185.66</u> 2,186
	Item No. 30- 41				
R.M.	Description same as in item 30- 40 but 35 sq.mm 3.5 core cable.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 40		79.20	79
	2. Material				
	35 Sq.mm 3.5 core cables	100.00	R.M. @	2,035.00	203,500.00
	Accessories			10%	20,350.00
					<u>223,850.00</u>
	3. Tools & Plant			1%	2,238.50
	Total				<u>226,088.50</u>
	Contractor's profit & overhead			20%	45,217.70
	Total Composite rate				<u>2,792.26</u> 2,792
	Item No. 30- 42				
R.M.	Description same as in item 30- 40 but 50 sq.mm 3.5 core cable.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 40		79.20	79
	2. Material				
	50 Sq.mm 3.5 core cables	100.00	R.M. @	2,750.00	275,000.00
	Accessories			10%	27,500.00
					<u>302,500.00</u>
	3. Tools & Plant			1%	3,025.00
	Total				<u>305,525.00</u>
	Contractor's profit & overhead			20%	61,105.00
	Total Composite rate				<u>3,745.50</u> 3,746
	Item No. 30- 43				
R.M.	Description same as in item 30- 40 but 70 sq.mm 3.5 core cable.				
	Detail of cost for 100 m.				

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
1. Labour						
	Electrician	36.00	Hrs @	125.00	4,500.00	
	Helper	72.00	Hrs @	75.00	5,400.00	
					9,900.00	
	Contractor's profit & overhead		20%		1,980.00	
	Total Labour rate			118.80	119	
2. Material						
	70 Sq.mm 3.5 core cables	100.00	R.M. @	3,900.00	390,000.00	
	Accessories		10%		39,000.00	
					429,000.00	
3. Tools & Plant						
	Total		1%		4,290.00	
					433,290.00	
	Contractor's profit & overhead		20%		86,658.00	
	Total Composite rate			5,318.28	5,318	
Item No. 30- 44						
R.M.	Description same as in item 30- 40 but 95 sq.mm 3.5 core cable.					
1. Labour						
	Total Labour rate	Same as in item 30 - 43			118.80	119
2. Material						
	95 Sq.mm 3.5 core cables	100.00	R.M. @	5,300.00	530,000.00	
	Accessories		10%		53,000.00	
					583,000.00	
3. Tools & Plant						
	Total		1%		5,830.00	
					588,830.00	
	Contractor's profit & overhead		20%		117,766.00	
	Total Composite rate			7,184.76	7,185	
Item No. 30- 45						
R.M.	Description same as in item 30- 40 but 120 sq.mm 3.5 core cable.					
Detail of cost for 100 m.						
1. Labour						
	Electrician	48.00	Hrs @	125.00	6,000.00	
	Helper	96.00	Hrs @	75.00	7,200.00	
					13,200.00	
	Contractor's profit & overhead		20%		2,640.00	
	Total Labour rate			158.40	158	
2. Material						
	95 Sq.mm 3.5 core cables	100.00	R.M. @	5,300.00	530,000.00	
	Accessories		10%		53,000.00	
					583,000.00	
3. Tools & Plant						
	Total		1%		5,830.00	
					588,830.00	
	Contractor's profit & overhead		20%		117,766.00	
	Total Composite rate			7,224.36	7,224	

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
Item No. 30- 46							
R.M.	Supply and installation of 14 SWG (3.2 sq.mm) solid bare hard drawn electrolytic copper wire as earth continuity conductor in already installed/laid conduit or underground pipe.						
Detail of cost for 100 m.							
1. Labour							
Electrician		4.00	Hrs	@	125.00	500.00	
Helper		4.00	Hrs	@	75.00	300.00	
					<u>800.00</u>		
Contractor's profit & overhead					20%	160.00	
Total Labour rate						<u>9.60</u>	10
2. Material							
Electrolytic copper wire	14 SWG	3.13	Kg.	@	830.00	2,597.90	
Manufacturing cost					30%	779.37	
Accessories + wastage					5%	129.90	
					<u>3,507.17</u>		
3. Tools & Plant					5%	175.36	
Total						<u>3,682.52</u>	
Contractor's profit & overhead					20%	736.50	
Total Composite rate						<u>53.79</u>	54
Item No. 30- 47							
R.M.	Description same as in item 30- 46 but with 12 SWG (5.4 sq.mm) ECC.						
1. Labour							
Total Labour rate	Same as in item 30 - 46					9.60	10
2. Material							
Electrolytic copper wire	12 SWG	4.90	Kg.	@	830.00	4,067.00	
Manufacturing cost					30%	1,220.10	
Accessories + wastage					5%	203.35	
					<u>5,490.45</u>		
3. Tools & Plant					5%	274.52	
Total						<u>5,764.97</u>	
Contractor's profit & overhead					20%	1,152.99	
Total Composite rate						<u>78.78</u>	79
Item No. 30- 48							
R.M.	Description same as in item 30- 46 but with 10 SWG (8.7 sq.mm) ECC.						
1. Labour							
Total Labour rate	Same as in item 30 - 46					9.60	10
2. Material							
Electrolytic copper wire	10 SWG	8.38	Kg.	@	830.00	6,955.40	
Manufacturing cost					30%	2,086.62	
Accessories + wastage					5%	347.77	
					<u>9,389.79</u>		
3. Tools & Plant					5%	469.49	
Total						<u>9,859.28</u>	
Contractor's profit & overhead					20%	1,971.86	
Total Composite rate						<u>127.91</u>	128
Item No. 30- 49							
R.M.	Description same as in item 30- 46 but with 8 SWG (13 sq.mm) ECC.						
Detail of cost for 100 m.							
1. Labour							
Electrician		6.00	Hrs	@	125.00	750.00	
Helper		6.00	Hrs	@	75.00	450.00	
					<u>1,200.00</u>		
Contractor's profit & overhead					20%	240.00	
Total Labour rate						<u>14.40</u>	14
2. Material							
Electrolytic copper wire	8 SWG	12.48	Kg.	@	830.00	10,358.40	
Manufacturing cost					30%	3,107.52	
Accessories + wastage					5%	517.92	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			13,983.84		
	3. Tools & Plant	5%	699.19		
	Total		14,683.03		
	Contractor's profit & overhead	20%	2,936.61		
	Total Composite rate		190.60		191
	Item No. 30- 50				
R.M.	Description same as in item 30- 46 but with 6 SWG (19 sq.mm) ECC.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 49	14.40		14
	2. Material				
	Electrolytic copper wire	6 SWG	17.00	Kg. @	830.00
	Manufacturing cost				30%
	Accessories + wastage				5%
					14,110.00
					4,233.00
					705.50
					19,048.50
	3. Tools & Plant	5%	952.43		
	Total		20,000.93		
	Contractor's profit & overhead	20%	4,000.19		
	Total Composite rate		254.41		254
	Item No. 30- 51				
R.M.	Description same as in item 30- 46 but with 4 SWG (27 sq.mm) ECC.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 49	14.40		14
	2. Material				
	Electrolytic copper wire	4 SWG	24.30	Kg. @	830.00
	Manufacturing cost				30%
	Accessories + wastage				5%
					20,169.00
					6,050.70
					1,008.45
					27,228.15
	3. Tools & Plant	5%	1,361.41		
	Total		28,589.56		
	Contractor's profit & overhead	20%	5,717.91		
	Total Composite rate		357.47		357
	Item No. 30- 52				
R.M.	Description same as in item 30- 46 but with 2 SWG (38.6 sq.mm) ECC.				
	Detail of cost for 100 m.				
	1. Labour				
	Electrician	8.00	Hrs	@	125.00
	Helper	8.00	Hrs	@	75.00
					1,000.00
					600.00
					1,600.00
	Contractor's profit & overhead	20%	320.00		
	Total Labour rate		19.20		19
	2. Material				
	Electrolytic copper wire	2 SWG	34.50	Kg. @	830.00
	Manufacturing cost				30%
	Accessories + wastage				5%
					28,635.00
					8,590.50
					1,431.75
					38,657.25
	3. Tools & Plant	5%	1,932.86		
	Total		40,590.11		
	Contractor's profit & overhead	20%	8,118.02		
	Total Composite rate		506.28		506

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 53					
R.M.	Description same as in item 30- 46 but with 1/0 SWG (53 sq.mm) ECC.				
1. Labour					
Total Labour rate	Same as in item 30 - 52			19.20	19
2. Material					
Electrolytic copper wire	1/0 SWG	47.29	Kg. @	830.00	39,250.70
Manufacturing cost				30%	11,775.21
Accessories + wastage				5%	1,962.54
					<u>52,988.45</u>
3. Tools & Plant					
Total				5%	2,649.42
Contractor's profit & overhead				20%	55,637.87
Total Composite rate					<u>686.85</u> 687
Item No. 30- 54					
R.M.	Description same as in item 30- 46 but with 2/0 SWG (61 sq.mm) ECC.				
1. Labour					
Total Labour rate	Same as in item 30 - 52			19.20	19
2. Material					
Electrolytic copper wire	2/0 SWG	54.55	Kg. @	830.00	45,276.50
Manufacturing cost				30%	13,582.95
Accessories + wastage				5%	2,263.83
					<u>61,123.28</u>
3. Tools & Plant					
Total				5%	3,056.16
Contractor's profit & overhead				20%	64,179.44
Total Composite rate					<u>789.35</u> 789
Item No. 30- 55					
R.M.	Description same as in item 30- 46 but with 3/0 SWG (70 sq.mm) ECC.				
1. Labour					
Total Labour rate	Same as in item 30 - 52			19.20	19
2. Material					
Electrolytic copper wire	3/0 SWG	62.34	Kg. @	830.00	51,742.20
Manufacturing cost				30%	15,522.66
Accessories + wastage				5%	2,587.11
					<u>69,851.97</u>
3. Tools & Plant					
Total				5%	3,492.60
Contractor's profit & overhead				20%	73,344.57
Total Composite rate					<u>899.33</u> 899
No.	Supply and install 15 Amp, triple pole, 415 volts metal clad load breaker switch on surface of walls.				
1. Labour					
Electrician	1.00	Hrs	@	125.00	125.00
Helper	1.00	Hrs	@	75.00	75.00
					<u>200.00</u>
Contractor's profit & overhead				20%	40.00
Total Labour rate					<u>240.00</u> 240
2. Material					
Load break switch, 15 Amp.	1.00	No.	@	1,250.00	1,250.00
Accessories				5%	62.50
					<u>1,312.50</u>
3. Tools & Plant					
Total				1%	13.13
Contractor's profit & overhead				20%	1,325.63
Total Composite rate					<u>265.13</u>
					<u>1,830.75</u> 1,831
Item No. 30- 57					
R.M.	Description same as in item 30- 56 but with 30 Amps. switch.				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Total Labour rate	Same as in item 30 - 56		240.00		240
2. Material					
Load break switch, 30 Amp.	1.00	No.	@	2,000.00	2,000.00
Accessories				5%	100.00
					<u>2,100.00</u>
3. Tools & Plant					
Total				1%	21.00
					<u>2,121.00</u>
Contractor's profit & overhead				20%	424.20
Total Composite rate					<u>2,785.20</u> 2,785
Item No. 30- 58					
R.M. Description same as in item 30- 56 but with 60 Amps. Switch.					
1. Labour					
Total Labour rate	Same as in item 30 - 56			240.00	240
2. Material					
Load break switch, 60 Amp.	1.00	No.	@	3,500.00	3,500.00
Accessories				5%	175.00
					<u>3,675.00</u>
3. Tools & Plant					
Total				1%	36.75
					<u>3,711.75</u>
Contractor's profit & overhead				20%	742.35
Total Composite rate					<u>4,694.10</u> 4,694
Item No.30- 59					
No. Supply and install surface mounted flourescent light fixture with a 40W. Lamp TMS-140 Philips type or approved equivalent complete with ballast, power factor improvement capacitor, starter etc. and including all installation materials.					
Detail of cost for 12 Nos.					
1. Labour					
Electrician	8.00	Hrs	@	125.00	1,000.00
Helper	8.00	Hrs	@	75.00	600.00
					<u>1,600.00</u>
Contractor's profit & overhead				20%	320.00
Total Labour rate					<u>160.00</u> 160
2. Material					
Flourescent tube light 40W, Single	12.00	No.	@	1,300.00	15,600.00
3. Tools & Plant					
Total				1%	156.00
					<u>15,756.00</u>
Contractor's profit & overhead				20%	3,151.20
Total Composite rate					<u>1,735.60</u> 1,736
Item No. 30- 60					
No. Description same as in item 30- 59 but with 2 Nos. 40W lamps, Philips TMS-240 or equivalent make					
1. Labour					
Total Labour rate	Same as in item 30 - 59			160.00	160
2. Material					
Flourescent tube light 40W, Double	12.00	No.	@	1,750.00	21,000.00
3. Tools & Plant					
Total				1%	210.00
					<u>21,210.00</u>
Contractor's profit & overhead				20%	4,242.00
Total Composite rate					<u>2,281.00</u> 2,281

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 61					
No.	Description same as in item 30- 59 but with industrial reflector and 1 No. 40W lamps, Philips GKD-140 or equivalent make				
1. Labour					
Total Labour rate	Same as in item 30 - 59			160.00	160
2. Material					
Flour. tube light 40W, Single with Ind. reflector	12.00	No.	@	3,500.00	42,000.00
3. Tools & Plant				1%	420.00
Total					42,420.00
Contractor's profit & overhead				20%	8,484.00
Total Composite rate					4,402
Item No. 30- 62					
No.	Description same as in item 30- 59 but with industrial reflector and 2 Nos. 40W lamps, Philips GKD-240 or equivalent make				
1. Labour					
Total Labour rate	Same as in item 30 - 59			160.00	160
2. Material					
Flour. tube light 40W, Double with Ind. reflector	12.00	No.	@	4,800.00	57,600.00
3. Tools & Plant				1%	576.00
Total					58,176.00
Contractor's profit & overhead				20%	11,635.20
Total Composite rate					5,977.60
Item No. 30- 63					
No.	Description same as in item 30- 59 but with acrylic plastic cover or louvers and one No. 40W. Lamps, Philips type GMS-176 or approved equivalent.				
Detail of cost for 12 Nos.					
1. Labour					
Total Labour rate	Same as in item 30 - 59			160.00	160
2. Material					
Flourescent tube light 40W with louvers -Single	12.00	No.	@	4,500.00	54,000.00
3. Tools & Plant				1%	540.00
Total					54,540.00
Contractor's profit & overhead				20%	10,908.00
Total Composite rate					5,614.00
Item No. 30- 64					
No.	Description same as in item 30- 59 but with acrylic plastic cover or louvers and two Nos. 40W. Lamps, Philips type GMS-276 or approved equivalent.				
Detail of cost for 12 Nos.					
1. Labour					
Total Labour rate	Same as in item 30 - 59			160.00	160
2. Material					
Flour. tube light 40W with louvers - Double	12.00	No.	@	5,500.00	66,000.00
3. Tools & Plant				1%	660.00
Total					66,660.00
Contractor's profit & overhead				20%	13,332.00
Total Composite rate					6,826
Item No. 30- 65					
No.	Description same as in item 30- 59 but with acrylic plastic cover or louvers and four Nos. 20W. Lamps, Philips type TCS-420L or approved equivalent.				
Detail of cost for 12 Nos.					
1. Labour					
Total Labour rate	Same as in item 30 - 59			160.00	160
2. Material					
Tube light 4 Nos. - 20W lamps with louvers	12.00	No.	@	4,500.00	54,000.00
3. Tools & Plant				1%	540.00
Total					54,540.00
Contractor's profit & overhead				20%	10,908.00
Total Composite rate					5,614.00

Unit	Description	Component Cost	Unit	Rate
		(Rs)		(Rs)

Item No. 30- 66

No. Description same as in item 30- 59 but with acrylic plastic cover or louvers and six Nos. 20W. lamps, Philips type GMS-276 or approved equivalent.

Detail of cost for 12 Nos.

1. Labour

Total Labour rate	Same as in item 30 - 59			160.00	160
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2. Material

Tube light 6 Nos. - 20W lamps with louvers	12.00	No.	@	6,500.00	78,000.00
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3. Tools & Plant				1%	780.00
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Total					78,780.00
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Contractor's profit & overhead				20%	15,756.00
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Total Composite rate					8,038.00	8,038
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Item No. 30- 67

No. Description same as in item 30- 59 but with batten and one No. 40W. Lamps, Philips type P-140 or approved equivalent.

Detail of cost for 12 Nos.

1. Labour

Total Labour rate	Same as in item 30 - 59			160.00	160
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2. Material

Flourescent tube light 40W with batten	12.00	No.	@	1,300.00	15,600.00
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3. Tools & Plant				1%	156.00
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Total					15,756.00
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Contractor's profit & overhead				20%	3,151.20
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Total Composite rate					1,735.60	1,736
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Item No. 30- 68

No. Description same as in item 30- 59 but with batten and one No. 20W. Lamps, Philips type P-120 or approved equivalent.

Detail of cost for 12 Nos.

1. Labour

Total Labour rate	Same as in item 30 - 59			160.00	160
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2. Material

Flourescent tube light 20W with batten	12.00	No.	@	950.00	11,400.00
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3. Tools & Plant				1%	114.00
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Total					11,514.00
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Contractor's profit & overhead				20%	2,302.80
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Total Composite rate					1,311.40	1,311
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Item No. 30- 69

No. Supply and install recessed mounting flourescent light fixture with 2Nos. 40W lamps acrylic plastic cover or louvers, Philips type TBS 300E /240L or approved equivalent, complete with ballast, power factor improvement capacitor, starter etc. including all installation material.

Detail of cost for 12 Nos.

1. Labour

Total Labour rate	Same as in item 30 - 59			160.00	160
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2. Material

T. light 40W recessed mounted, plastic louver	12.00	No.	@	4,000.00	48,000.00
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3. Tools & Plant				1%	480.00
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Total					48,480.00
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Contractor's profit & overhead				20%	9,696.00
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Total Composite rate					5,008.00	5,008
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Item No. 30- 70

No. Description same as item 30- 69 but with metal louvers and four Nos. 20W lamps - Philips type TBS 300 / 240 MI or approved equivalent.

Detail of cost for 12 Nos.

1. Labour

Electrician	10.00	Hrs	@	125.00	1,250.00
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Helper	10.00	Hrs	@	75.00	750.00
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Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
			2,000.00		
	Contractor's profit & overhead	20%	400.00		
	Total Labour rate		200.00		200
	2. Material				
	T. light 4 - 20W recessed mounted, metal louver	12.00	No.	@	4,800.00
	3. Tools & Plant				1%
	Total				57,600.00
					576.00
	Total				58,176.00
	Contractor's profit & overhead	20%			11,635.20
	Total Composite rate				6,017.60
					6,018
	Item No. 30- 71				
No.	Description same as item 30- 69 but with four Nos. 40W lamps, Philips type TBS 300 / 240 MI or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 70			200.00
					200
	2. Material				
	T. light 40W recessed mounted, plastic louver	12.00	No.	@	4,000.00
	3. Tools & Plant				1%
	Total				48,000.00
					480.00
	Total				48,480.00
	Contractor's profit & overhead	20%			9,696.00
	Total Composite rate				5,048.00
					5,048
	Item No. 30- 72				
No.	Description same as item 30- 69 but six Nos. 20W lamps - Philips type TFC-620 or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 70			200.00
					200
	2. Material				
	Tube light 6 - 20W lamp recessed mounted	12.00	No.	@	5,800.00
	3. Tools & Plant				1%
	Total				69,600.00
					696.00
	Total				70,296.00
	Contractor's profit & overhead	20%			14,059.20
	Total Composite rate				7,229.60
					7,230
	Item No. 30- 73				
No.	Supply and install weather proof incandescent light fixture comprising die-cast aluminium body with front glass cover fixed to the body by means of stainless steel screws and neoprene gasket, G.I. wire guard, 1 No 100W lamp, including all installation material Philips type or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 59			160.00
					160
	2. Material				
	Light fixture - weather proof	12.00	No.	@	6,500.00
	Lamp	1.00	No.	@	45.00
	Total				78,000.00
					45.00
	Total				78,045.00
	Contractor's profit & overhead	20%			15,609.00
	Total Composite rate				7,964.50
					7,965
	Item No. 30- 74				
No.	Supply and install ceiling mounted incandescent light fixture with glass cover and 2 - 60W lamps, Philips type NCD-533 or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 59			160.00
					160
	2. Material				
	Light fixture - ceiling mounted	12.00	No.	@	3,800.00
	Lamp	1.00	No.	@	45.00
	Total				45,600.00
					45.00
	Total				45,645.00
	Contractor's profit & overhead	20%			9,129.00
	Total Composite rate				9,129.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Composite rate		4,724.50		4,725
	Item No. 30- 75				
No.	Supply and install wall mounted incandescent light fixture with 60W lamp, Philips type NBRS-511 or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Electrician	6.00	Hrs @	125.00	750.00
	Helper	6.00	Hrs @	75.00	450.00
					<u>1,200.00</u>
	Contractor's profit & overhead		20%		240.00
	Total Labour rate			120.00	120
	2. Material				
	Light fixture - wall mounted, incandescent lamp	12.00	No. @	1,650.00	19,800.00
	Lamp	1.00	No. @	45.00	45.00
	Total				<u>19,845.00</u>
	Contractor's profit & overhead		20%		3,969.00
	Total Composite rate			2,104.50	2,105
	Item No. 30- 76				
No.	Description same as in item 30- 75 but ceiling mounted, Philips type NBR-511 or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 75		120.00	120
	2. Material				
	Light fixture - ceiling mounted, incandescent lamp	12.00	No. @	2,150.00	25,800.00
	Lamp	1.00	No. @	45.00	45.00
	Total				<u>25,845.00</u>
	Contractor's profit & overhead		20%		5,169.00
	Total Composite rate			2,704.50	2,705
	Item No. 30- 77				
No.	Supply and install recessed mounted incandescent light fixture with 100W lamp including all installation materials, Philips type DDN-24 or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 75		120.00	120
	2. Material				
	Light fixture - recessed mounted	12.00	No. @	4,500.00	54,000.00
	Lamp	1.00	No. @	45.00	45.00
	Total				<u>54,045.00</u>
	Contractor's profit & overhead		20%		10,809.00
	Total Composite rate			5,524.50	5,525

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 78					
No.	Supply and install recessed mounted light fixture with 150W pressed glass lamp, including all installation materials - Philips DSS-10 type or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 75		120.00	120
	2. Material				
	Light fixture - recessed mounted with 150W lamp	12.00	No. @	4,200.00	50,400.00
	Contractor's profit & overhead			20%	10,080.00
	Total Composite rate				5,160.00
Item No. 30- 79					
No.	Supply and install high bay mercury vapour light fixture with 400W. HPLN lamp ballast, with ballast housing, pipe fixing arrangement etc. Philips HDK-463 type or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Electrician	18.00	Hrs @	125.00	2,250.00
	Helper	18.00	Hrs @	75.00	1,350.00
					3,600.00
	Contractor's profit & overhead			20%	720.00
	Total Labour rate				360.00
	2. Material				
	Light fixture - High bay mercury vapour	12.00	No. @	15,500.00	186,000.00
	Contractor's profit & overhead			20%	37,200.00
	Total Composite rate				18,960.00
Item No. 30- 80					
No.	Supply and install mercury vapour light fixture Philips HRC-511 type with 250W. mercury vapour lamp, polyester filled ballast on already installed tubular pole.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 79		360.00	360
	2. Material				
	Light fixture - Mercury vapour	12.00	No. @	16,000.00	192,000.00
	Contractor's profit & overhead			20%	38,400.00
	Total Composite rate				19,560.00
Item No. 30- 81					
No.	Description same as item 30-80 but with 250W son & Ignitor Philips HRC-511 type or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 79		360.00	360
	2. Material				
	Light fixture - Mercury vapour with 250W lamp	12.00	No. @	18,000.00	216,000.00
	Contractor's profit & overhead			20%	43,200.00
	Total Composite rate				21,960.00
Item No. 30- 82					
No.	Supply and install mercury vapour light fixture with 125W PHL-N lamp. ballast starter, power factor improvement capacitor including suspension rod with fixing arrangement, accessories etc, Philips HRP 38 type or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 79		360.00	360
	2. Material				
	Light fixture - Mercury vapour with 125W lamp	12.00	No. @	14,200.00	170,400.00
	Contractor's profit & overhead			20%	34,080.00
	Total Composite rate				17,400.00

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
Item No. 30- 83					
No.	Description same as in item 30- 82 but with HPLN-80W lamp Philips HRC-510/80W type or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 79		360.00	360
	2. Material				
	Light fixture - Mercury vapour with 80W lamp	12.00	No. @	12,500.00	150,000.00
	Contractor's profit & overhead			20%	30,000.00
	Total Composite rate			15,360.00	15,360
Item No. 30- 84					
No.	Supply and install 100W wall mounted emergency lighting unit with 2 lamps, Ni-Cd battery, battery charger unit and wall mounting bracket, Presto-beam, Model st-v				
	Detail of cost for 12 Nos.				
	1. Labour				
	Electrician	24.00	Hrs @	125.00	3,000.00
	Helper	24.00	Hrs @	75.00	1,800.00
					4,800.00
	Contractor's profit & overhead			20%	960.00
	Total Labour rate			480.00	480
	2. Material				
	Light fixture - Emergency light unit	12.00	No. @	35,000.00	420,000.00
	Contractor's profit & overhead			20%	84,000.00
	Total Composite rate			42,480.00	42,480
Item No. 30- 85					
No.	Supply and install wall mounted weather proof flood light fixture with 250W,HPL-N mercury vapour lamp, ballast starter, power factor improvement capacitor, including accessories, installation materials. Philips H/SVF-10 type or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 79		360.00	360
	2. Material				
	Light fixture - Flood light weather proof	12.00	No. @	17,000.00	204,000.00
	Contractor's profit & overhead			20%	40,800.00
	Total Composite rate			20,760.00	20,760
Item No. 30- 86					
No.	Description same as in item 30- 85 but with 400W. HPL-N lamp Philips H/SVF-10 type or approved equivalent.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 79		360.00	360
	2. Material				
	Light fixture - Flood light weather proof	12.00	No. @	9,500.00	114,000.00
	Contractor's profit & overhead			20%	22,800.00
	Total Composite rate			11,760.00	11,760

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 87					
No.	Supply and install 56" (1.42 m) sweep ceiling fan with fan hook and dimmer complete with all accessories.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 79		360.00	360
	2. Material				
	Electric fan 56" sweep	12.00	No. @	3,500.00	42,000.00
	Contractor's profit & overhead			20%	8,400.00
	Total Composite rate				4,560
Item No. 30- 88					
No.	Description same as item 30- 87 but with 48" sweep ceiling fan.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30 - 79		360.00	360
	2. Material				
	Electric fan 48" sweep	12.00	No. @	2,750.00	33,000.00
	Contractor's profit & overhead			20%	6,600.00
	Total Composite rate				3,660
Item No. 30- 89					
No.	a) Rewinding of 56" and 48" sweep ceiling fan.				
	1. Labour				
	Electrician	6.00	Hrs @	125.00	750.00
	Contractor's profit & overhead			20%	150.00
	Total Labour rate				900
	b) Fixing of ceiling fan to ceiling				
	1. Labour				
	Electrician	1.50	Hrs @	125.00	187.50
	Helper	1.50	Hrs @	75.00	112.50
					<u>300.00</u>
	Contractor's profit & overhead			20%	60.00
	Total Labour rate				360.00
Item No. 30- 90					
No.	Supply and install earth connecting point of 10"x 2"x 1/4" (255mm x 50mm x 6mm) size of tinned copper bar, including brass/tinned copper bolts, nuts and washers.				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					<u>200.00</u>
	Contractor's profit & overhead			20%	40.00
	Total Labour rate				240.00
	2. Material				
	Copper wire/plate	0.70	Kg. @	480.00	336.00
	Contractor's profit & overhead			20%	67.20
	Total Composite rate				643.20

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 91					
Job	Supply and install pair of earth electrode each comprising 24"x12" (600mmx 3mm) thick copper plate buried 13 ft. (4m) deep underground in upright position in a pit and surrounded by mixture of salt and charcoal (1:3), 12" (300mm) min dia around the plate. The job also includes providing and fixing all accessories such as nuts, bolts, washers, 2x3/0 SWG (2x70mm) copper conductor earthing lead.				
Material					
Wt. of copper plates	2 x 9.66 kg.	19.32	kg.		
3/0 SWG copper wire	0.6236 x 32 m.	19.96	kg.		
		39.28	kg.		
1. Labour					
Excavation	Rate as in item 3-21(b)	12.00	Cu.m @	207.38	2,488.50
Electrician		8.00	Hrs @	125.00	1,000.00
Helper		8.00	Hrs @	75.00	600.00
					<u>4,088.50</u>
Contractor's profit & overhead				20%	817.70
Total Labour rate					<u>4,906.20</u> 4,906
2. Material					
Copper wire/plate		39.28	Kg. @	480.00	18,852.10
Manufacturing cost				0.30	5,655.63
Brass bolts 30 mm		8.00	No. @	110.00	880.00
G.I. pipe 50 mm dia.		8.00	R.M. @	1,029.89	8,239.10
Salt & Charcoal				35%	11,769.39
					<u>45,396.22</u>
3. Tools & Plant				2%	907.92
Total					<u>46,304.14</u>
Contractor's profit & overhead				20%	9,260.83
Total Composite rate					<u>60,471.17</u> 60,471
Item No. 30- 92					
Job	Supply and install pair of earth electrode comprising 13 ft (4m) long 2" (50mm) dia G.I. pipe having 3/8" (10mm) dia holes at 20" (500mm) c/c all along the length of pipe burie 15ft (4.5m) underground in upright position including all accessories for complete installation such as nuts bolts, washers 2x3/0 SWG copper conductor earthing lead complete in all respect.				
Material					
3/0 SWG copper wire	0.67234 x 16 m.	10.76	kg.		
1. Labour					
Electrician		8.00	Hrs @	125.00	1,000.00
Helper		16.00	Hrs @	75.00	1,200.00
					<u>2,200.00</u>
Contractor's profit & overhead				20%	440.00
Total Labour rate					<u>2,640.00</u> 2,640
2. Material					
Copper wire/plate		10.76	Kg. @	480.00	5,163.57
Manufacturing cost				30%	1,549.07
Brass bolts 30 mm		4.00	No. @	110.00	440.00
Clamps, bolts & nuts		2.00	No. @	100.00	200.00
G.I. pipe 50 mm dia.		8.00	R.M. @	1,029.89	8,239.10
					<u>15,591.75</u>
3. Tools & Plant				3%	467.75
Total					<u>16,059.50</u>
Contractor's profit & overhead				20%	3,211.90
Total Composite rate					<u>21,911.40</u> 21,911

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 93					
R.M.	Supply and install 12" x 1/8" (25mm x 3mm) copper strip for lighting protection including all installation accessories such as copper clamps nuts, bolts, washers, testing terminal etc. on surface of roof, wall etc.				
	Detail of cost for 100 m.				
	1. Labour				
	Electrician	12.00	Hrs @	125.00	1,500.00
	Helper	12.00	Hrs @	75.00	900.00
					2,400.00
	Contractor's profit & overhead		20%		480.00
	Total Labour rate				28.80
					29
	2. Material				
	Copper wire/plate	76.00	Kg. @	480.00	36,480.00
	Accessories		20%		7,296.00
					43,776.00
	3. Tools & Plant				
	Total		2%		656.64
					44,432.64
	Contractor's profit & overhead		20%		8,886.53
	Total Composite rate				561.99
					562
Item No. 30- 94					
R.M.	Description same as in item 30- 93 but underground at a depth of 24" (600mm) from ground level.				
	Total Labour rate	5% extra effort on item 30-93			30.24
					30
	Total Composite rate	5% extra effort on item 30-93			590.10
					590
Item No. 30- 95					
Job	Supply and install 8 ft (2.5 m) long 5/8" (16mm) dia hard-drawn copper rod earth electrode underground for lighting protection including all accessories such as nuts, bolts, fixing clamps etc. The earth electrode shall be installed such that its top is 14" (350mm) below finished ground level.				
	1. Labour				
	Electrician	4.00	Hrs @	125.00	500.00
	Helper	4.00	Hrs @	75.00	300.00
					800.00
	Contractor's profit & overhead		20%		160.00
	Total Labour rate				960.00
					960
	2. Material				
	Copper wire/plate	4.50	Kg. @	480.00	2,160.00
	Manufacturing cost		30%		648.00
	Clamps, bolts & nuts		15%		324.00
					3,132.00
	3. Tools & Plant				
	Total		10%		313.20
					3,445.20
	Contractor's profit & overhead		20%		689.04
	Total Composite rate				5,094.24
					5,094
Item No. 30- 96					
Job	Supply and install 6.5 ft (2 m) long 3/8" (10mm) dia vertical air termination hard-drawn copper rod vertically on building top, including all fixing accessories such as copper flanges, mild steel anchor bolts, copper clamps etc.				
	1. Labour				
	Total Labour rate	Same as in item 30-95			960.00
					960
	2. Material				
	Copper wire/plate	3.16	Kg. @	480.00	1,516.80
	Manufacturing cost		30%		455.04
	Clamps, bolts & nuts		25%		379.20
					2,351.04
	3. Tools, plant & testing				
	Total		10%		235.10
					2,586.14
	Contractor's profit & overhead		20%		517.23
	Total Composite rate				4,063.37
					4,063

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30- 97					
Job	Construction of 20" x 20" (500mm x 500 mm) square inspection chamber for earth electrodes including medium duty C.I. cover and all associated civil works.				
Materials					
Concrete 1:2:4	0.43	Cu.m.			
1. Labour					
For concrete	Same as in item 5-13(a)	0.43	Cu.m.	@	1,292.38
For plaster	Same as in item 15-3	1.30	Sq.m.	@	1,271.88
For shuttering					20%
					442.35
					2,654.09
Contractor's profit & overhead				20%	530.82
Total Labour rate					3,184.91
					3,185
2. Material					
Concrete 1:2:4	Rate as per item 5-8c	0.43	Cu.m.	@	4,971.92
Plastering				10%	214.79
Shuttering				5%	107.39
C.I. cover and frame 24" size medium duty	1.00	No.	@	1,500.00	1,500.00
					3,970.05
Contractor's profit & overhead				20%	794.01
Total Composite rate					7,948.97
					7,949
Item No. 30- 98					
No.	Supply and install wall mounted 4 ways, 5 Amp, flush mounting type telephone rosette including plastic box and face plate.				
Detail of Cost for 12 Nos.					
1. Labour					
Electrician	2.00	Hrs	@	125.00	250.00
Helper	2.00	Hrs	@	75.00	150.00
					400.00
Contractor's profit & overhead				20%	80.00
Total Labour rate					40.00
					40
2. Material					
Telephone rosette	12.00	No.	@	66.00	792.00
Electric plastic box with plate single hole	12.00	No.	@	105.00	1,260.00
					2,052.00
Contractor's profit & overhead				20%	410.40
Total Composite rate					245.20
					245
Item No. 30- 99					
No.	Supply and install recessed type telephone distribution box suitable for 20 pair cable including appropriate size 16 SWG sheet steel box with hinged, latched and lockable cover.				
1. Labour					
Electrician	8.00	Hrs	@	125.00	1,000.00
Helper	8.00	Hrs	@	75.00	600.00
					1,600.00
Contractor's profit & overhead				20%	320.00
Total Labour rate					1,920.00
					1,920
2. Material					
Telephone terminal strip 20 pair	2.00	No.	@	451.00	902.00
Telephone box 20 pair	1.00	No.	@	770.00	770.00
Accessories				3%	50.16
					1,722.16
3. Tools, plant & testing					
Total				3%	51.66
Contractor's profit & overhead				20%	354.76
Total Composite rate					4,048.59
					4,049
Item No. 30- 100					
No.	Description same as in item 30- 99 but with 30 pair telephone distribution box.				
1. Labour					
Total Labour rate	Same as in item 30 - 99				1,920.00
					1,920
2. Material					
Telephone terminal strip 30 pair	2.00	No.	@	880.00	1,760.00
Telephone box 30 to 60 pair	1.00	No.	@	2,640.00	2,640.00

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	Accessories		3%		132.00	
					<u>4,532.00</u>	
	3. Tools, plant & testing		3%		135.96	
	Total				<u>4,667.96</u>	
	Contractor's profit & overhead		20%		933.59	
	Total Composite rate				<u>7,521.55</u>	7,522
Item No. 30- 101						
No.	Description same as in item 30- 99 but with 40 pair telephone distribution box.					
	1. Labour					
	Total Labour rate	Same as in item 30 - 99			1,920.00	1,920
	2. Material					
	Telephone terminal strip 40 pair	2.00	No.	@	1,199.00	2,398.00
	Telephone box 30 to 60 pair	1.00	No.	@	2,640.00	2,640.00
	Accessories		3%		151.14	
					<u>5,189.14</u>	
	3. Tools, plant & testing		3%		155.67	
	Total				<u>5,344.81</u>	
	Contractor's profit & overhead		20%		1,068.96	
	Total Composite rate				<u>8,333.78</u>	8,334
Item No. 30- 102						
No.	Description same as in item 30- 99 but with 60 pair telephone distribution box.					
	1. Labour					
	Total Labour rate	Same as in item 30 - 99			1,920.00	1,920
	2. Material					
	Telephone terminal strip 60 pair	2.00	No.	@	1,760.00	3,520.00
	Telephone box 30 to 60 pair	1.00	No.	@	2,640.00	2,640.00
	Accessories		3%		184.80	
					<u>6,344.80</u>	
	3. Tools, plant & testing		3%		190.34	
	Total				<u>6,535.14</u>	
	Contractor's profit & overhead		20%		1,307.03	
	Total Composite rate				<u>9,762.17</u>	9,762
Item No. 30- 103						
No.	Description same as in item 30- 99 but with 100 pair telephone distribution box.					
	1. Labour					
	Total Labour rate	Same as in item 30 - 99			1,920.00	1,920
	2. Material					
	Telephone terminal strip 100 pair	2.00	No.	@	2,530.00	5,060.00
	Telephone box 100 pair	1.00	No.	@	2,640.00	2,640.00
	Accessories		3%		231.00	
					<u>7,931.00</u>	
	3. Tools, plant & testing		3%		237.93	
	Total				<u>8,168.93</u>	
	Contractor's profit & overhead		20%		1,633.79	
	Total Composite rate				<u>11,722.72</u>	11,723

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
Item No. 30- 104						
R.M.	Provide, install, connect, test and commission 3 phase 500V, 800 Amps, L.T.. Bus-tie duct for connection between transformer L.T and L.T. switch board. Bus-duct shall comprise rectangular copper conductor insulated and enclosed in corrosion resistant sheet steel enclosure complete with all installation, supporting materials and accessories.					
	Detail of cost for 10 m.					
	1. Labour					
	Electrician	16.00	Hrs @	125.00	2,000.00	
	Fitter	16.00	Hrs @	87.50	1,400.00	
	Helper	64.00	Hrs @	75.00	4,800.00	
					<u>8,200.00</u>	
	Contractor's profit & overhead		20%		1,640.00	
	Total Labour rate				<u>984.00</u> 984	
	2. Material					
	Electric L.T. bus tie duct 800 Amp.	10.00	R.M @	20,000.00	200,000	
	Accessories			10%	20,000	
					<u>220,000</u>	
	3. Tools, plant & testing			2%	4,400	
	Total				<u>224,400</u>	
	Contractor's profit & overhead		20%		44,880	
	Total Composite rate				<u>27,912</u> 27,912	
Item No. 30- 105						
R.M.	Description same as in item 30- 104 but with 1200A bus tie duct.					
	Detail of cost for 10 m.					
	1. Labour					
	Total Labour rate	Same as in item 30 - 104			984.00	984
	2. Material					
	Electric L.T. bus tie duct 1200 Amp.	10.00	R.M @	30,000.00	300,000	
	Accessories			10%	30,000	
					<u>330,000</u>	
	3. Tools, plant & testing			2%	6,600	
	Total				<u>336,600</u>	
	Contractor's profit & overhead		20%		67,320	
	Total Composite rate				<u>41,376</u> 41,376	
Item No. 30- 106						
R.M.	Description same as in item 30- 104 but with 1600A bus tie duct.					
	Detail of cost for 10 m.					
	1. Labour					
	Total Labour rate	Same as in item 30 - 104			984.00	984
	2. Material					
	Electric L.T. bus tie duct 1600 Amp.	10.00	R.M @	40,000.00	400,000	
	Accessories			10%	40,000	
					<u>440,000</u>	
	3. Tools, plant & testing			2%	8,800	
	Total				<u>448,800</u>	
	Contractor's profit & overhead		20%		89,760	
	Total Composite rate				<u>54,840</u> 54,840	

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 30- 107

Job Supply, install, connect Ceiling Fan energy efficient model as approved and rated 3-Star by NEECA with power consumption of less than 80 W+10%

1. Labour

Electrician	2.00	Hrs	@	125.00	250
Helper	1.50	Hrs	@	75.00	113
Total					363
Contractor's profit & overhead				20%	73
Total Labour rate					435

2. Material

Three Star Rating Fan 56"	1.00	No.	@	3,850.00	3,850
Total					4,285
Contractor's profit & overhead				0.20	857
Total Composite rate					5,577

Item No. 30- 108

Job a) Supply and Install wall Mounted Split Air Conditioners inverter Energy Saver Model 1 Ton

1. Labour

Electrician	5.00	Hrs	@	125.00	625
Helper	5.00	Hrs	@	75.00	375
Total					1,000
Contractor's profit & overhead				20%	200
Total Labour rate					1,200

2. Material

Full DC Inverter 1 ton	1.00	No.	@	57000.00	57,000
Wall Bracket for Split type AC units	1.00	No.	@	1500.00	1,500
Coper Pipe for Split type AC units	4.00	RM	@	1000.00	4,000
Total					62,500
Contractor's profit & overhead				2%	1,250
Total					63,750
Contractor's profit & overhead				20%	12,750
Total Composite rate					77,700

Job b) Supply and Install wall Mounted Split Air Conditioners inverter Energy Saver Model 1.5 Ton

1. Labour

Electrician	5.00	Hrs	@	125.00	625
Helper	5.00	Hrs	@	75.00	375
Total					1,000
Contractor's profit & overhead				20%	200
Total Labour rate					1,200

2. Material

Full DC Inverter 1.5 ton	1.00	No.	@	70000.00	70,000
Wall Bracket for Split type AC units	1.00	No.	@	1500.00	1,500
Coper Pipe for Split type AC units	4.00	RM	@	1000.00	4,000
Total					75,500
Contractor's profit & overhead				2%	1,510
Total					77,010
Contractor's profit & overhead				20%	15,402
Total Composite rate					93,612

Job c) Supply and Install wall Mounted Split Air Conditioners inverter Energy Saver Model 2 Ton

1. Labour

Electrician	5.00	Hrs	@	125.00	625
Helper	5.00	Hrs	@	75.00	375
Total					1,000
Contractor's profit & overhead				20%	200

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)
	Total Labour rate	1,200	1,200
	2. Material		
	Full DC Invertor 2 ton	1.00 No. @ 155000.00	155,000
	Wall Bracket for Split type AC units	1.00 No. @ 1500.00	1,500
	Coper Pipe for Split type AC units	4.00 RM @ 1000.00	4,000
			<u>160,500</u>
	3. Tools, plant & testing	2%	3,210
	Total		<u>163,710</u>
	Contractor's profit & overhead	20%	32,742
	Total Composite rate		<u>197,652</u>
	Item No. 30- 109		197,652

Job a) Supply and Install Cabnet Type Split Air Conditioners invertor Energy Saver Model 2.5 Ton

	1. Labour				
	Electrician	10.00	Hrs	@	125.00
	Helper	10.00	Hrs	@	75.00
	Total				<u>2,000</u>
	Contractor's profit & overhead			20%	400
	Total Labour rate				<u>2,400</u>
	2. Material				
	Full DC Invertor 2.5 ton	1.00	No.	@	175000.00
	Wall Bracket for Split type AC units	1.00	No.	@	1500.00
	Coper Pipe for Split type AC units	5.00	RM	@	1000.00
					<u>181,500</u>
	3. Tools, plant & testing			2%	3,630
	Total				<u>185,130</u>
	Contractor's profit & overhead			20%	37,026
	Total Composite rate				<u>224,556</u>

Job b) Supply and Install Cabnet Type Split Air Conditioners invertor Energy Saver Model 3 Ton

	1. Labour				
	Electrician	10.00	Hrs	@	125.00
	Helper	10.00	Hrs	@	75.00
	Total				<u>2,000</u>
	Contractor's profit & overhead			20%	400
	Total Labour rate				<u>2,400</u>
	2. Material				
	Full DC Invertor 3 ton	1.00	No.	@	250000.00
	Wall Bracket for Split type AC units	1.00	No.	@	1500.00
	Coper Pipe for Split type AC units	5.00	RM	@	1000.00
					<u>256,500</u>
	3. Tools, plant & testing			2%	5,130
	Total				<u>261,630</u>
	Contractor's profit & overhead			20%	52,326
	Total Composite rate				<u>316,356</u>

Job c) Supply and Install Cabnet Type Split Air Conditioners invertor Energy Saver Model 4Ton

	1. Labour				
	Electrician	10.00	Hrs	@	125.00
	Helper	10.00	Hrs	@	75.00
	Total				<u>2,000</u>
	Contractor's profit & overhead			20%	400
	Total Labour rate				<u>2,400</u>
	2. Material				
	Full DC Invertor 4 ton	1.00	No.	@	350000.00
	Wall Bracket for Split type AC units	1.00	No.	@	1500.00
	Coper Pipe for Split type AC units	5.00	RM	@	1000.00
					<u>356,500</u>
	3. Tools, plant & testing			2%	7,130
	Total				<u>363,630</u>
	Contractor's profit & overhead			20%	72,726
	Total Composite rate				<u>438,756</u>

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30-110					
R.M.	Supply, install, connect, test and commission 3 core 95 Sq.mm 11 KV, cross link polythene insulated shielded, armoured and PVC jacketted cable for connecting transformers to HT panel complete in all respect.				
	Detail of Cost for 10 m.				
	1. Labour				
	Electrician	8.00	Hrs @	125.00	1,000.00
	Helper	16.00	Hrs @	75.00	1,200.00
					<u>2,200.00</u>
	Contractor's profit & overhead		20%		440.00
	Total Labour rate				<u>264.00</u> 264
	2. Material				
	Armored 95 Sq.mm 3 core cable	10.00	R.M @	6,800.00	68,000
	Accessories			5%	3,400
					<u>71,400</u>
	3. Tools, plant & testing			2%	1,428
	Total				<u>72,828</u>
	Contractor's profit & overhead		20%		14,566
	Total Composite rate				<u>9,003</u> 9,003
Item No. 30-111					
No.	Wiring of bell point length upto 50 ft (15m) including supply of bell and bell push, 3x1.5 Sq.mm PVC insulated single core copper conductor cable in concealed PVC 3/4" (20mm) dia. conduit and wiring accessories such as elbows, bends, junction boxes, etc				
	Detail of cost for 12 Nos.				
	1. Labour				
	Electrician	24.00	Hrs @	125.00	3,000.00
	Helper	24.00	Hrs @	75.00	1,800.00
					<u>4,800.00</u>
	Contractor's profit & overhead		20%		960.00
	Total Labour rate				<u>480.00</u> 480
	2. Material				
	1.5 sq.mm single core	425.00	R.M. @	24.00	10,200.00
	Electric bell	12.00	No. @	450.00	5,400.00
	Electric bell push	12.00	No. @	80.00	960.00
	Electric plastic box with	12.00	No. @	105.00	1,260.00
	PVC conduit pipe 20 mm dia	120.00	R.M. @	20.90	2,508.00
					<u>20,328.00</u>
	Contractor's profit & overhead		20%		4,065.60
	Total Composite rate				<u>2,512.80</u> 2,513
Item No. 30- 112					
No.	Supply and install single arm fancy wall bracket comprising brass bracket, apple white cylindrical glass shade, lamp holder with 100W lamp.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Electrician	8.00	Hrs @	125.00	1,000.00
	Helper	8.00	Hrs @	75.00	600.00
					<u>1,600.00</u>
	Contractor's profit & overhead		20%		320.00
	Total Labour rate				<u>160.00</u> 160
	2. Material				
	Light fixture - Fancy wall bracket, single	12.00	No. @	1,500.00	18,000.00
	Lamp	12.00	No. @	45.00	540.00
					<u>18,540.00</u>
	Contractor's profit & overhead		20%		3,708.00
	Total Composite rate				<u>2,014.00</u> 2,014

Unit	Description	Component Cost		Unit Rate	
		(Rs)		(Rs)	
Item No. 30- 113					
No.	a) Supply and install 10" (250 mm) sweep exhaust fan including plastic louvers.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30- 79		360.00	360
	2. Material				
	Electric exhaust fan 10"	12.00	No.	@ 2,000.00	24,000.00
	Contractor's profit & overhead			20%	4,800.00
	Total Composite rate				2,760.00
No.	b) Supply and install 8" (200 mm) exhaust fan including plastic louvers.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30- 79		360.00	360
	2. Material				
	Plastic Electric exhaust	12.00	No.	@ 2000.00	24,000.00
	Contractor's profit & overhead			20%	4,800.00
	Total Composite rate				2,760.00
No.	c) Supply and install 6" (200 mm) exhaust fan including plastic louvers.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30- 79		360.00	360
	2. Material				
	Plastic Electric exhaust	12.00	No.	@ 1800.00	21,600.00
	Contractor's profit & overhead			20%	4,320.00
	Total Composite rate				2,520.00
Item No. 30- 114					
No.	Supply and install 20" (500 mm) sweep revolving bracket fan with guard.				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30- 79		360.00	360
	2. Material				
	Electric fan bracket	12.00	No.	@ 2,200.00	26,400.00
	Wall bolts	36.00	No.	@ 22.00	792.00
					27,192.00
	Contractor's profit & overhead			20%	5,438.40
	Total Composite rate				3,079.20
Item No. 30-115					
Each	Supply and install distribution board, 18 SWG steel sheet 18"x24" enclosure, suitable for recess mounting, comprising one incoming MCCB-TP/100A, Outgoing 9 single phase MCB of various capacity with internal wiring earthing, neutral link etc. alongwith three Digital Amp. meters with lights.				
	1. Labour				
	Electrician	8.00	Hrs	@ 125.00	1,000.00
	Helper	8.00	Hrs	@ 75.00	600.00
					1,600.00
	Contractor's profit & overhead			20%	320.00
	Total Labour rate				1,920.00
	2. Material				
	Electric - MCCB TP/100A	1.00	No.	@ 4,500.00	4,500.00
	Electric - Amp. meter	3.00	No.	@ 950.00	2,850.00
	Electric - MCB Single pole	15.00	No.	@ 390.00	5,850.00
	Electric - Neutral & earth	2.00	No.	@ 500.00	1,000.00
	Electric - Page bar	3.00	No.	@ 300.00	900.00
	Electric - Distribution box	1.00	No.	@ 3,500.00	3,500.00
	Testing & commissioning			5%	930.00
					19,530.00
	Contractor's profit & overhead			20%	3,906.00

Unit	Description	Component Cost	Unit	Rate
		(Rs)		(Rs)

Total Composite rate	25,356.00	25,356
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Item No. 30-116

Each a) Provide, install, test and commission recessed wall mounting type distribution board fabricated from 16 SWG steel sheet, powder coated with approved color back box comprising one incoming MCCB-TP/60A and outgoing 9 single phase MCB of various capacity having overload & short circuit protection and of 6 KA braking capacity complete with internal wiring earthing, neutral link, termination blocks, phase indicating lights alongwith 500V voltmeter.

1. Labour

Electrician	8.00	Hrs	@	125.00	1,000.00
Helper	8.00	Hrs	@	75.00	600.00
					<u>1,600.00</u>
Contractor's profit & overhead				20%	320.00
Total Labour rate					<u>1,920.00</u>

2. Material

Electric - MCCB TP/60A	1.00	No.	@	5,500.00	5,500.00
Electric - Volt meter 500V	1.00	No.	@	1,500.00	1,500.00
Electric - Voltage	1.00	No.	@	1,250.00	1,250.00
Electric - Transformer	3.00	No.	@	350.00	1,050.00
Electric - MCB Single pole	9.00	No.	@	480.00	4,320.00
Electric - Neutral & earth	2.00	No.	@	500.00	1,000.00
Electric - Page bar	3.00	No.	@	300.00	900.00
Electric - Distribution box	1.00	No.	@	4,200.00	4,200.00
Electric - HRC fuses	3.00	No.	@	350.00	1,050.00
Testing & commissioning				5%	1,038.50
					<u>21,808.50</u>
Contractor's profit & overhead				20%	4,361.70
Total Composite rate					<u>28,090.20</u>

b) Extra for installing each number circuit breaker 6 Ampere on same distribution board and bus bar (For outgoing)

1. Labour

Electrician	2.00	Hrs	@	125.00	250.00
Helper	2.00	Hrs	@	75.00	150.00
					<u>400.00</u>
Contractor's profit & overhead				20%	80.00
Total Labour rate					<u>480.00</u>

2. Material

Circuit Breaker 6 Ampere	1.00	No.	@	900.00	900.00
Bus bar (6 to 10 Ampere	1.00	No.	@	900.00	900.00
Testing & commissioning				5%	90.00
					<u>1,890.00</u>
Contractor's profit & overhead				20%	378.00
Total Composite rate					<u>2,748.00</u>

Item No. 30-117

No. Supply and install Energy Saver electric bulbs

a) 25W to 100W

Detail of cost for 12 Nos.

1. Labour

Helper	2.00	Hrs	@	75.00	150.00
Contractor's profit & overhead				20%	30.00
Total Labour rate					<u>15.00</u>

2. Material

Lamp	12.00	No.	@	45.00	540.00
Contractor's profit & overhead				20%	108.00
Total Composite rate					<u>69.00</u>

b) 200 Watt bulb

Detail of cost for 12 Nos.

1. Labour

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate	Same as in item 30- 117(a)		15.00	15
	2. Material				
	Lamp 200W	12.00	No. @	125.00	1,500.00
	Contractor's profit & overhead			20%	300.00
	Total Composite rate				165
	c) 25W Philips energy saver				
	Detail of cost for 12 Nos.				
	1. Labour				
	Total Labour rate	Same as in item 30- 117(a)		15.00	15
	2. Material				
	Lamp - 25W energy saver	12.00	No. @	250.00	3,000.00
	Contractor's profit & overhead			20%	600.00
	Total Composite rate				315
	Item No. 30-118				
	Supply and install Electric motors with pump including all accessories.				
	a) 1 HP electric motor with pump				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Plumber	3.00	Hrs @	125.00	375.00
	Helper	3.00	Hrs @	75.00	225.00
					725.00
	Contractor's profit & overhead			20%	145.00
	Total Labour rate				870
	2. Material				
	Electric motor 1 H.P. with pump	1.00	No. @	10,000.00	10,000.00
	Accessories			20%	2,000.00
	Total				12,000.00
	Contractor's profit & overhead			20%	2,400.00
	Total Composite rate				15,270
	b) 1/2 HP electric motor with pump				
	1. Labour				
	Total Labour rate	Same as in item 30- 118(a)		870.00	870
	2. Material				
	Electric motor 1/2 H.P. with pump	1.00	No. @	7,900.00	7,900.00
	Accessories			10%	790.00
	Total				8,690.00
	Contractor's profit & overhead			20%	1,738.00
	Total Composite rate				11,298
	c) Rewinding of electric motor 1 HP				
	1. Labour				
	Electrician	8.00	Hrs @	125.00	1,000.00
	Helper	4.00	Hrs @	75.00	300.00
					1,300.00
	Contractor's profit & overhead			20%	260.00
	Total Labour rate				1,560
	2. Material				
	Copper wire			480.00	480.00
	Rewinding materials 25% of Labour charges			50%	650.00
	Contractor's profit & overhead			20%	130.00
	Total Composite rate				2,820
	d) Rewinding of electric motor 1/2 HP				
	1. Labour				
	Electrician	6.00	Hrs @	125.00	750.00
	Helper	3.00	Hrs @	75.00	225.00
					975.00
	Contractor's profit & overhead			20%	195.00

Unit	Description	Component Cost		Unit	Rate
				(Rs)	(Rs)
	Total Labour rate		1,170.00		1,170
	2. Material				
	Copper Wire	480.00	480.00		
	Rewinding materials 25% of Labour charges	40%	390.00		
	Contractor's profit & overhead	20%	78.00		
	Total Composite rate		2,118.00		2,118
	Item No. 30-119				
	Supply and install 30 Amp. electric cutout (set of three) including all accessories.				
	1. Labour				
	Electrician	2.00 Hrs @	125.00	250.00	
	Contractor's profit & overhead		20%	50.00	
	Total Labour rate			300.00	300
	2. Material				
	Electric cutout switch	3.00 No. @	250.00	750.00	
	Accessories		10%	75.00	
	Total			825.00	
	Contractor's profit & overhead		20%	165.00	
	Total Composite rate			1,290.00	1,290

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30-120					
Each	Supply and install 40W electric tube light rod including patty				
1. Labour					
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead			20%	40.00
	Total Labour rate				240.00
					240
2. Material					
	Electric tube rod	1.00	No. @	130.00	130.00
	Electric tube patty fitting	1.00	No. @	950.00	950.00
	Accessories			10%	108.00
	Total				1,188.00
	Contractor's profit & overhead			20%	237.60
	Total Composite rate				1,665.60
					1,666
Item No. 30-121					
Each	Supply and replace				
a) Tube patty					
1. Labour					
	Electrician	0.50	Hrs @	125.00	62.50
	Helper	0.50	Hrs @	75.00	37.50
					100.00
	Contractor's profit & overhead			20%	20.00
	Total Labour rate				120.00
					120
2. Material					
	Electric tube patty fitting	1.00	No. @	950.00	950.00
	Accessories			5%	47.50
	Total				997.50
	Contractor's profit & overhead			20%	199.50
	Total Composite rate				1,317.00
					1,317
Each	b) Tube rod				
Detail for replacing 5 tube rods					
1. Labour					
	Electrician	0.50	Hrs @	125.00	62.50
	Helper	0.50	Hrs @	75.00	37.50
					100.00
	Contractor's profit & overhead			20%	20.00
	Total Labour rate				24.00
					24
2. Material					
	Electric tube rod	5.00	No. @	130.00	650.00
	Contractor's profit & overhead			20%	130.00
	Total Composite rate				180.00
					180
Each	c) Tube choke (EECO or equivalent) for maintenance work only				
1. Labour					
	Electrician	0.50	Hrs @	125.00	62.50
	Contractor's profit & overhead			20%	12.50
	Total Labour rate				75.00
					75
2. Material					
	Electric tube choke 40w	1.00	No. @	290.00	290.00
	Accessories			5%	14.50
	Total				304.50
	Contractor's profit & overhead			20%	60.90
	Total Composite rate				440.40
					440
Each	d) Tube starter for maintenance work only				
1. Labour					

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate	Same as in item 30-121(b)		24.00	24
	2. Material				
	Electric tube starter	1.00	No. @	30.00	30.00
	Contractor's profit & overhead			20%	6.00
	Total Composite rate				60
	Item No. 30-122				
Each	Supply and install				
	a) Brass holder for maintenance work only				
	1. Labour				
	Total Labour rate	Same as in item 30-121(b)		24.00	24
	2. Material				
	Electric bulb holder brass	1.00	No. @	120.00	120.00
	Accessories			10%	12.00
	Total				132.00
	Contractor's profit & overhead			20%	26.40
	Total Composite rate				182.40
Each	b) Plastic holder including base plate				
	1. Labour				
	Total Labour rate	Same as in item 30-121(b)		24.00	24
	2. Material				
	Electric bulb holder plastic	1.00	No. @	120.0	120.00
	Accessories			10%	12.00
	Total				132.00
	Contractor's profit & overhead			20%	26.40
	Total Composite rate				182.40
	Item No. 30-123				
Each	Supply and install				
	a) 35 gallons electric geyser				
	1. Labour				
	Total Labour rate	Same as in item 30- 79		360.00	360
	2. Material				
	Electric geyser 35 gals.	1.00	No. @	15,000.00	15,000
	Accessories			5%	750
	Total				15,750
	Contractor's profit & overhead			20%	3,150
	Total Composite rate				19,260
Each	b) 55 gallons electric geyser				
	1. Labour				
	Total Labour rate	Same as in item 30- 79		360.00	360
	2. Material				
	Electric geyser 55 gals.	1.00	No. @	16,500.00	16,500
	Accessories			5%	825
	Total				17,325
	Contractor's profit & overhead			20%	3,465
	Total Composite rate				21,150

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	

Item No. 30- 124**Each a) LED Bulbs**

Light Fixture Philips Type LED 13W,complete in all respect with allied accessories or approved equivalent. The fitting shall be approved by the Engineer.

Detail of cost for 10 Nos.

1. Labour						
Electrician	8.00	Hrs	@	112.00	896.00	
Helper	8.00	Hrs	@	57.75	462.00	
					1,358.00	
Contractor's profit & overhead				20%	272	
Total Labour rate					162.96	163
2. Material						
Light Fixture Philips Type LED 13W	10.00	Each	@	550.00	5,500.00	
					5,500.00	
Contractor's profit & overhead				20%	1,100	
Total Composite rate					822.96	823

Each b) LED Panel Lights

Light Fixture Philips Type LED Smart Panel (2X2) 36W,complete in all respect with allied accessories or approved equivalent. The fitting shall be approved by the Engineer.

Detail of cost for 10 Nos.

1. Labour						
Electrician	8.00	Hrs	@	112.00	896.00	
Helper	8.00	Hrs	@	57.75	462.00	
					1,358.00	
Contractor's profit & overhead				20%	272	
Total Labour rate					162.96	163
2. Material						
Light Fixture Philips Type LED 1smart panel (2x2) 36 W	10.00	Each	@	13,500.00	135,000.00	
					135,000.00	
Contractor's profit & overhead				20%	27,000	
Total Composite rate					16,362.96	16,363

Each c) LED Tube Light

Light Fixture Philips Type Decolinca LED 4 Feet ,complete in all respect with allied accessories or approved equivalent. The fitting shall be approved by the Engineer.

Detail of cost for 10 Nos.

1. Labour						
Electrician	8.00	Hrs	@	112.00	896.00	
Helper	8.00	Hrs	@	57.75	462.00	
					1,358.00	
Contractor's profit & overhead				20%	272	
Total Labour rate					162.96	163
2. Material						
Light Fixture Philips Type Decolinca LED 4 Feet	10.00	Each	@	1,850.00	18,500.00	
					18,500.00	
Contractor's profit & overhead				20%	3,700	
Total Composite rate					2,382.96	2,383

Item No. 30- 125**UPS System**

Supply, installation, testing and commissioning of 220 Volts, single phase, 50 Hz Brand New UPS complete in all respect of the following rating:

Each a) 750 Watt

1. Labour						
Electrician	8.00	Hrs	@	112.00	896.00	
Helper	8.00	Hrs	@	57.75	462.00	
					1,358.00	
Contractor's profit & overhead				20%	272	
Total Labour rate					1,629.60	1,630
2. Material						
750 Watt UPS	1.00		@	30,000.00	30,000.00	
					30,000.00	
Contractor's profit & overhead				20%	6,000	
Total Composite rate					36,480.00	36,480

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Each b) 1000 Watt					
1. Labour					
Electrician	8.00	Hrs	@	112.00	896.00
Helper	8.00	Hrs	@	57.75	462.00
					<u>1,358.00</u>
Contractor's profit & overhead				20%	272
Total Labour rate					<u>1,629.60</u> 1,630
2. Material					
750 Watt UPS	1.00		@	30,000.00	30,000.00
					<u>30,000.00</u>
Contractor's profit & overhead				20%	6,000
Total Composite rate					<u>36,480.00</u> 36,480
Each c) 1500 Watt					
1. Labour					
Electrician	8.00	Hrs	@	112.00	896.00
Helper	8.00	Hrs	@	57.75	462.00
					<u>1,358.00</u>
Contractor's profit & overhead				20%	272
Total Labour rate					<u>1,629.60</u> 1,630
2. Material					
1000 Watt UPS	1.00		@	35,000.00	35,000.00
					<u>35,000.00</u>
Contractor's profit & overhead				20%	7,000
Total Composite rate					<u>42,480.00</u> 42,480
Each d) 2000 Watt					
1. Labour					
Electrician	8.00	Hrs	@	112.00	896.00
Helper	8.00	Hrs	@	57.75	462.00
					<u>1,358.00</u>
Contractor's profit & overhead				20%	272
Total Labour rate					<u>1,629.60</u> 1,630
2. Material					
2000 Watt UPS	1.00		@	60,000.00	60,000.00
					<u>60,000.00</u>
Contractor's profit & overhead				20%	12,000
Total Composite rate					<u>72,480.00</u> 72,480
Item No. 30- 126					
FIRE ALARM SYSTEM					
R.M. a) Fire resistance insulated 2-core, 1.5mm2 cable in PVC Conduits in 25 mm2 conduit					
Detail of cost for 10 Feet					
1. Labour					
Electrician	2.00	Hrs	@	112.00	224.00
Helper	2.00	Hrs	@	57.75	115.50
					<u>339.50</u>
Contractor's profit & overhead				20%	68
Total Labour rate					<u>133.63</u> 134
2. Material					
Fire resistance insulated 2-core, 1.5mm2 cable	10.00	Rft.	@	35.00	350.00
P.V.C. conduit pipe 25 mm dia					<u>350.00</u>
Contractor's profit & overhead				20%	70
Total Composite rate					<u>268.36</u> 268

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
Each b)	Addressable break glass manual call stations (Copper Menvier UK, Honey well,Gent or approved equivalent).				
	Detail of cost for 10 Nos.				
	1. Labour				
	Electrician	8.00	Hrs @	112.00	896.00
	Helper	8.00	Hrs @	57.75	462.00
					<u>1,358.00</u>
	Contractor's profit & overhead		20%		272
	Total Labour rate				<u>162.96</u> 163
	2. Material				
	Addressable break glass manual call stations (Copper Menvier UK, Honey well,Gent or approved equivalent).	10.00	Each @	3,600.00	36,000.00
					<u>36,000.00</u>
	Contractor's profit & overhead		20%		7,200
	Total Composite rate				<u>4,482.95</u> 4,483
Each c)	Addressable sounder and accessories (Copper Menvier UK, Honey well,Gent or approved equivalent).				
	Detail of cost for 10 Nos.				
	1. Labour				
	Electrician	8.00	Hrs @	112.00	896.00
	Helper	8.00	Hrs @	57.75	462.00
					<u>1,358.00</u>
	Contractor's profit & overhead		20%		272
	Total Labour rate				<u>162.96</u> 163
	2. Material				
	Addressable sounder and accessories (Copper Menvier UK, Honey well,Gent or approved equivalent).	10.00	Each @	6,000.00	60,000.00
					<u>60,000.00</u>
	Contractor's profit & overhead		20%		12,000
	Total Composite rate				<u>7,362.95</u> 7,363
Each d)	Addressable Photo electric Smoke Detectors as approved by the engineer (Copper Menvier UK, Honey well, Gent or approved equivalent).				
	Detail of cost for 10 Nos.				
	1. Labour				
	Electrician	8.00	Hrs @	112.00	896.00
	Helper	8.00	Hrs @	57.75	462.00
					<u>1,358.00</u>
	Contractor's profit & overhead		20%		339.50
	Total Labour rate				<u>169.75</u> 170
	2. Material				
	Addressable Photo electric Smoke Detectors as approved by the engineer (Copper Menvier UK, Honey well, Gent or approved equivalent).	10.00	Each @	2,880.00	28,800.00
					<u>28,800.00</u>
	Contractor's profit & overhead		20%		7,200.00
	Total Composite rate				<u>3,769.75</u> 3,770
Each e)	Addressable Heat Detectors as approved by the engineer (Copper Menvier UK, Honey well, Gent or approved equivalent).				
	Detail of cost for 10 Nos.				
	1. Labour				
	Electrician	8.00	Hrs @	112.00	896.00
	Helper	8.00	Hrs @	57.75	462.00
					<u>1,358.00</u>
	Contractor's profit & overhead		20%		339.50
	Total Labour rate				<u>169.75</u> 170
	2. Material				
	Addressable Heat Detectors as approved by the engineer (Copper Menvier UK, Honey well, Gent or approved equivalent).	10.00	Each @	2,880.00	28,800.00
					<u>28,800.00</u>
	Contractor's profit & overhead		20%		7,200.00
	Total Composite rate				<u>3,769.75</u> 3,770

Unit	Description	Component Cost	Unit	Rate
		(Rs)		(Rs)

Each f) Addressable Fire Alarm Control Panel as per project specified requirements (2 Loop) including backup battery, complete with all installation accessories, testing and commissioning (Copper

Detail of cost for complete job

1. Labour

Electrician	24.00	Hrs	@	112.00	2,688.00	
Helper	24.00	Hrs	@	57.75	1,386.00	
					<u>4,074.00</u>	
Contractor's profit & overhead				20%	1,018.50	
Total Labour rate					<u>5,092.50</u>	5,093

2. Material

Addressable Fire Alarm Control Panel as per project specified requirements (2 Loop) including backup battery, complete with all installation accessories, testing and commissioning (Copper Menvier UK, Honey well, Gent or approved equivalent).	1.00	JOB	@	155,000.00	155,000.00	
					<u>155,000.00</u>	
Contractor's profit & overhead				20%	38,750.00	
Total Composite rate					<u>198,842.50</u>	198,843

Item No. 30- 127

Add extra for respective payable item of ground floor

a) For first floor						10.0%
b) For every additional floor above first floor						7.5%

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	(Rs)

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	(Rs)

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	(Rs)

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	(Rs)

Unit	Description	Component Cost		Unit Rate	
				(Rs)	(Rs)
No.	Item No. 30- 128 Supply and install Pole mounted weather proof LED 50 Watt fixture including accessories, installation materials. Philips or approved equivalent				
	Detail of cost for 1Nos.				
	1. Labour				
	Electrician	24.00	Hrs @	112.00	2,688.00
	Helper	24.00	Hrs @	57.75	1,386.00
					4,074.00
	Contractor's profit & overhead		20%		1,018.50
	Total Labour rate				5,092.50
					5,093
	2. Material				
	BRP372 LED121/CW 120W 220-240V DM2E	1.00	No. @	15,000.00	15,000.00
	Contractor's profit & overhead		20%		3,000.00
	Total Composite rate				23,092.50
					23,093
Unit	Item No. 30-129 Supply and install 1-gang, 5 Amp, 250 Volt,. plate type moulded Clipsal/Schneider or equivalent imported switch including appropriate size plastic box to be fixed recessed in wall.				
	Detail of cost for 12 units				
	1. Labour				
	Electrician	3.00	Hrs @	125.00	375.00
	Helper	3.00	Hrs @	75.00	225.00
					600.00
	Contractor's profit & overhead		20%		120.00
	Total Labour rate				60.00
					60
	2. Material				
	Clipsal Switch I Gang	12.00	No. @	450.00	5,400.00
	Electric plastic box with plate single hole	12.00	No. @	105.00	1,260.00
					6,660.00
	3. Tools & Plant			10%	666.00
	Total				7,326.00
	Contractor's profit & overhead		20%		1,465.20
	Total Composite rate				792.60
					793
Unit	Item No. 30-130 Description same as in Item 30-129 but with 2 gang switch.				
	Detail of cost for 12 units				
	1. Labour				
	Electrician	4.00	Hrs @	125.00	500.00
	Helper	4.00	Hrs @	75.00	300.00
					800.00
	Contractor's profit & overhead		20%		160.00
	Total Labour rate				80.00
					80
	2. Material				
	Clipsal Switch 2 Gang	12.00	No. @	500.00	6,000.00
	Electric plastic box with plate two to three hole	12.00	No. @	145.00	1,740.00
					7,740.00
	3. Tools & Plant			10%	774.00
	Total				8,514.00
	Contractor's profit & overhead		20%		1,702.80
	Total Composite rate				931.40
					931
Unit	Item No. 30-131 Description same as in Item 30-129 but with 3 gang switch.				
	Detail of cost for 12 units				
	1. Labour				
	Electrician	5.00	Hrs @	125.00	625.00
	Helper	5.00	Hrs @	75.00	375.00
					1,000.00
	Contractor's profit & overhead		20%		200.00
	Total Labour rate				100.00
					100
	2. Material				
	Clipsal Switch 3 Gang	12.00	No. @	550.00	6,600.00
	Electric plastic box with plate two to three hole	12.00	No. @	145.00	1,740.00
					8,340.00
	3. Tools & Plant			10%	834.00
	Total				9,174.00
	Contractor's profit & overhead		20%		1,834.80
	Total Composite rate				1,017.40
					1,017

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 30-132					
Unit	Description same as in Item 30-129 but with 4 up to 6 gang switch.				
	Detail of cost for 12 units				
1. Labour					
Electrician	6.00	Hrs	@	125.00	750.00
Helper	6.00	Hrs	@	75.00	450.00
					1,200.00
Contractor's profit & overhead				20%	240.00
Total Labour rate					120.00
					120
2. Material					
Clipsal Switch 4 Gang	12.00	No.	@	600.00	7,200.00
Electric plastic box with plate two to three hole	12.00	No.	@	145.00	1,740.00
					8,940.00
3. Tools & Plant				10%	894.00
Total					9,834.00
Contractor's profit & overhead				20%	1,966.80
Total Composite rate					1,103.40
					1,103
Item No. 30-133					
Unit	Supply and installation of 5 Amp. 250 Volt, moulded, two-way single pole, flush mounting type light control single switch including appropriate size plastic box to be fixed recessed in wall.				
	Detail of cost for 12 units				
1. Labour					
Total Labour rate	Same as in item No.30-13				100.00
					100
2. Material					
Clipsal Switch 2 way	12.00	No.	@	950.00	11,400.00
Electric plastic box with plate single hole	12.00	No.	@	105.00	1,260.00
Electric - Page bar	12.00	No.	@	300.00	3,600.00
					16,260.00
3. Tools & Plant				10%	1,626.00
Total					17,886.00
Contractor's profit & overhead				20%	3,577.20
Total Composite rate					1,888.60
					1,889
Item No. 30- 134					
No.	Supply and install 5 Amp, 250 Volt moulded, one-way, single pole, flush mounting piano type light control switch alongwith fan dimmers on appropriate size plastic box to be fixed recessed in wall alongwith switch box and plate suitable for upto 3 switches on a common board (Clipsal-Schneider or equivalent)				
	Detail of cost for 12 units				
1. Labour					
Electrician	24.00	Hrs	@	125.00	3,000.00
Helper	24.00	Hrs	@	75.00	1,800.00
					4,800.00
Contractor's profit & overhead				20%	960.00
Total Labour rate					480.00
					480
2. Material					
Clipsal Fan regulator	12.00	No.	@	1250.00	15,000.00
Clipsal Switch 3 Gang	12.00	No.	@	550.00	6,600.00
Electric plastic box with plate two to three hole	12.00	No.	@	145.00	1,740.00
					23,340.00
3. Tools & Plant				10%	2,334.00
Total					25,674.00
Contractor's profit & overhead				20%	4,668.00
Total Composite rate					3,008.50
					3,009

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
Item No. 31-1						
Per Watt	a) Supply, Install, connect, test and commission of SOLAR PANEL (Chinese) & accessories.					
	1. Labour					
	Electrician	0.03	Hrs/Watt	@	125.00	3.75
	Helper	0.03	Hrs/Watt	@	87.50	2.63
						6.38
	Contractor's profit & overhead			20%		1.28
	Total Labour rate				7.65	7.65
	2. Material					
	Solar Panel available with different Watts (W), Efficiency 15.0 % for 100 W and 16% for 300 W+ fill factor 74% Polycrystalline nominal voltage ratings of 12, 24, or 48 V Warranty: 80% Standard Performance Warranty after 25 years Environmental Data: -40 to +85 °C IEC Certification IEC61215, IEC61730, TVU (SUD/Nord) German Certified. Junction Box IP 67 Rating Nominal Operating Cell Temperature 45±2 °C Max System Voltage 1000VDC (IEC) (TUV)	1.00	Per Watt	@	60.00	60.00
	Accessories			2%		1.20
Total					68.85	
Contractor's profit & overhead			20%		13.77	
Total Composite Rate				90.27	90.25	
Per Watt	b) Supply, Install, connect, test and commission of SOLAR INVERTER (Chinese) & accessories.					
	1. Labour					
	Electrician	0.03	Hrs/Watt	@	125.00	3.75
	Helper	0.03	Hrs/Watt	@	87.50	2.63
						6.38
	Contractor's profit & overhead			20%		1.28
	Total Labour rate				7.65	7.65
	2. Material					
	Solar Inverter -Rating (5 kW) - Power capacity of the inverter including Continuous, Limited-Time and Stack rating voltage conversion and regulation of the varying amounts of DC voltages and currents generated by the PVPs by External Charge Controller. - Total Harmonic Distortion (THD), - RMS (Root Mean Square) Voltage - Peak Voltage regulation - Sine Wave - Automatic ON/OFF - Stack/Modular arrangement (connecting two or more inverters in parallel to perform as one unit). - Under/Over Voltage & Over Current protection - Both single/three phase type. - Multi-string input with string failure detection. - AC short circuit protection. - Ground fault monitoring. - Ingress protection rating / electrical connection: IP66. - CEC Efficiency > 85%, - Warranty: 1 years	1.00		@	20.00	20.00
	Accessories			2%		0.40
Total					28.05	
Contractor's profit & overhead			20%		5.61	
Total Composite Rate				41.31	41.30	
Per Amp @ 12/24 Volts	c) Supply, Install, connect, test and commission of SOLAR CHARGE CONTROLLER (Chinese) & accessories.					
	1. Labour					
	Electrician	0.02	Hrs/Amp	@	125.00	2.50
Helper	0.02	Hrs/Amp	@	87.50	1.75	
					4.25	
Contractor's profit & overhead			20%		0.85	
Total Labour rate				5.10	5.10	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material				
	Charge Controller	1.00	Per Amp @	900.00	900.00
	Advanced MPPT algorithm with the max. tracking efficiency of 95%		12/24 Volts		
	• Peak conversion efficiency 90%				
	• LCD displays				
	• Four battery type options: Sealed, Gel, Flooded and User-defined				
	• Energy statistics recording				
	• Programmable battery management parameters				
	• Built-in running data and event logging, max. 15 months				
	• Log function: work logs and alarm logs are all recorded				
	• Field upgradable firmware				
	• Self-consumption 1.4~2.2W				
	• Grounding Common negative				
	• Temp. compensation -3mV/°C/2V				
	• Enclosure IP20				
	• Working temperature -25°C ~ +55°C				
	Accessories			2%	18.00
	Total				923.10
	Contractor's profit & overhead			20%	184.62
	Total Composite Rate				1,112.82
					1,112.80

d) Supply, install, connect, test and commission of SOLAR MOUNTING STRUCTURE & accessories.

i) Fixed

1. Labour

Electrician	0.01	Hrs/Watt	@	125.00	1.25
Helper	0.01	Hrs/Watt	@	87.50	0.88
					2.13
Contractor's profit & overhead				20%	0.43
Total Labour rate					2.55
					2.55

2. Material

MOUNTING STRUCTURE FIXED	1.00	per watt	@	12.00	12.00
- Galvanized iron mounting structures					
- supported by galvanized Footing					
-120 Kmph wind speed withstanding					
Accessories				2%	0.24
Total					14.79
Contractor's profit & overhead				20%	2.96
Total Composite Rate					20.30
					20.30

ii) Movable

1. Labour

Electrician	0.01	Hrs/Watt	@	125.00	1.25
Helper	0.01	Hrs/Watt	@	87.50	0.88
					2.13
Contractor's profit & overhead				20%	0.43
Total Labour rate					2.55
					2.55

2. Material

MOUNTING STRUCTURE MOVABLE	1.00	per watt	@	22.00	22.00
- Galvanized iron mounting structures					
- supported by galvanized Footing					
-120 Kmph wind speed withstanding					
Accessories				2%	0.44
Total					24.99
Contractor's profit & overhead				20%	5.00
Total Composite Rate					32.54
					32.55

PER AH e) Supply, install, connect, test and commission of BATTERIES-LEAD ACID & accessories.

i) 600 Cycle

1. Labour					
Electrician	0.02	Hrs /AH	@	125.00	2.50
Helper	0.02	Hrs/ AH	@	87.50	1.75
					4.25
Contractor's profit & overhead				20%	0.85
Total Labour rate					5.10
					5.10

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material 12V Battery Type: Standard Lead Acid and its life Cycles will be 600 @ 50% DoD Max Temperature 25 Degree Celsius	1.00	per AH @	150.00	150.00
	Accessories			2%	3.00
	Total				158.10
	Contractor's profit & overhead			20%	31.62
	Total Composite Rate				194.82
					194.80
PER AH	ii) 1000 Cycle				
	1. Labour				
	Electrician	0.02	Hrs/ AH @	125.00	2.50
	Helper	0.02	Hrs/ AH @	87.50	1.75
					4.25
	Contractor's profit & overhead			20%	0.85
	Total Labour rate				5.10
					5.10
	2. Material 12V Battery Type: Standard Lead Acid and its life Cycles will be 1000 @ 50% DoD Max Temperature 25 Degree Celsius	1.00	per AH @	240.00	240.00
	Accessories			2%	4.80
	Total				249.90
	Contractor's profit & overhead			20%	49.98
	Total Composite Rate				304.98
					305.00
PER AH	iii) 1500 Cycle				
	1. Labour				
	Electrician	0.02	Hrs/ AH @	125.00	2.50
	Helper	0.02	Hrs/ AH @	87.50	1.75
					4.25
	Contractor's profit & overhead			20%	0.85
	Total Labour rate				5.10
					5.10
	2. Material 12V Battery Type: Standard Lead Acid and its life Cycles will be 1500 @ 50% DoD Max Temperature 25 Degree Celsius	1.00	per AH @	780.00	780.00
	Accessories			2%	15.60
	Total				800.70
	Contractor's profit & overhead			20%	160.14
	Total Composite Rate				965.94
					965.95
PER AH	iv) 2000 Cycle				
	1. Labour				
	Electrician	0.02	Hrs/ AH @	125.00	2.50
	Helper	0.02	Hrs/ AH @	87.50	1.75
					4.25
	Contractor's profit & overhead			20%	0.85
	Total Labour rate				5.10
					5.10
	2. Material 12V Battery Type: Standard Lead Acid and its life Cycles will be 2000 @ 50% DoD Max Temperature 25 Degree Celsius	1.00	per AH @	900.00	900.00
	Accessories			2%	18.00
	Total				923.10
	Contractor's profit & overhead			20%	184.62
	Total Composite Rate				1,112.82
					1,112.80
PER AH	g) Supply, Install, connect, test and commission of 2VOLT CELL-MAINTENANCE FREE & accessories. (1000 Cycles)				
	1. Labour				
	Electrician	0.02	Hrs/ AH @	125.00	2.50
	Helper	0.02	Hrs/ AH @	87.50	1.75
					4.25
	Contractor's profit & overhead			20%	0.85

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		5.10		5.10
	2. Material				
	1.00 per AH @	600.00	600.00		
	- 1000+ cycles @ 50% DoD)				
	- Sealed maintenance free				
	- tubular gel Valve Regulated Lead Acid (VRLA) type.				
	- Deep-cycle lead-acid batteries of the sealed type.				
	- Explosion proof vent plug s at the upper part of the container.				
	- ambient temperature of –10oC to +40oC.				
	- Lead Plated Solid Copper Connectors.				
	- easy access and sufficient flexibility at the time of cell unit replacement, and also easy to check the status.				
	Accessories	5%	30.00		
	Total		635.10		
	Contractor's profit & overhead	20%	127.02		
	Total Composite Rate		767.22		767.20
PER AH	h) Supply, Install, connect, test and commission of 2VOLT CELL-MAINTENANCE FREE & accessories. (600 Cycles)				
	1. Labour				
	Electrician	0.02 Hrs/ AH @	125.00	2.50	
	Helper	0.02 Hrs/ AH @	87.50	1.75	
				4.25	
	Contractor's profit & overhead	20%	0.85		
	Total Labour rate		5.10		5.10
	2. Material				
	1.00 per AH @	500.00	500.00		
	- 600+ cycles @ 50% DoD)				
	- Sealed maintenance free				
	- tubular gel Valve Regulated Lead Acid (VRLA) type.				
	- Deep-cycle lead-acid batteries of the sealed type.				
	- Explosion proof vent plug s at the upper part of the container.				
	- ambient temperature of –10oC to +40oC.				
	- Lead Plated Solid Copper Connectors.				
	- easy access and sufficient flexibility at the time of cell unit replacement, and also easy to check the status.				
	Accessories	5%	25.00		
	Total		530.10		
	Contractor's profit & overhead	20%	106.02		
	Total Composite Rate		641.22		641.20
PER AH	i) Supply, Install, connect, test and commission of BATTERIES-MAINTENANCE FREE Li- ion (PO4) & accessories.				
	1. Labour				
	Electrician	0.02 Hrs/100 AH @	125.00	2.50	
	Helper	0.02 Hrs/100 AH @	87.50	1.75	
				4.25	
	Contractor's profit & overhead	20%	0.85		
	Total Labour rate		5.10		5.10
	2. Material				
	1.00 per AH @	1,000.00	1,000.00		
	- ambient temperature of –10oC to +40oC.				
	- easy access and sufficient flexibility at the time of cell unit replacement, and also easy to check the status.				
	FREE Li- ion (PO4)				
	Accessories	5%	50.00		
	Total		1,055.10		
	Contractor's profit & overhead	20%	211.02		
	Total Composite Rate		1,271.22		1,271.20
PER AH	J) Supply, Install, connect, test and commission of BATTERIES-GEL 1000 Cycles & accessories.				
	1. Labour				
	Electrician	0.02 Hrs /AH @	125.00	2.50	
	Helper	0.02 Hrs/ AH @	87.50	1.75	
				4.25	
	Contractor's profit & overhead	20%	0.85		
	Total Labour rate		5.10		5.10

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	2. Material 12V Battery Type: GEL and its life Cycles will be equal than 1000 @ 50% DoD Max Temperature 25 Degree Celsius	1.00	per AH @	260.00	260.00
	Accessories			2%	5.20
	Total				270.30
	Contractor's profit & overhead			20%	54.06
	Total Composite Rate				329.46
					329.45

PER AH K) Supply, Install, connect, test and commission of BATTERIES-GEL 600 & accessories.

1. Labour					
Electrician	0.02	Hrs/ AH @	125.00	2.50	
Helper	0.02	Hrs/ AH @	87.50	1.75	
				4.25	
Contractor's profit & overhead			20%	0.85	
Total Labour rate				5.10	5.10
2. Material					
12V	1.00	per AH @	200.00	200.00	
Battery Type: GEL and its life Cycles will be equal than 600 @ 50% DoD Max Temperature 25 Degree Celsius					
Accessories			2%	4.00	
Total				209.10	
Contractor's profit & overhead			20%	41.82	
Total Composite Rate				256.02	256.00

PER AH I) Supply, Install, connect, test and commission of BATTERIES-AGM 600 & accessories.

1. Labour					
Electrician	0.02	Hrs/ AH @	125.00	2.50	
Helper	0.02	Hrs/ AH @	87.50	1.75	
				4.25	
Contractor's profit & overhead			20%	0.85	
Total Labour rate				5.10	5.10
2. Material					
12V	1.00	per AH @	550.00	550.00	
Battery Type: AGM and its life Cycles will be equal 600 @ 50% DoD Max Temperature 25 Degree Celsius					
Accessories			2%	11.00	
Total				566.10	
Contractor's profit & overhead			20%	113.22	
Total Composite Rate				684.42	684.40

PER AH m) Supply, Install, connect, test and commission of BATTERIES-AGM 1000 & accessories.

1. Labour					
Electrician	0.02	Hrs/ AH @	125.00	2.50	
Helper	0.02	Hrs/ AH @	87.50	1.75	
				4.25	
Contractor's profit & overhead			20%	0.85	
Total Labour rate				5.10	5.10
2. Material					
12V	1.00	per AH @	750.00	750.00	
Battery Type: AGM and its life Cycles will be equal to 1000 @ 50% DoD Max Temperature 25 Degree Celsius					
Accessories			2%	15.00	
Total				770.10	
Contractor's profit & overhead			20%	154.02	
Total Composite Rate				929.22	929.20

Item No. 31-2**a) Supply, Install, connect, test and commission of INVERTER (European) & accessories.**

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Electrician	0.03 Hrs/Watt @	125.00			3.75
Helper	0.03 Hrs/Watt @	87.50			2.63
					6.38
Contractor's profit & overhead		20%			1.28
Total Labour rate					7.65
					7.65
2. Material					
Solar Inverter	1.00 VA @	50.00			50.00
-Rating					
- Power capacity of the inverter including Continuous, Limited-Time and Stack rating voltage conversion and regulation of the varying amounts of DC voltages and currents generated by the PVPs by External MPPT Charge Controller.					
- Total Harmonic Distortion (THD),					
- RMS (Root Mean Square) Voltage					
- Peak Voltage regulation					
- Pure Sine Wave					
- Automatic ON/OFF					
- Stack/Modular arrangement (connecting two or more inverters in parallel to perform as one unit).					
- Under/Over Voltage & Over Current protection					
- Both single/three phase type.					
- Multi-string input with string failure detection.					
- AC short circuit protection.					
- Ground fault monitoring.					
- Grid monitoring.					
- Ingress protection rating / electrical connection: IP66.					
- CEC Efficiency > 97%,					
- Warranty: 2 years					
- EN 62109-1 2010 (Safety), EN 61000-6-2:2005 (EMC compatibility)					

Unit	Description	Component Cost	Unit	Rate
		(Rs)	(Rs)	
	Accessories	2%		1.00
	Total			58.65
	Contractor's profit & overhead	20%		11.73
	Total Composite Rate			78.03
				78.05

b) Supply, install, connect, test and commission of CHARGE CONTROLLER (European) & accessories.

i) MPPT

1. Labour

Electrician	0.02	Hrs/Amp	@	125.00	2.50
Helper	0.02	Hrs/Amp	@	87.50	1.75
					4.25
Contractor's profit & overhead				20%	0.85
Total Labour rate					5.10
					5.10

2. Material

1.00	Per Amp @	@	1,833.00	1,833.00
	12/24 Volts			
	<ul style="list-style-type: none"> • Charge Controller MPPT • Nominal battery voltage 12, 24, 36, 48, 60 V • Battery voltage operating range 0 Vdc to 80 Vdc • Max. PV array voltage (operating) 140 V • Max. PV array open circuit voltage 150 V • Max. array short-circuit current 60 A (48 A @ STC) • Max. charge current 60 A (for all battery voltages except 60 V) • Max. output power 3500 W • Supported battery types Flooded, GEL, AGM, Custom • Max. power conversion efficiency 93% (nominal 12 V), 96% (nominal 24 V), 97% (nominal 36 V), 98% (nominal 48 V), 99% (nominal 60 V) • Power consumption, night time 2.5 W • Auxiliary output 5 - 13 V, up to 200 mA • IP degree of protection IP20 • Device mounting Vertical wall mount • Ambient air temperature for operation -20°C to 45°C (-4°F to 113°F) • Storage temperature range -40°C to 85°C (-40°F to 185°F) full power, power derating above 45°C • Safety CSA Certified (UL1741, CSA 107.1) and CE Marked for the Low Voltage Directive (EN50178) • EMC FCC and Industry Canada (Class B), CE Marked for the EMC Directive (EN61000-6-1, -6-3), C-Tick compliant 			
			2%	36.66
				1,874.76
			20%	374.95
				2,254.81
				2,254.80

i) PWM

1. Labour

Electrician	0.02	Per Amp @	@	125.00	2.50
		12/24 Volts			
Helper	0.02	Per Amp @	@	87.50	1.75
		12/24 Volts			
					4.25
Contractor's profit & overhead				20%	0.85
Total Labour rate					5.10
					5.10

2. Material

1.00	Per Amp @	@	600.00	600.00
	12/24 Volts			
	<ul style="list-style-type: none"> • Charge Controller PWM • Nominal battery voltage 12, 24, 36, 48, 60 V 			
			2%	12.00
				617.10
			20%	123.42
				745.62
				745.60

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 31-3					
R.M.	Supply, Install, connect, test and commission of CABLES & accessories.				
DC Cable					
- Stranded and flexible insulated copper DC wires and cables must be used for all outdoor and indoor installations.					
- voltage drop must not exceed 1% on DC side of the power inverter and 1.5% on AC side of the power inverter.					
- The wiring that leads into the pole, protected in a PVC Spiral / Flexible conduit.					
- External cables adapted to outdoor exposure as per IEC 60811.					
- The outer insulation: sunlight (UV)-resistant and weather-proof.					
a) DC Cable 1.5 mm2 Single Core					
1. Labour					
	Electrician	0.02	Hrs	@	125.00 2.50
	Helper	0.02	Hrs	@	87.50 1.75
					4.25
	Contractor's profit & overhead			20%	0.85
	Total Labour rate				5.10 5.10
2. Material					
	DC Cable 1.5 mm2 Single Core	1.00	R.M	@	35.00 35.00
	Accessories			2%	0.70
	Total				40.80
	Contractor's profit & overhead			20%	8.16
	Total Composite Rate				54.06 54.05
b) DC Cable 2.5mm2 Single Core					
1. Labour					
	Electrician	0.02	Hrs	@	125.00 2.50
	Helper	0.02	Hrs	@	87.50 1.75
					4.25
	Contractor's profit & overhead			20%	0.85
	Total Labour rate				5.10 5.10
2. Material					
	DC Cable 2.5mm2 Single Core	1.00	R.M	@	43.00 43.00
	Accessories			2%	0.86
	Total				48.96
	Contractor's profit & overhead			20%	9.79
	Total Composite Rate				63.85 63.85
c) DC Cable 4mm2 Single Core					
1. Labour					
	Electrician	0.02	Hrs	@	125.00 2.50
	Helper	0.02	Hrs	@	87.50 1.75
					4.25
	Contractor's profit & overhead			20%	0.85
	Total Labour rate				5.10 5.10
2. Material					
	DC Cable 4mm2 Single Core	1.00	R.M	@	56.25 56.25
	Accessories			2%	1.13
	Total				62.48
	Contractor's profit & overhead			20%	12.50
	Total Composite Rate				80.07 80.05
d) DC Cable 4mm2 Two Core					
1. Labour					
	Electrician	0.02	Hrs	@	125.00 2.50
	Helper	0.02	Hrs	@	87.50 1.75
					4.25
	Contractor's profit & overhead			20%	0.85
	Total Labour rate				5.10 5.10
2. Material					
	DC Cable 4mm2 Two Core	1.00	R.M	@	137.50 137.50
	Accessories			2%	2.75
	Total				145.35
	Contractor's profit & overhead			20%	29.07
	Total Composite Rate				179.52 179.50
e) DC Cable 6mm2 Single Core					
1. Labour					
	Electrician	0.02	Hrs	@	125.00 2.50
	Helper	0.02	Hrs	@	87.50 1.75
					4.25
	Contractor's profit & overhead			20%	0.85

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
	Total Labour rate		5.10		5.10		
	2. Material						
	DC Cable 6mm2 Single Core	1.00	R.M	@	81.25	81.25	
	Accessories				2%	1.63	
	Total					87.98	
	Contractor's profit & overhead				20%	17.60	
	Total Composite Rate					110.67	110.65
f)	DC Cable 6mm2 two Core						
	1. Labour						
	Electrician	0.02	Hrs	@	125.00	2.50	
	Helper	0.02	Hrs	@	87.50	1.75	
						4.25	
	Contractor's profit & overhead				20%	0.85	
	Total Labour rate					5.10	5.10
	2. Material						
	DC Cable 6mm2 two Core	1.00	R.M	@	200.00	200.00	
	Accessories				2%	4.00	
	Total					209.10	
	Contractor's profit & overhead				20%	41.82	
	Total Composite Rate					256.02	256.00
g)	DC Cable 6mm2 four Core						
	1. Labour						
	Electrician	0.02	Hrs	@	125.00	2.50	
	Helper	0.02	Hrs	@	87.50	1.75	
						4.25	
	Contractor's profit & overhead				20%	0.85	
	Total Labour rate					5.10	5.10
	2. Material						
	DC Cable 6mm2 four Core	1.00	R.M	@	387.50	387.50	
	Accessories				2%	7.75	
	Total					400.35	
	Contractor's profit & overhead				20%	80.07	
	Total Composite Rate					485.52	485.50
h)	DC Cable 10mm2 Single Core						
	1. Labour						
	Electrician	0.02	Hrs	@	125.00	2.50	
	Helper	0.02	Hrs	@	87.50	1.75	
						4.25	
	Contractor's profit & overhead				20%	0.85	
	Total Labour rate					5.10	5.10
	2. Material						
	DC Cable 10mm2 Single Core	1.00	R.M	@	137.50	137.50	
	Accessories				2%	2.75	
	Total					145.35	
	Contractor's profit & overhead				20%	29.07	
	Total Composite Rate					179.52	179.50
i)	DC Cable 10mm2 two Core						
	1. Labour						
	Electrician	0.02	Hrs	@	125.00	2.50	
	Helper	0.02	Hrs	@	87.50	1.75	
						4.25	
	Contractor's profit & overhead				20%	0.85	
	Total Labour rate					5.10	5.10
	2. Material						
	DC Cable 10mm2 two Core	1.00	R.M	@	325.00	325.00	
	Accessories				2%	6.50	
	Total					336.60	
	Contractor's profit & overhead				20%	67.32	
	Total Composite Rate					409.02	409.00
j)	DC Cable 10mm2 Four Core						
	1. Labour						
	Electrician	0.02	Hrs	@	125.00	2.50	
	Helper	0.02	Hrs	@	87.50	1.75	
						4.25	
	Contractor's profit & overhead				20%	0.85	
	Total Labour rate					5.10	5.10
	2. Material						
	DC Cable 10mm2 Four Core	1.00	R.M	@	580.00	580.00	

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Accessories	2%	11.60		
	Total		596.70		
	Contractor's profit & overhead	20%	119.34		
	Total Composite Rate		721.14		721.15
k)	DC Cable 16mm2 single Core				
	1. Labour				
	Electrician	0.02	Hrs @	125.00	2.50
	Helper	0.02	Hrs @	87.50	1.75
					4.25
	Contractor's profit & overhead	20%	0.85		
	Total Labour rate		5.10		5.10
	2. Material				
	DC Cable 16mm2 single Core	1.00	R.M @	200.00	200.00
	Accessories			2%	4.00
	Total				209.10
	Contractor's profit & overhead	20%	41.82		
	Total Composite Rate		256.02		256.00
l)	DC Cable 16mm2 two Core				
	1. Labour				
	Electrician	0.02	Hrs @	125.00	2.50
	Helper	0.02	Hrs @	87.50	1.75
					4.25
	Contractor's profit & overhead	20%	0.85		
	Total Labour rate		5.10		5.10
	2. Material				
	DC Cable 16mm2 two Core	1.00	R.M @	676.25	676.25
	Accessories			2%	13.53
	Total				694.88
	Contractor's profit & overhead	20%	138.98		
	Total Composite Rate		838.95		838.95
m)	DC Cable 16mm2 Four Core				
	1. Labour				
	Electrician	0.02	Hrs @	125.00	2.50
	Helper	0.02	Hrs @	87.50	1.75
					4.25
	Contractor's profit & overhead	20%	0.85		
	Total Labour rate		5.10		5.10
	2. Material				
	DC Cable 16mm2 Four Core	1.00	R.M @	898.75	898.75
	Accessories			2%	17.98
	Total				921.83
	Contractor's profit & overhead	20%	184.37		
	Total Composite Rate		1,111.29		1,111.30
n)	DC Cable 25mm2 single Core				
	1. Labour				
	Electrician	0.02	Hrs @	125.00	2.50
	Helper	0.02	Hrs @	87.50	1.75
					4.25
	Contractor's profit & overhead	20%	0.85		
	Total Labour rate		5.10		5.10
	2. Material				
	DC Cable 25mm2 single Core	1.00	R.M @	310.00	310.00
	Accessories			2%	6.20
	Total				321.30
	Contractor's profit & overhead	20%	64.26		
	Total Composite Rate		390.66		390.65
o)	DC Cable 25mm2 two Core				
	1. Labour				
	Electrician	0.02	Hrs @	125.00	2.50
	Helper	0.02	Hrs @	87.50	1.75
					4.25
	Contractor's profit & overhead	20%	0.85		
	Total Labour rate		5.10		5.10
	2. Material				
	DC Cable 25mm2 two Core	1.00	R.M @	1203.75	1,203.75
	Accessories			2%	24.08
	Total				1,232.93
	Contractor's profit & overhead	20%	246.59		
	Total Composite Rate		1,484.61		1,484.60

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
	Item No. 31-4						
Each	Supply and Install, connect, test and commission of CCTV cameras (Chinese) complete with power cord, interconnecting cables and mounting brackets & accessories.						
	a) Indoor/Outdoor IP based static Camera with Full HD, 30-60 fps, 6 - 8 viewing profile, inbuilt IR, SD card supported, PoE.						
	1. Labour						
	Electrician	3.00	Hrs	@	125.00	375.00	
	Helper	3.00	Hrs	@	87.50	262.50	
						637.50	
	Contractor's profit & overhead				20%	127.50	
	Total Labour rate					765.00	765.00
	2. Material						
	Indoor/Outdoor IP based static Camera with Full HD, 30-60 fps, 6 - 8 viewing profile, inbuilt IR, SD card supported, PoE.	1.00	No.	@	55,500.00	55,500.00	
	Accessories				2%	1,110.00	
	Total					56,610.00	
	Contractor's profit & overhead				20%	11,322.00	
	Total Composite rate					68,697.00	68,697.00
Each	b) Indoor / Outdoor PTZ Camera: with Full HD, 45-60 fps, 6-8 viewing profile, 150 meter IR, SD-card supported						
	1. Labour						
	Electrician	3.00	Hrs	@	125.00	375.00	
	Helper	3.00	Hrs	@	87.50	262.50	
						637.50	
	Contractor's profit & overhead				20%	127.50	
	Total Labour rate					765.00	765.00
	2. Material						
	Wall / Ceiling Mounted, Indoor / Outdoor, Day/Night Color Dome PTZ Camera	1.00	No.	@	266,745.70	266,745.70	
	Accessories				2%	5,334.91	
	Total					272,080.61	
	Contractor's profit & overhead				20%	54,416.12	
	Total Composite rate					327,261.74	327,261.75
Each	c) Box Camera: with 32x zoom lens, Full HD, 30-60 fps, 6-8 viewing profile, SD card supported and external casing with 50 meter plus IR, PoE.						
	1. Labour						
	Electrician	3.00	Hrs	@	125.00	375.00	
	Helper	3.00	Hrs	@	87.50	262.50	
						637.50	
	Contractor's profit & overhead				20%	127.50	
	Total Labour rate					765.00	765.00
	2. Material						
	Wall bracket box Camera, Type PoE I.P camera	1.00	No.	@	121,982.80	121,982.80	
	Accessories				2%	2,439.66	
	Total					124,422.46	
	Contractor's profit & overhead				20%	24,884.49	
	Total Composite rate					150,071.95	150,071.95
	Item No. 31-5						
Each	a) Network Video Recorder (NVR): 64 channel, 400Mbps, with 4TB storage/HDD (Max. 12 storage/HDD support), complete with power cord, interconnecting cables and mounting brackets & accessories.						
	1. Labour						
	Electrician	16.00	Hrs	@	125.00	2,000.00	
	Helper	16.00	Hrs	@	87.50	1,400.00	
						3,400.00	
	Contractor's profit & overhead				20%	680.00	
	Total Labour rate					4,080.00	4,080.00
	2. Material						
	Network Video Recorder – 64 Channel	1.00	No.	@	1,045,000.00	1,045,000.00	
	Accessories				2%	20,900.00	
	Total					1,065,900.00	
	Contractor's profit & overhead				20%	213,180.00	
	Total Composite rate					1,283,160.00	1,283,160.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Each	b) Network Video Recorder (NVR): 16 channel, >320 Mbps with 2x3TB storage/HDD, complete with all cables and allied mounting brackets & accessories.				
	1. Labour				
	Electrician	16.00	Hrs @	125.00	2,000.00
	Helper	16.00	Hrs @	87.50	1,400.00
					3,400.00
	Contractor's profit & overhead			20%	680.00
	Total Labour rate				4,080.00
					4,080.00
	2. Material				
	Network Video Recorder – 16 Channel	1.00	No. @	405,000.00	405,000.00
	Accessories			2%	8,100.00
	Total				413,100.00
	Contractor's profit & overhead			20%	82,620.00
	Total Composite rate				499,800.00
					499,800.00
	Item No. 31-6				
Each	Supply and Install, connect, test and commission of Core i7, 6/7th Generation with 2GB graphics Card for Video Management system (VMS) with all allied accessories.				
	1. Labour				
	Electrician	8.00	Hrs @	125.00	1,000.00
	Helper	8.00	Hrs @	87.50	700.00
					1,700.00
	Contractor's profit & overhead			20%	340.00
	Total Labour rate				2,040.00
					2,040.00
	2. Material				
	Core i7, 6/7th Generation with 2GB graphics Card	1.00	No. @	110,000.00	110,000.00
	Accessories			2%	2,200.00
	Total				112,200.00
	Contractor's profit & overhead			20%	22,440.00
	Total Composite rate				136,680.00
					136,680.00
	Item No. 31-7				
Each	Supply & Installation of 24 port Layer-2 manageable PoE enabled switch with 4U Rack & patch panel.				
	1. Labour				
	Electrician	20.00	Hrs @	125.00	2,500.00
	Helper	20.00	Hrs @	87.50	1,750.00
					4,250.00
	Contractor's profit & overhead			20%	850.00
	Total Labour rate				5,100.00
					5,100.00
	2. Material				
	Fixed configuration PoE enabled manageable layer-2 switch	1.00	No. @	100,000.00	100,000.00
	Accessories			2%	2,000.00
	Total				102,000.00
	Contractor's profit & overhead			20%	20,400.00
	Total Composite rate				127,500.00
					127,500.00
	Item No. 31-8				
Each	Supply and Installation 24 port PoE based Layer-3 manageable aggregation switch with all allied accessories.				
	1. Labour				
	Electrician	20.00	Hrs @	125.00	2,500.00
	Helper	20.00	Hrs @	87.50	1,750.00
					4,250.00
	Contractor's profit & overhead			20%	850.00
	Total Labour rate				5,100.00
					5,100.00
	2. Material				
	24 port PoE based Layer-3 manageable aggregation switch	1.00	No. @	300,000.00	300,000.00
	Accessories			2%	6,000.00
	Total				306,000.00
	Contractor's profit & overhead			20%	61,200.00
	Total Composite rate				372,300.00
					372,300.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Each	Item No. 31-9				
	Supply and Installation 8 port PoE based Layer-2 manageable switch with all allied accessories.				
	1. Labour				
	Electrician	20.00	Hrs @	125.00	2,500.00
	Helper	20.00	Hrs @	87.50	1,750.00
					4,250.00
	Contractor's profit & overhead			20%	850.00
	Total Labour rate				5,100.00
					5,100.00
	2. Material				
	8 port PoE based Layer-2 manageable switch	1.00	No. @	59,791.30	59,791.30
	Accessories			2%	1,195.83
	Total				60,987.13
	Contractor's profit & overhead			20%	12,197.43
	Total Composite rate				78,284.55
					78,284.55
RM.	Item No. 31-10				
	Providing and fixing of road blocker of any length , 3.5 feet width , 2.5 feet height with Italian or equivalent power pack unit including accumulator but excluding Civil Works				
	1. Labour				
	Electrician	16.00	Hrs @	125.00	2,000.00
	Steel mistri	16.00	Hrs @	87.50	1,400.00
	Helper	32.00	Hrs @	87.50	2,800.00
					6,200.00
	Contractor's profit & overhead			20%	1,240.00
	Total Labour rate				7,440.00
					7,440.00
	2. Material				
	Road blocker 3.5 feet width , 2.5 feet height with Italian power pack unit including accumulator	1.00	No. @	478,333.33	478,333.33
	Accessories			2%	9,566.67
	Total				487,900.00
	Contractor's profit & overhead			20%	97,580.00
	Total Composite rate				592,920.00
					592,920.00
RM.	Item No. 31-11				
	Providing and fixing of Tyre Killer of any length, local made excluding Civil Works				
	1. Labour				
	Steel mistri	16.00	Hrs @	87.50	1,400.00
	Helper	32.00	Hrs @	87.50	2,800.00
					4,200.00
	Contractor's profit & overhead			20%	840.00
	Total Labour rate				5,040.00
					5,040.00
	2. Material				
	Tyre killer	1.00	No. @	45,000.00	45,000.00
	Accessories			2%	900.00
	Total				45,900.00
	Contractor's profit & overhead			20%	9,180.00
	Total Composite rate				60,120.00
					60,120.00
Nos.	Item No. 31-12				
	Providing and fixing Road boom barrier up to 4 m				
	• Hydraulic operator with opening and closing block including signal lights IP-24D				
	• Italian Brand Communello or approved equivalent				
	1. Labour				
	Electrician	16.00	Hrs @	125.00	2,000.00
	Steel mistri	16.00	Hrs @	87.50	1,400.00
	Helper	32.00	Hrs @	87.50	2,800.00
					6,200.00
	Contractor's profit & overhead			20%	1,240.00
	Total Labour rate				7,440.00
					7,440.00
	2. Material				
	Road boom barrier	1.00	No. @	385,000.00	385,000.00
	Accessories			2%	7,700.00
	Total				392,700.00
	Contractor's profit & overhead			20%	78,540.00
	Total Composite rate				478,680.00
					478,680.00

Unit	Description	Component Cost		Unit	Rate		
		(Rs)	(Rs)	(Rs)	(Rs)		
Item No. 31-13							
Nos.	Providing, Fixing and installing Access control system including networking with cat 6 cable in management system without pc but including electromagnetic lock system.						
1. Labour							
	Electrician	8.00	Hrs	@	125.00	1,000.00	
	Carpenter special	4.00	Hrs	@	125.00	500.00	
	Helper	8.00	Hrs	@	87.50	700.00	
						2,200.00	
	Contractor's profit & overhead				20%	440.00	
	Total Labour rate					2,640.00	2,640.00
2. Material							
	Door access control system	1.00	No.	@	55,000.00	55,000.00	
	Accessories				2%	1,100.00	
	Total					56,100.00	
	Contractor's profit & overhead				20%	11,220.00	
	Total Composite rate					69,960.00	69,960.00
Item No. 31-14							
Nos.	Providing and fixing of wakthrough gate of 33 zones of Garrett or its Koreaian approved equivalent including all accessories.						
1. Labour							
	Electrician	8.00	Hrs	@	125.00	1,000.00	
	Helper	8.00	Hrs	@	87.50	700.00	
						1,700.00	
	Contractor's profit & overhead				20%	340.00	
	Total Labour rate					2,040.00	2,040.00
2. Material							
	Wakthrough gate of 33 zones	1.00	No.	@	385,000.00	385,000.00	
	Total					385,000.00	
	Contractor's profit & overhead				20%	77,000.00	
	Total Composite rate					464,040.00	464,040.00
Item No. 31-15							
Sq.m	Providing and fixing Bullet protection film for Bullet proofing of Glass exclding the cost of glass.						
a)	(9mm pistol)						
1. Labour							
	Carpenter special	1.00	Hrs	@	125.00	125.00	
						125.00	
	Contractor's profit & overhead				20%	25.00	
	Total Labour rate					150.00	150.00
2. Material							
	Bullet protection film for Bullet proofing of Glass (9mm pistol)	1.00	No.	@	2,750.00	2,750.00	
	Total					2,750.00	
	Contractor's profit & overhead				20%	550.00	
	Total Composite rate					3,450.00	3,450.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 31-16					
Nos.	<p>Supply, Installation, testing and commissioning of imported brand new passenger/patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish, indoor type for ambient condition of 45 °C, capacity of 630 Kg/08 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 900mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices, Two (02) years of defect liability period with spare parts for two years complete in all respects as per specification and according to EN 81 standard compliance including civil works and electrical accessories. (Also Refer to Technical data sheet) including 17 % Sales Tax on Supply, 5% Custom Duty , 6% withholding tax & 2% other taxes</p>				
	1. Labour				
	Civil and Allied Works relevant to necessary adjustments which will be required during installation of new equipment.	1.00	Lumpsum @	200,000.00	200,000.00
	Contractor's profit & overhead			20%	40,000.00
	Total Labour rate				240,000.00
	2. Material				
	630 Kg/ 8 person capacity Lift	1.00	Nos. @	1,000,000.00	1,000,000.00
	Electrical & Ancillary Works for elevators , fans including outside DB, breakers cabling and other accessories etc. (Complete in all respect).	1.00	Lumpsum @	150,000.00	150,000.00
	3. Installation testing & Commissioning of Lift	1.00	Lumpsum @	754,000.00	754,000.00
	Total of 2 &3				1,904,000.00
	Contractor's profit & overhead			20%	380,800.00
	Total Composite rate				2,524,800.00
					2,524,800.00
Item No. 31-17					
Nos.	<p>Supply, Installation, testing and commissioning of imported brand new Passenger/Patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish, indoor type for ambient condition of 45 °C, capacity of 1000 Kg/13 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 900mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices, Two (02) years of defect liability period with spare parts for two years complete in all respects as per specification and according to EN 81 standard compliance including civil works and electrical assessories. (Also Refer to Technical data sheet).</p>				
	1. Labour				
	Civil and Allied Works relevant to necessary adjustments which will be required during installation of new equipment.	1.00	Lumpsum @	200,000.00	200,000.00
	Contractor's profit & overhead			20%	40,000.00
	Total Labour rate				240,000.00
	2. Material				
	1000 Kg/ 13 person capacity Lift	1.00	Nos. @	1,050,000.00	1,050,000.00
	Electrical & Ancillary Works for elevators , fans including outside DB, breakers cabling and other accessories etc. (Complete in all respect).	1.00	Lumpsum @	150,000.00	150,000.00
	3. Installation testing & Commissioning of Lift	1.00	Lumpsum @	754,000.00	754,000.00
	Total of 2 &3				1,954,000.00
	Contractor's profit & overhead			20%	390,800.00
	Total Composite rate				2,584,800.00
					2,584,800.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 31-18					
Nos.	<p>Supply, Installation, testing and commissioning of imported brand new passenger/patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish, indoor type for ambient condition of 45 °C, capacity of 1275 Kg/17 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 1100mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices, Two (02) Years of defect liability period with spare parts for use of two years complete in all respects as per specification and according to EN 81 standard compliance including civil works and electrical assessorries. (Also Refer to Technical data sheet)</p>				
	1. Labour				
	Civil and Allied Works relevant to necessary adjustments which will be required during installation of new equipment.	1.00	Lumpsum @	200,000.00	200,000.00
	Contractor's profit & overhead			20%	40,000.00
	Total Labour rate				240,000.00
	2. Material				
	1275 Kg/ 17 person capacity Lift	1.00	Nos. @	1,350,000.00	1,350,000.00
	Electrical & Ancillary Works for elevators , fans including outside DB, breakers cabling and other accessories etc. (Complete in all respect).	1.00	Lumpsum @	150,000.00	150,000.00
	3. Installation testing & Commissioning of Lift	1.00	Lumpsum @	754,000.00	754,000.00
	Total of 2 &3				2,254,000.00
	Contractor's profit & overhead			20%	220,800.00
	Total Composite rate				2,714,800.00
Item No. 31-19					
Nos.	<p>Supply, Installation, testing and commissioning of imported brand new passenger/patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish, indoor type for ambient condition of 45 °C, capacity of 1600 Kg/21 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 1300mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices, Two (02) Years of defect liability period with spare parts for two years complete in all respects as per specification and according to EN 81 standard compliance compliance including civil works and electrical assessorries. (Also Refer to Technical data sheet) including 17 % Sales Tax on Supply, 5% Custom Duty , 6% withholding tax & 2% other taxes</p>				
	1. Labour				
	Civil and Allied Works relevant to necessary adjustments which will be required during installation of new equipment.	1.00	Lumpsum @	200,000.00	200,000.00
	Contractor's profit & overhead			20%	40,000.00
	Total Labour rate				240,000.00
	2. Material				
	1600 Kg/ 21 person capacity Lift	1.00	Nos. @	1,400,000.00	1,400,000.00
	Electrical & Ancillary Works for elevators , fans including outside DB, breakers cabling and other accessories etc. (Complete in all respect).	1.00	Lumpsum @	150,000.00	150,000.00
	3. Installation testing & Commissioning of Lift	1.00	Lumpsum @	754,000.00	754,000.00
	Total of 2 &3				2,304,000.00
	Contractor's profit & overhead			20%	220,800.00
	Total Composite rate				2,764,800.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
Item No. 31-20					
Nos.	<p>Supply, Installation, testing and commissioning of imported brand new passenger/patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish, indoor type for ambient condition of 45 °C, capacity of 2000 Kg/26 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 1300mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices, Two (02) Years of defect liability period with spare parts for two years complete in all respects as per specification and according to EN 81 standard compliance compliance including civil works and electrical accessories. (Also Refer to Technical data sheet) including 17 % Sales Tax on Supply, 5% Custom Duty, 6% withholding tax & 2% other taxes</p>				
	1. Labour				
	Civil and Allied Works relevant to necessary adjustments which will be required during installation of new equipment.	1.00	Lumpsum @	200,000.00	200,000.00
	Contractor's profit & overhead			20%	40,000.00
	Total Labour rate				240,000.00
	2. Material				
	2000 Kg/ 26 person capacity Lift	1.00	Nos. @	1,450,000.00	1,450,000.00
	Electrical & Ancillary Works for elevators, fans including outside DB, breakers cabling and other accessories etc. (Complete in all respect).	1.00	Lumpsum @	150,000.00	150,000.00
	3. Installation testing & Commissioning of Lift	1.00	Lumpsum @	754,000.00	754,000.00
	Total of 2 & 3				2,354,000.00
	Contractor's profit & overhead			20%	220,800.00
	Total Composite rate				2,814,800.00
	2,814,800.00				
Item No. 31 - 21					
Sludge removal in drains and disposal with 1 Km					
	1. Labour				
	Sanitary Worker	0.39	Hrs @	110	42.90
	Total				42.90
	Contractor's profit & overhead			20%	3.50
	Total Labour Rate				46.40
	3. Equipment				
	Excavator	0.04	Hrs @	2500	100.00
	Tractor with trolley	0.15	Hrs @	544	81.60
	Total				181.60
	Contractor's profit & overheads			20%	36.32
	Total				217.92
	Total Composite rate				264.32
	264.30				
Item No. 31-22					
Supply and install 10 Amp DC Circuit Breaker					
No.	a) Single Pole Circuit Breaker 10 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
	Total				200.00
	Contractor's profit & overhead			20%	40.00
	Total Labour rate				240.00
	2. Material				
	Single Pole Circuit Breaker 10 Ampere	1.00	No. @	1,300.00	1,300.00
	Accessories			5%	65.00
	Total				1,365.00
	3. Tools & Plant			1%	13.65
	Total				1,378.65

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	275.73		
	Total Composite rate		1,894.38		1,894
b)	Single Pole Circuit Breaker 16 Ampere				
1. Labour					
Electrician	1.00 Hrs @	125.00	125.00		
Helper	1.00 Hrs @	75.00	75.00		
			200.00		
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
2. Material					
Single Pole Circuit Breaker 16 Ampere	1.00 No. @	1,300.00	1,300.00		
Accessories		5%	65.00		
			1,365.00		
3. Tools & Plant					
Total		1%	13.65		
			1,378.65		
	Contractor's profit & overhead	20%	275.73		
	Total Composite rate		1,894.38		1,894
c)	Single Pole Circuit Breaker 20 Ampere				
1. Labour					
Electrician	1.00 Hrs @	125.00	125.00		
Helper	1.00 Hrs @	75.00	75.00		
			200.00		
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
2. Material					
Single Pole Circuit Breaker 20 Ampere	1.00 No. @	1,300.00	1,300.00		
Accessories		5%	65.00		
			1,365.00		
3. Tools & Plant					
Total		1%	13.65		
			1,378.65		
	Contractor's profit & overhead	20%	275.73		
	Total Composite rate		1,894.38		1,894
d)	Single Pole Circuit Breaker 25 Ampere				
1. Labour					
Electrician	1.00 Hrs @	125.00	125.00		
Helper	1.00 Hrs @	75.00	75.00		
			200.00		
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
2. Material					
Single Pole Circuit Breaker 25 Ampere	1.00 No. @	1,400.00	1,400.00		
Accessories		5%	70.00		
			1,470.00		
3. Tools & Plant					
Total		1%	14.70		
			1,484.70		
	Contractor's profit & overhead	20%	296.94		
	Total Composite rate		2,021.64		2,022
e)	Single Pole Circuit Breaker 40 Ampere				
1. Labour					
Electrician	1.00 Hrs @	125.00	125.00		
Helper	1.00 Hrs @	75.00	75.00		
			200.00		
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
2. Material					
Single Pole Circuit Breaker 40 Ampere	1.00 No. @	1,500.00	1,500.00		
Accessories		5%	75.00		
			1,575.00		
3. Tools & Plant					
Total		1%	15.75		
			1,590.75		
	Contractor's profit & overhead	20%	318.15		
	Total Composite rate		2,148.90		2,149
f)	Single Pole Circuit Breaker 50 Ampere				
1. Labour					
Electrician	1.00 Hrs @	125.00	125.00		
Helper	1.00 Hrs @	75.00	75.00		
			200.00		
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
2. Material					
Single Pole Circuit Breaker 50 Ampere	1.00 No. @	1,800.00	1,800.00		
Accessories		5%	90.00		
			1,890.00		
3. Tools & Plant					
Total		1%	18.90		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total		1,908.90		
	Contractor's profit & overhead	20%	381.78		
	Total Composite rate		2,530.68		2,531
g)	Single Pole Circuit Breaker 63 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	Single Pole Circuit Breaker 63 Ampere	1.00	No. @	1,800.00	1,800.00
	Accessories			5%	90.00
					1,890.00
	3. Tools & Plant			1%	18.90
	Total				1,908.90
	Contractor's profit & overhead	20%	381.78		
	Total Composite rate		2,530.68		2,531
h)	2 Pole Circuit Breaker 10 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	2 Pole Circuit Breaker 10 Ampere	1.00	No. @	2,100.00	2,100.00
	Accessories			5%	105.00
					2,205.00
	3. Tools & Plant			1%	22.05
	Total				2,227.05
	Contractor's profit & overhead	20%	445.41		
	Total Composite rate		2,912.46		2,912
l)	2 Pole Circuit Breaker 16 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	2 Pole Circuit Breaker 16 Ampere	1.00	No. @	2,100.00	2,100.00
	Accessories			5%	105.00
					2,205.00
	3. Tools & Plant			1%	22.05
	Total				2,227.05
	Contractor's profit & overhead	20%	445.41		
	Total Composite rate		2,912.46		2,912
J)	2 Pole Circuit Breaker 20 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	2 Pole Circuit Breaker 20 Ampere	1.00	No. @	2,100.00	2,100.00
	Accessories			5%	105.00
					2,205.00
	3. Tools & Plant			1%	22.05
	Total				2,227.05
	Contractor's profit & overhead	20%	445.41		
	Total Composite rate		2,912.46		2,912
K)	2 Pole Circuit Breaker 32 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	2 Pole Circuit Breaker 32 Ampere	1.00	No. @	3,000.00	3,000.00
	Accessories			5%	150.00
					3,150.00
	3. Tools & Plant			1%	31.50

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total		3,181.50		
	Contractor's profit & overhead	20%	636.30		
	Total Composite rate		4,057.80		4,058
L)	2 Pole Circuit Breaker 40 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	2 Pole Circuit Breaker 40 Ampere	1.00	No. @	3,600.00	3,600.00
	Accessories			5%	180.00
					3,780.00
	3. Tools & Plant			1%	37.80
	Total				3,817.80
	Contractor's profit & overhead	20%	763.56		
	Total Composite rate		4,821.36		4,821
M)	2 Pole Circuit Breaker 50 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	2 Pole Circuit Breaker 50 Ampere	1.00	No. @	3,600.00	3,600.00
	Accessories			5%	180.00
					3,780.00
	3. Tools & Plant			1%	37.80
	Total				3,817.80
	Contractor's profit & overhead	20%	763.56		
	Total Composite rate		4,821.36		4,821
N)	2 Pole Circuit Breaker 63 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	2 Pole Circuit Breaker 63 Ampere	1.00	No. @	3,700.00	3,700.00
	Accessories			5%	185.00
					3,885.00
	3. Tools & Plant			1%	38.85
	Total				3,923.85
	Contractor's profit & overhead	20%	784.77		
	Total Composite rate		4,948.62		4,949
O)	3 Pole Circuit Breaker 10 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	3 Pole Circuit Breaker 10 Ampere	1.00	No. @	3,400.00	3,400.00
	Accessories			5%	170.00
					3,570.00
	3. Tools & Plant			1%	35.70
	Total				3,605.70
	Contractor's profit & overhead	20%	721.14		
	Total Composite rate		4,566.84		4,567
P)	3 Pole Circuit Breaker 16 Ampere				
	1. Labour				
	Electrician	1.00	Hrs @	125.00	125.00
	Helper	1.00	Hrs @	75.00	75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	3 Pole Circuit Breaker 16 Ampere	1.00	No. @	3,400.00	3,400.00
	Accessories			5%	170.00
					3,570.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	3. Tools & Plant	1%	35.70		
	Total		3,605.70		
	Contractor's profit & overhead	20%	721.14		
	Total Composite rate		4,566.84		4,567
Q)	3 Pole Circuit Breaker 20 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00 125.00
	Helper	1.00	Hrs	@	75.00 75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	3 Pole Circuit Breaker 20 Ampere	1.00	No.	@	3,400.00 3,400.00
	Accessories				5% 170.00
					3,570.00
	3. Tools & Plant				1% 35.70
	Total				3,605.70
	Contractor's profit & overhead	20%	721.14		
	Total Composite rate		4,566.84		4,567
R)	3 Pole Circuit Breaker 32 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00 125.00
	Helper	1.00	Hrs	@	75.00 75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	3 Pole Circuit Breaker 32 Ampere	1.00	No.	@	3,400.00 3,400.00
	Accessories				5% 170.00
					3,570.00
	3. Tools & Plant				1% 35.70
	Total				3,605.70
	Contractor's profit & overhead	20%	721.14		
	Total Composite rate		4,566.84		4,567
S)	3 Pole Circuit Breaker 40 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00 125.00
	Helper	1.00	Hrs	@	75.00 75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	3 Pole Circuit Breaker 40 Ampere	1.00	No.	@	3,400.00 3,400.00
	Accessories				5% 170.00
					3,570.00
	3. Tools & Plant				1% 35.70
	Total				3,605.70
	Contractor's profit & overhead	20%	721.14		
	Total Composite rate		4,566.84		4,567
T)	3 Pole Circuit Breaker 50 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00 125.00
	Helper	1.00	Hrs	@	75.00 75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	3 Pole Circuit Breaker 50 Ampere	1.00	No.	@	3,400.00 3,400.00
	Accessories				5% 170.00
					3,570.00
	3. Tools & Plant				1% 35.70
	Total				3,605.70
	Contractor's profit & overhead	20%	721.14		
	Total Composite rate		4,566.84		4,567
U)	3 Pole Circuit Breaker 63 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00 125.00
	Helper	1.00	Hrs	@	75.00 75.00
					200.00
	Contractor's profit & overhead	20%	40.00		
	Total Labour rate		240.00		240
	2. Material				
	3 Pole Circuit Breaker 63 Ampere	1.00	No.	@	3,400.00 3,400.00
	Accessories				5% 170.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	3. Tools & Plant		3,570.00		
	Total	1%	35.70		
	Contractor's profit & overhead		3,605.70		
	Total Composite rate	20%	721.14		
			4,566.84		4,567
V)	4 Pole Circuit Breaker 10 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00
	Helper	1.00	Hrs	@	75.00
					200.00
	Contractor's profit & overhead		20%		40.00
	Total Labour rate				240.00
					240
	2. Material				
	4 Pole Circuit Breaker 10 Ampere	1.00	No.	@	6,240.00
	Accessories				5%
					312.00
					6,552.00
	3. Tools & Plant				1%
	Total				65.52
	Contractor's profit & overhead		20%		6,617.52
	Total Composite rate				1,323.50
					8,181.02
					8,181
X)	4 Pole Circuit Breaker 16 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00
	Helper	1.00	Hrs	@	75.00
					200.00
	Contractor's profit & overhead		20%		40.00
	Total Labour rate				240.00
					240
	2. Material				
	4 Pole Circuit Breaker 16 Ampere	1.00	No.	@	6,240.00
	Accessories				5%
					312.00
					6,552.00
	3. Tools & Plant				1%
	Total				65.52
	Contractor's profit & overhead		20%		6,617.52
	Total Composite rate				1,323.50
					8,181.02
					8,181
Y)	4 Pole Circuit Breaker 20 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00
	Helper	1.00	Hrs	@	75.00
					200.00
	Contractor's profit & overhead		20%		40.00
	Total Labour rate				240.00
					240
	2. Material				
	4 Pole Circuit Breaker 20 Ampere	1.00	No.	@	6,240.00
	Accessories				5%
					312.00
					6,552.00
	3. Tools & Plant				1%
	Total				65.52
	Contractor's profit & overhead		20%		6,617.52
	Total Composite rate				1,323.50
					8,181.02
					8,181
Z)	4 Pole Circuit Breaker 32 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00
	Helper	1.00	Hrs	@	75.00
					200.00
	Contractor's profit & overhead		20%		40.00
	Total Labour rate				240.00
					240
	2. Material				
	4 Pole Circuit Breaker 32 Ampere	1.00	No.	@	7,000.00
	Accessories				5%
					350.00
					7,350.00
	3. Tools & Plant				1%
	Total				73.50
	Contractor's profit & overhead		20%		7,423.50
	Total Composite rate				1,484.70
					9,148.20
					9,148
ZA)	4 Pole Circuit Breaker 40 Ampere				
	1. Labour				
	Electrician	1.00	Hrs	@	125.00
	Helper	1.00	Hrs	@	75.00
					200.00
	Contractor's profit & overhead		20%		40.00
	Total Labour rate				240.00
					240
	2. Material				

Unit	Description			Component Cost	Unit	Rate
				(Rs)	(Rs)	
	4 Pole Circuit Breaker 40 Ampere	1.00	No.	@	7,000.00	7,000.00
	Accessories				5%	350.00
						7,350.00
	3. Tools & Plant				1%	73.50
	Total					7,423.50
	Contractor's profit & overhead				20%	1,484.70
	Total Composite rate					9,148.20
						9,148
ZB)	4 Pole Circuit Breaker 50 Ampere					
	1. Labour					
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 50 Ampere	1.00	No.	@	7,000.00	7,000.00
	Accessories				5%	350.00
						7,350.00
	3. Tools & Plant				1%	73.50
	Total					7,423.50
	Contractor's profit & overhead				20%	1,484.70
	Total Composite rate					9,148.20
						9,148
ZC)	4 Pole Circuit Breaker 63 Ampere					
	1. Labour					
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 63 Ampere	1.00	No.	@	7,000.00	7,000.00
	Accessories				5%	350.00
						7,350.00
	3. Tools & Plant				1%	73.50
	Total					7,423.50
	Contractor's profit & overhead				20%	1,484.70
	Total Composite rate					9,148.20
						9,148
ZD)	4 Pole Circuit Breaker 70-100 Ampere (70KV)					
	1. Labour					
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 70-100 Ampere (70KV)	1.00	No.	@	49000.00	49,000.00
	Accessories				5%	2,450.00
						51,450.00
	3. Tools & Plant				1%	514.50
	Total					51,964.50
	Contractor's profit & overhead				20%	10,392.90
	Total Composite rate					62,597.40
						62,597
ZE)	4 Pole Circuit Breaker 100-160 Ampere (70KV)					
	1. Labour					
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 100-160 Ampere (70KV)	1.00	No.	@	60000.00	60,000.00
	Accessories				5%	3,000.00
						63,000.00
	3. Tools & Plant				1%	630.00
	Total					63,630.00
	Contractor's profit & overhead				20%	12,726.00
	Total Composite rate					76,596.00
						76,596
ZF)	4 Pole Circuit Breaker 160-250 Ampere (70KV)					
	1. Labour					

Unit	Description			Component Cost	Unit	Rate
				(Rs)	(Rs)	
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 160-250 Ampere (70KV)	1.00	No.	@	91000.00	91,000.00
	Accessories				5%	4,550.00
						95,550.00
	3. Tools & Plant				1%	955.50
	Total					96,505.50
	Contractor's profit & overhead				20%	19,301.10
	Total Composite rate					116,046.60
						116,047
ZG)	4 Pole Circuit Breaker 320-400 Ampere (70KV)					
	1. Labour					
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 320-400 Ampere (70KV)	1.00	No.	@	138000.00	138,000.00
	Accessories				5%	6,900.00
						144,900.00
	3. Tools & Plant				1%	1,449.00
	Total					146,349.00
	Contractor's profit & overhead				20%	29,269.80
	Total Composite rate					175,858.80
						175,859
ZH)	4 Pole Circuit Breaker 500-630 Ampere (70KV)					
	1. Labour					
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 500-630 Ampere (70KV)	1.00	No.	@	181000.00	181,000.00
	Accessories				5%	9,050.00
						190,050.00
	3. Tools & Plant				1%	1,900.50
	Total					191,950.50
	Contractor's profit & overhead				20%	38,390.10
	Total Composite rate					230,580.60
						230,581
ZI)	4 Pole Circuit Breaker 640-800 Ampere (70KV)					
	1. Labour					
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 640-800 Ampere (70KV)	1.00	No.	@	330000.00	330,000.00
	Accessories				5%	16,500.00
						346,500.00
	3. Tools & Plant				1%	3,465.00
	Total					349,965.00
	Contractor's profit & overhead				20%	69,993.00
	Total Composite rate					420,198.00
						420,198
ZJ)	4 Pole Circuit Breaker 800-1000 Ampere (70KV)					
	1. Labour					
	Electrician	1.00	Hrs	@	125.00	125.00
	Helper	1.00	Hrs	@	75.00	75.00
						200.00
	Contractor's profit & overhead				20%	40.00
	Total Labour rate					240.00
						240
	2. Material					
	4 Pole Circuit Breaker 800-1000 Ampere (70KV)	1.00	No.	@	332000.00	332,000.00
	Accessories				5%	16,600.00
						348,600.00
	3. Tools & Plant				1%	3,486.00
	Total					352,086.00
	Contractor's profit & overhead				20%	70,417.20
	Total Composite rate					422,743.20
						422,743

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
No.	Item No. 31-23				
	Supply and install DC LED Bulb 5 Watt including accessories, installation materials. Philips type or approved equivalent				
	Detail of cost for 1Nos.				
	1. Labour				
	Electrician	1.00	Hrs	@	112.00 112.00
	Helper	1.00	Hrs	@	57.75 57.75
					169.75
	Contractor's profit & overhead			20%	42.44
	Total Labour rate				212.19 212
	2. Material				
	DC LED Light Bulb 12V-5w	1.00	No.	@	600.00 600.00
	Contractor's profit & overhead			20%	120.00
	Total Composite rate				932.19 932
No.	Item No. 31-24				
	Supply and install DC LED Bulb 10 Watt including installation				
	Detail of cost for 1Nos.				
	1. Labour				
	Electrician	1.00	Hrs	@	112.00 112.00
	Helper	1.00	Hrs	@	57.75 57.75
					169.75
	Contractor's profit & overhead			20%	42.44
	Total Labour rate				212.19 212
	2. Material				
	DC LED Light Bulb 12V-10w	1.00	No.	@	1000.00 1,000.00
	Contractor's profit & overhead			20%	200.00
	Total Composite rate				1,412.19 1,412
No.	Item No. 31-25				
	Supply and install DC Fan 15-20 Watt including installation				
	Detail of cost for 1Nos.				
	1. Labour				
	Electrician	1.00	Hrs	@	112.00 112.00
	Helper	1.00	Hrs	@	57.75 57.75
					169.75
	Contractor's profit & overhead			20%	42.44
	Total Labour rate				212.19 212
	2. Material				
	DC Fans 12 V (15-20 W) ON OFF Switches	1.00	No.	@	7000.00 7,000.00
	Contractor's profit & overhead			20%	1,400.00
	Total Composite rate				8,612.19 8,612
	Item No. 31-26				
	Supplying G.I. PVC Flexible pipe of approved make including the cost of specials.				
	a) 25 mm diameter				
	1. Labour				
	Electrician	0.05	Hrs	@	112.00 5.60
	Helper	0.05	Hrs	@	57.75 2.89
					8.49
	Contractor's profit & overhead			20%	2.12
	Total Labour rate				10.61 11
	2. Material				
	Galvanized iron PVC coated flexible pipe for solar street	1.00	R.M.	@	150.00 150.00
	Total Composite rate				160.61 161
Each	Item No. 31-27				
	a) Provide, install, test and commission recessed wall mounting type distribution board fabricated from 16 SWG steel sheet, powder coated with approved color 2'x2'x1.5'				
	1. Labour				
	Electrician	2.00	Hrs	@	125.00 250.00
	Helper	2.00	Hrs	@	75.00 150.00
					400.00
	Contractor's profit & overhead			20%	80.00
	Total Labour rate				480.00 480

Unit	Description			Component Cost	Unit	Rate
				(Rs)	(Rs)	
	2. Material					
	Electric - Distribution box casing 16SWG	1.00	No.	@	4,200.00	4,200.00
	Testing & commissioning				5%	210.00
						4,410.00
	Contractor's profit & overhead				20%	882.00
	Total Composite rate					5,772.00
						5,772
	Item No. 31-28					
Per Watt	a) Solar Panel with aluminum frame Certified, Sealed Maintenance Free Solar Battery (free Li-ion), High efficiency automatic solar charge controller with programmable lighting ON and OFF time, auto operation from dusk to dawn(Built in), High efficiency Light Emitting Diode light with weather proof casing, Protection class IP65 with aluminum heat sink, Iron made, rust proof, adjustable mounting structure for Solar Panel with mounting arrangements on pole(one in Quantity), Steel Nails / Screws / Nut Bolts/ Cable Tie's/ Insulation tape /Connectors/ etc. excluding pole and civil works.					
	1. Labour					
	Electrician	0.60	Hrs	@	125.00	75.00
	Helper	0.60	Hrs	@	75.00	45.00
						120.00
	Contractor's profit & overhead				20%	24.00
	Total Labour rate					144.00
						144
	2. Material					
	All in one Solar Street Light	1.00	per watt	@	3,150.00	3,150.00
	Testing & commissioning				5%	157.50
						3,307.50
	Contractor's profit & overhead				20%	661.50
	Total Composite rate					4,113.00
						4,113
	Item No. 31-29					
	Providing and fixing at Site of Solar Submersible Pumpset including Motor of KSB, Alarko, Grandfos or approved equivalent (similar specifications), complete in all respects including all taxes.					
	a) Solar Submersible PumpSet, 4HP					
	1. Labour					
	Plumber	4.00	Hrs	@	125.00	500.00
	Electrician	2.00	Hrs	@	125.00	250.00
	Electrician helper	4.00	Hrs	@	87.50	350.00
						1,100.00
	Contractor's profit & overhead				20%	220.00
	Total Labour rate					1,320.00
						1320.00
	2. Material					
	Solar Submersible Pumpset,4HP	1.00	Nos.	@	309,810	309,809.70
	Contractor's profit & overhead				20%	61,961.94
	Total Composite rate					373,091.64
						373,092
	b) Solar Submersible PumpSet, 5HP					
	1. Labour					
	Plumber	4.00	Hrs	@	125.00	500.00
	Electrician	2.00	Hrs	@	125.00	250.00
	Electrician helper	4.00	Hrs	@	87.50	350.00
						1,100.00
	Contractor's profit & overhead				20%	220.00
	Total Labour rate					1,320.00
						1320.00
	2. Material					
	Solar Submersible Pumpset, 5HP	1.00	Nos.	@	374,205	374,204.85
	Contractor's profit & overhead				20%	74,840.97
	Total Composite rate					450,365.82
						450,366
	c) Solar Submersible PumpSet, 7.5HP					
	1. Labour					
	Plumber	4.00	Hrs	@	125.00	500.00
	Electrician	2.00	Hrs	@	125.00	250.00
	Electrician helper	4.00	Hrs	@	87.50	350.00
						1,100.00
	Contractor's profit & overhead				20%	220.00
	Total Labour rate					1,320.00
						1320.00
	2. Material					
	Solar Submersible Pumpset, 7.5HP	1.00	Nos.	@	472,746	472,746.45
	Contractor's profit & overhead				20%	94,549.29
	Total Composite rate					568,615.74
						568,616

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
d)	Solar Submersible PumpSet, 10HP				
	1. Labour				
	Plumber	8.00	Hrs @	125.00	1,000.00
	Electrician	4.00	Hrs @	125.00	500.00
	Electrician helper	8.00	Hrs @	87.50	700.00
					2,200.00
	Contractor's profit & overhead			20%	440.00
	Total Labour rate				2,640.00
					2640.00
	2. Material				
	Solar Submersible Pumpset, 10HP	1.00	Nos. @	556,688	556,688.10
	Contractor's profit & overhead			20%	111,337.62
	Total Composite rate				670,665.72
					670,666
e)	Solar Submersible PumpSet, 12.5HP				
	1. Labour				
	Plumber	8.00	Hrs @	125.00	1,000.00
	Electrician	4.00	Hrs @	125.00	500.00
	Electrician helper	8.00	Hrs @	87.50	700.00
					2,200.00
	Contractor's profit & overhead			20%	440.00
	Total Labour rate				2,640.00
					2640.00
	2. Material				
	Solar Submersible Pumpset, 12.5 HP	1.00	Nos. @	617,447	617,446.80
	Contractor's profit & overhead			20%	123,489.36
	Total Composite rate				743,576.16
					743,576
f)	Solar Submersible PumpSet, 15HP				
	1. Labour				
	Plumber	8.00	Hrs @	125.00	1,000.00
	Electrician	4.00	Hrs @	125.00	500.00
	Electrician helper	8.00	Hrs @	87.50	700.00
					2,200.00
	Contractor's profit & overhead			20%	440.00
	Total Labour rate				2,640.00
					2640.00
	2. Material				
	Solar Submersible Pumpset, 15 HP	1.00	Nos. @	699,280	699,280.05
	Contractor's profit & overhead			20%	139,856.01
	Total Composite rate				841,776.06
					841,776
g)	Solar Submersible PumpSet, 17.5HP				
	1. Labour				
	Plumber	8.00	Hrs @	125.00	1,000.00
	Electrician	4.00	Hrs @	125.00	500.00
	Electrician helper	8.00	Hrs @	87.50	700.00
					2,200.00
	Contractor's profit & overhead			20%	440.00
	Total Labour rate				2,640.00
					2640.00
	2. Material				
	Solar Submersible Pumpset, 17.5 HP	1.00	Nos. @	791,496	791,495.65
	Contractor's profit & overhead			20%	158,299.13
	Total Composite rate				952,434.78
					952,435
h)	Solar Submersible PumpSet, 20HP				
	1. Labour				
	Plumber	8.00	Hrs @	125.00	1,000.00
	Electrician	4.00	Hrs @	125.00	500.00
	Electrician helper	8.00	Hrs @	87.50	700.00
					2,200.00
	Contractor's profit & overhead			20%	440.00
	Total Labour rate				2,640.00
					2640.00
	2. Material				
	Solar Submersible Pumpset, 20 HP	1.00	Nos. @	857,368	857,368.30
	Contractor's profit & overhead			20%	171,473.66
	Total Composite rate				1,031,481.96
					1,031,482
i)	Solar Submersible PumpSet, 25HP				
	1. Labour				
	Plumber	8.00	Hrs @	125.00	1,000.00
	Electrician	4.00	Hrs @	125.00	500.00
	Electrician helper	8.00	Hrs @	87.50	700.00
					2,200.00
	Contractor's profit & overhead			20%	440.00
	Total Labour rate				2,640.00
					2640.00

Unit	Description	Component Cost		Unit	Rate	
		(Rs)	(Rs)	(Rs)	(Rs)	
	2. Material					
	Solar Submersible Pumpset, 25 HP	1.00	Nos.	@	938,084	938,084.45
	Contractor's profit & overhead				20%	187,616.89
	Total Composite rate					1,128,341.34
						1,128,341
	j) Solar Submersible PumpSet, 30HP					
	1. Labour					
	Plumber	8.00	Hrs	@	125.00	1,000.00
	Electrician	4.00	Hrs	@	125.00	500.00
	Electrician helper	8.00	Hrs	@	87.50	700.00
						2,200.00
	Contractor's profit & overhead				20%	440.00
	Total Labour rate					2,640.00
						2640.00
	2. Material					
	Solar Submersible Pumpset, 30 HP	1.00	Nos.	@	1,134,478	1,134,478.05
	Contractor's profit & overhead				20%	226,895.61
	Total Composite rate					1,364,013.66
						1,364,014
	k) Solar Submersible PumpSet, 40HP					
	1. Labour					
	Plumber	8.00	Hrs	@	125.00	1,000.00
	Electrician	4.00	Hrs	@	125.00	500.00
	Electrician helper	8.00	Hrs	@	87.50	700.00
						2,200.00
	Contractor's profit & overhead				20%	440.00
	Total Labour rate					2,640.00
						2640.00
	2. Material					
	Solar Submersible Pumpset, 40 HP	1.00	Nos.	@	1,300,000	1,300,000.00
	Contractor's profit & overhead				20%	260,000.00
	Total Composite rate					1,562,640.00
						1,562,640

Item No. 31-30

Providing and fixing at Site Solar Pump Controller (MPPT), complete in all respects including all taxes.

a) Solar Pump Controller (MPPT) for KSB, Alarko, Grandfos or approved equivalent pumps (similar specifications)

	1. Labour					
	Electrician	0.01	Hrs	@	125.00	1.25
	Electrician helper	0.01	Hrs	@	87.50	0.88
						2.13
	Contractor's profit & overhead				20%	0.43
	Total Labour rate					2.55
						2.55
	2. Material					
	Solar Pump Controller per Watt	1.00	Nos.	@	14	14.00
	Contractor's profit & overhead				20%	2.80
	Total Composite rate					19.35
						19

b) Solar Pump Controller for Chinese Pumps

	1. Labour					
	Electrician	0.01	Hrs	@	125.00	1.25
	Electrician helper	0.01	Hrs	@	87.50	0.88
						2.13
	Contractor's profit & overhead				20%	0.43
	Total Labour rate					2.55
						2.55
	2. Material					
	Solar Pump Controller per Watt	1.00	Nos.	@	10	10.00
	Contractor's profit & overhead				20%	2.00
	Total Composite rate					14.55
						15

Item No. 31-31

Providing and fixing at Site of Solar Submersible Pumpset including Motor of KSB, Alarko, Grandfos or approved equivalent (similar specifications), complete in all respects including all taxes.

a) Solar DC Submersible PumpSet, 0.5HP

	1. Labour					
	Plumber	4.00	Hrs	@	125.00	500.00
	Electrician	2.00	Hrs	@	125.00	250.00
	Electrician helper	4.00	Hrs	@	87.50	350.00
						1,100.00
	Contractor's profit & overhead				20%	220.00

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Total Labour rate		1,320.00		1320.00
	2. Material				
	Solar DC Pumps 0.5 HP	1.00	Nos.	@	30,000.00
	Contractor's profit & overhead			20%	6,000.00
	Total Composite rate				37,320.00
b)	Solar DC Submersible PumpSet, 1HP				
	1. Labour				
	Plumber	4.00	Hrs	@	125.00
	Electrician	2.00	Hrs	@	125.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					1,100.00
	Contractor's profit & overhead			20%	220.00
	Total Labour rate				1320.00
	2. Material				
	Solar DC Pumps 1 HP	1.00	Nos.	@	45,000.00
	Contractor's profit & overhead			20%	9,000.00
	Total Composite rate				55,320.00
c)	Solar DC Submersible PumpSet, 2HP				
	1. Labour				
	Plumber	4.00	Hrs	@	125.00
	Electrician	2.00	Hrs	@	125.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					1,100.00
	Contractor's profit & overhead			20%	220.00
	Total Labour rate				1320.00
	2. Material				
	Solar DC Pumps 2 HP	1.00	Nos.	@	60,000.00
	Contractor's profit & overhead			20%	12,000.00
	Total Composite rate				73,320.00
d)	Solar DC Submersible PumpSet, 3HP				
	1. Labour				
	Plumber	4.00	Hrs	@	125.00
	Electrician	2.00	Hrs	@	125.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					1,100.00
	Contractor's profit & overhead			20%	220.00
	Total Labour rate				1320.00
	2. Material				
	Solar DC Pumps 3 HP	1.00	Nos.	@	90,000.00
	Contractor's profit & overhead			20%	18,000.00
	Total Composite rate				109,320.00
	Item No. 31-32				
	Providing and fixing at Site of Certified Solar Submersible Pumpset including Motor of Chinese Make, complete in all respects including all taxes.				
a)	Solar Submersible PumpSet, 4HP				
	1. Labour				
	Plumber	4.00	Hrs	@	125.00
	Electrician	2.00	Hrs	@	125.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					1,100.00
	Contractor's profit & overhead			20%	220.00
	Total Labour rate				1320.00
	2. Material				
	Chinese make Submersible Pumpset,4HP	1.00	Nos.	@	45,000.00
	Contractor's profit & overhead			20%	9,000.00
	Total Composite rate				55,320.00
b)	Solar Submersible PumpSet, 5HP				
	1. Labour				
	Plumber	4.00	Hrs	@	125.00
	Electrician	2.00	Hrs	@	125.00
	Electrician helper	4.00	Hrs	@	87.50
					350.00
					1,100.00
	Contractor's profit & overhead			20%	220.00
	Total Labour rate				1320.00
	2. Material				
	Chinese make Submersible Pumpset, 5HP	1.00	Nos.	@	55,000.00
	Contractor's profit & overhead			20%	11,000.00
	Total Composite rate				67,320.00
c)	Solar Submersible PumpSet, 7.5HP				

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
1. Labour					
Plumber	4.00 Hrs @	125.00	500.00		
Electrician	2.00 Hrs @	125.00	250.00		
Electrician helper	4.00 Hrs @	87.50	350.00		
			1,100.00		
Contractor's profit & overhead		20%	220.00		
Total Labour rate			1,320.00		1320.00
2. Material					
Chinese make Submersible Pumpset, 7.5HP	1.00 Nos. @	75000.00	75,000.00		
Contractor's profit & overhead		20%	15,000.00		
Total Composite rate			91,320.00		91,320
d) Solar Submersible PumpSet, 10HP					
1. Labour					
Plumber	8.00 Hrs @	125.00	1,000.00		
Electrician	4.00 Hrs @	125.00	500.00		
Electrician helper	8.00 Hrs @	87.50	700.00		
			2,200.00		
Contractor's profit & overhead		20%	440.00		
Total Labour rate			2,640.00		2640.00
2. Material					
Chinese make Sub Submersible Pumpset, 10HP	1.00 Nos. @	90000.00	90,000.00		
Contractor's profit & overhead		20%	18,000.00		
Total Composite rate			110,640.00		110,640
e) Solar Submersible PumpSet, 12.5HP					
1. Labour					
Plumber	8.00 Hrs @	125.00	1,000.00		
Electrician	4.00 Hrs @	125.00	500.00		
Electrician helper	8.00 Hrs @	87.50	700.00		
			2,200.00		
Contractor's profit & overhead		20%	440.00		
Total Labour rate			2,640.00		2640.00
2. Material					
Chinese make Sub Submersible Pumpset, 12.5 HP	1.00 Nos. @	110000.00	110,000.00		
Contractor's profit & overhead		20%	22,000.00		
Total Composite rate			134,640.00		134,640
f) Solar Submersible PumpSet, 15HP					
1. Labour					
Plumber	8.00 Hrs @	125.00	1,000.00		
Electrician	4.00 Hrs @	125.00	500.00		
Electrician helper	8.00 Hrs @	87.50	700.00		
			2,200.00		
Contractor's profit & overhead		20%	440.00		
Total Labour rate			2,640.00		2640.00
2. Material					
Chinese make Sub Submersible Pumpset, 15 HP	1.00 Nos. @	135,000	135,000.00		
Contractor's profit & overhead		20%	27,000.00		
Total Composite rate			164,640.00		164,640
g) Solar Submersible PumpSet, 17.5HP					
1. Labour					
Plumber	8.00 Hrs @	125.00	1,000.00		
Electrician	4.00 Hrs @	125.00	500.00		
Electrician helper	8.00 Hrs @	87.50	700.00		
			2,200.00		
Contractor's profit & overhead		20%	440.00		
Total Labour rate			2,640.00		2640.00
2. Material					
Chinese make Sub Submersible Pumpset, 17.5 HP	1.00 Nos. @	150000.00	150,000.00		
Contractor's profit & overhead		20%	30,000.00		
Total Composite rate			182,640.00		182,640
h) Solar Submersible PumpSet, 20HP					
1. Labour					
Plumber	8.00 Hrs @	125.00	1,000.00		
Electrician	4.00 Hrs @	125.00	500.00		
Electrician helper	8.00 Hrs @	87.50	700.00		
			2,200.00		
Contractor's profit & overhead		20%	440.00		
Total Labour rate			2,640.00		2640.00
2. Material					
Chinese make Sub Submersible Pumpset, 20 HP	1.00 Nos. @	175000.00	175,000.00		

Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Contractor's profit & overhead	20%	35,000.00		
	Total Composite rate		212,640.00		212,640

i) Solar Submersible PumpSet, 25HP

1. Labour

Plumber	8.00	Hrs	@	125.00	1,000.00
Electrician	4.00	Hrs	@	125.00	500.00
Electrician helper	8.00	Hrs	@	87.50	700.00
					<u>2,200.00</u>

Contractor's profit & overhead

Total Labour rate

20% 440.00

2,640.00**2640.00**

2. Material

Chinese make Sub Submersible Pumpset, 25 HP 1.00 Nos. @ 200000.00 200,000.00

Contractor's profit & overhead

Total Composite rate

20% 40,000.00

242,640.00**242,640****i) Solar Submersible PumpSet, 30HP**

1. Labour

Plumber	8.00	Hrs	@	125.00	1,000.00
Electrician	4.00	Hrs	@	125.00	500.00
Electrician helper	8.00	Hrs	@	87.50	700.00
					<u>2,200.00</u>

Contractor's profit & overhead

Total Labour rate

20% 440.00

2,640.00**2640.00**

2. Material

Chinese make Submersible Pumpset, 30 HP 1.00 Nos. @ 225000.00 225,000.00

Contractor's profit & overhead

Total Composite rate

20% 45,000.00

272,640.00**272,640****j) Solar Submersible PumpSet, 40HP**

1. Labour

Plumber	8.00	Hrs	@	125.00	1,000.00
Electrician	4.00	Hrs	@	125.00	500.00
Electrician helper	8.00	Hrs	@	87.50	700.00
					<u>2,200.00</u>

Contractor's profit & overhead

Total Labour rate

20% 440.00

2,640.00**2640.00**

2. Material

Chinese make Submersible Pumpset, 40 HP 1.00 Nos. @ 240000.00 240,000.00

Contractor's profit & overhead

Total Composite rate

20% 48,000.00

290,640.00**290,640****Item No. 31-33****Providing and fixing at Site Surge Protector Complete in all respect including installation and testing and commissioning.****a) Surge Protector (40 KVA) 3 Pole**

1. Labour

Electrician	2.00	Hrs	@	125.00	250.00
Electrician helper	4.00	Hrs	@	87.50	350.00
					<u>600.00</u>

Contractor's profit & overhead

Total Labour rate

20% 120.00

720.00**720.00**

2. Material

Surge Protector (40 KVA) 3 Pole 1.00 Nos. @ 28000.00 28,000.00

Contractor's profit & overhead

Total Composite rate

20% 5,600.00

34,320.00**34,320****b) Surge Protector (40 KVA) 4 Pole**

1. Labour

Electrician	2.00	Hrs	@	125.00	250.00
Electrician helper	4.00	Hrs	@	87.50	350.00
					<u>600.00</u>

Contractor's profit & overhead

Total Labour rate

20% 120.00

720.00**720.00**

2. Material

Surge Protector (40 KVA) 4 Pole 1.00 Nos. @ 32000.00 32,000.00

Contractor's profit & overhead

Total Composite rate

20% 6,400.00

39,120.00**39,120****Item No. 31-34****Providing and fixing at Site Remote Online System Monitoring Device, Complete in all respect including installation and testing and commissioning.**

1. Labour

Electrician	24.00	Hrs	@	125.00	3,000.00
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Unit	Description	Component Cost		Unit	Rate
		(Rs)	(Rs)	(Rs)	(Rs)
	Electrician helper	24.00	Hrs @	87.50	2,100.00
					5,100.00
	Contractor's profit & overhead			20%	1,020.00
	Total Labour rate				6,120.00
					6120.00
	2. Material				
	Remote Online System Monitoring Device	1.00	Nos. @	250000.00	250,000.00
	Contractor's profit & overhead			20%	50,000.00
	Total Composite rate				306,120.00
					306,120

Item No. 31-35

Providing and fixing at Site System Control Panel (SCP), Complete in all respect including installation and testing and commissioning.

	1. Labour				
	Electrician	16.00	Hrs @	125.00	2,000.00
	Electrician helper	16.00	Hrs @	87.50	1,400.00
					3,400.00
	Contractor's profit & overhead			20%	680.00
	Total Labour rate				4,080.00
					4080.00
	2. Material				
	System Control Panel (SCP)	1.00	Nos. @	75000.00	75,000.00
	Contractor's profit & overhead			20%	15,000.00
	Total Composite rate				94,080.00
					94,080

HOURLY LABOUR RATE

Sr. No.	Description	Unit	Rate (Rs.)
1	Bahishti	Hrs	87.50
2	Belcha man	Hrs	87.50
3	Bellow boy	Hrs	87.50
4	Black smith	Hrs	112.00
5	Boatman	Hrs	125.00
6	Brick layer	Hrs	125.00
7	Bullock man	Hrs	87.50
8	Canner	Hrs	87.50
9	Compacting Effort	Lump	175.00
10	Carpenter	Hrs	125.00
11	Carpenter special	Hrs	125.00
12	Carpenter helper	Hrs	87.50
13	Carpenter shuttering	Hrs	125.00
14	Chimney cleaner	Hrs	87.50
15	Chiseller	Hrs	90.00
16	Chiseller concrete	Hrs	90.00
17	Chiseller helper	Hrs	87.50
18	Chiseller marble	Hrs	97.50
19	Stone chiseller	Hrs	90.00
20	Chowkidar	Hrs	87.50
21	Crane operator helper	Hrs	87.50
22	Labourer	Hrs	87.50
23	Skilled labourer	Hrs	90.00
24	Smith cooly	Hrs	87.50
25	Crane operator	Hrs	125.00
26	Digger	Hrs	87.50
27	Dolley man	Hrs	120.00
28	Driver	Hrs	87.50
29	Dresser	Hrs	87.50
30	Driller	Hrs	87.50
31	Driller rock	Hrs	87.50
32	Driller for wells	Hrs	87.50
33	Electrician	Hrs	125.00
34	Electrician helper	Hrs	87.50
35	Engraver	Hrs	125.00
36	Excavator	Hrs	87.50
37	Fitter	Hrs	87.50
38	Floor grinder with machine	Hrs	87.50
39	Floor polisher	Hrs	87.50
40	Foreman	Hrs	125.00
41	Glazier	Hrs	125.00

HOURLY LABOUR RATE

Sr. No.	Description	Unit	Rate (Rs.)
42	Hammer man	Hrs	87.50
43	Helper	Hrs	75.00
44	Heavy load lifter	Hrs	87.50
45	Mason	Hrs	125.00
46	Mason helper	Hrs	87.50
47	Mason for dressing stone	Hrs	115.00
48	Mason for pointing	Hrs	87.50
49	Mate	Hrs	87.50
50	Mistri	Hrs	110.00
51	Machine operator for spray machine	Hrs	125.00
52	Marble stone polisher	Hrs	125.00
53	Painter helper	Hrs	87.50
54	Painter	Hrs	125.00
55	Pipe fitter	Hrs	125.00
56	Pipe layer	Hrs	125.00
57	Plasterer	Hrs	110.00
58	Plasterer (Special class)	Hrs	125.00
59	Plumber	Hrs	125.00
60	Polisher	Hrs	110.00
61	Quarry man	Hrs	87.50
62	Rock breaker	Hrs	87.50
63	Sawing charges	Cu.ft.	87.50
64	Shovel man	Hrs	87.50
65	Skilled worker	Hrs	125.00
66	Semi skilled worker	Hrs	110.00
67	Spray man	Hrs	125.00
68	Steel bender operator	Hrs	87.50
69	Steel cutter operator	Hrs	87.50
70	Steel fixer	Hrs	125.00
71	Steel fitter	Hrs	125.00
72	Steel helper	Hrs	87.50
73	Steel labour mate	Hrs	87.50
74	Steel mistri	Hrs	87.50
75	Supervisor	Hrs	140.00
76	Assistant Supervisor	Hrs	115.00
77	Surveyor	Hrs	140.00
78	Technician	Hrs	150.00
79	Glazed tile layer	Hrs	130.00
80	Tile layer	Hrs	130.00
81	Weaver	Hrs	87.50
82	Welder	Hrs	125.00
83	White washer	Hrs	110.00
84	Wood cutter	Hrs	87.50
85	Sanitary Worker	Hrs	110

PLANT & EQUIPMENT INCLUDING OPERATIONAL COST			
Sr. No.	Description	Unit	Rate (Rs.)
1	Asphalt mixing plant including other equipment	Hrs	25,411.00
2	Bitumen mixer with fuel & operator	Hrs	1,750.00
3	Concrete Batching Plant (30 Cum/Hr.)	Hrs	2,575.00
4	Boring of tubewell equipment (Manual)	Hrs	425.00
5	Bucket	Hrs	20.00
6	Bulldozer C-14	Hrs	3,597.00
7	Bullock	Hrs	120.00
8	Concrete mixer with operator - 5 Cu.ft.	Hrs	253.00
9	Crane 20 ton capacity	Hrs	1,900.00
10	Crane 10 ton capacity	Hrs	1,410.00
11	Crane 3 ton capacity	Hrs	400.00
12	Crane 6 ton capacity	Hrs	500.00
13	Cutting machine for G.I. pipes	Hrs	45.00
14	Cutting machine (prestressing wire)	Hrs	40.00
15	Drill machine	Hrs	60.00
16	Excavator	Hrs	2,500.00
17	Earth carrier	Hrs	96.00
18	Floor grinding machine with grinder	Hrs	75.00
19	Grout pum mixer	Hrs	112.50
20	Harrowing disc with tractor	Hrs	537.00
21	Hand roller 1/2 ton	Hrs	34.00
22	High pressure hand pump	Hrs	10.00
23	Hydraulic jack	Hrs	426.00
24	Immersion vibrator	Hrs	196.00
25	Injection pump	Hrs	125.00
26	Motor grader 90 H.P.	Hrs	2,136.00
27	Motor grader 165 H.P.	Hrs	3,150.00
28	Pile driving plant with accessories	Hrs	1,000.00
29	Piling plant including fuel, operator & other staff	Hrs	5,000.00
30	Pneumatic tyre roller	Hrs	2,135.00
31	Pump including POL with driver	Hrs	300.00
32	Pump set 10 H.P	Hrs	625.00
33	Concrete Pump	Hrs	1,509.00
34	Rammer	Hrs	87.00
35	Rig	Hrs	1,000.00

PLANT & EQUIPMENT INCLUDING OPERATIONAL COST			
Sr. No.	Description	Unit	Rate (Rs.)
36	Riveting machine	Hrs	60.00
37	Road compactor	Hrs	800.00
38	Road roller 10-12 ton capacity	Hrs	1,154.00
39	Road roller 6 ton capacity	Hrs	1,250.00
40	Steel bar bending machine	Hrs	60.00
41	Steel bar cutting machine	Hrs	60.00
42	Screened vibrator	Hrs	60.00
43	Sheep foot roller	Hrs	3,300.00
44	Skip bucket	Hrs	30.00
45	Spray machine	Hrs	60.00
46	Concrete Transit Mixer (6 cum)	Hrs	1,676.00
47	Tar boiler with attendant	Hrs	200.00
48	Tar boiler with sprayer	Hrs	125.00
49	Tanker	Hrs	700.00
50	Trailer with operator and fuel.(30 Ton Capacity)	Hrs	3,400.00
51	Tractor with operator	Hrs	537.00
52	Tractor 98HP for sheep foot roller	Hrs	534.00
53	Truck 8 ton capacity (Dumper)	Hrs	1,542.00
54	Vibrator including operator	Hrs	175.00
55	Vibratory roller 10-12 Ton	Hrs	1,772.00
56	Water tanker, 1000 gallon capacity	Hrs	583.00
57	Welding machine	Hrs	125.00
58	Welding plant	Hrs	125.00
59	Donkey	Hrs	100.00
60	Donkey (with cart)	Hrs	125.00
61	10 ton truck	Days	1,120.00
62	Tractor with trolley	Days	4,352.00
63	Trackor with trolley (For Bricks)	Days	7,500.00
64	Tractor	Days	1,923.00
65	Jack Hammer	Hrs	4,500.00
66	Dumper Truck (Imported) (18 Ton)	Hrs	2,150.00
67	Air compressor	Hrs	600.00
68	Wheel Tractor with Blade	Hrs	650.00
69	Plate Compactor	Hrs	300.00
70	Frog Compactor	Hrs	350.00
71	Manual Jack Hammer	Hrs	500.00

PLANT & EQUIPMENT INCLUDING OPERATIONAL COST			
Sr. No.	Description	Unit	Rate (Rs.)
72	Bamboo Scaffolding	Sft	5.00
73	Steel Scaffolding	Sft	25.00
74	Steel Shuttering including Polyvinly board	Sft	25.00
75	Putzmeister plastering machine	Hrs	150.00
76	Cold Milling Machine. 1 M Width	Hrs.	8,500.00
76	Percussion boring rig	Hrs.	750.00
76	Laser Levelling Machine	Hrs.	3,500.00
76	Paver 4 M wide	Hrs.	4,500.00
76	Bitmac Plant	Hrs.	8,000.00
	Bitumen Distributor Tow Type (2000 liters)	Hrs.	900.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
	Building pipe & fittings (Commercial)		
1	Down pipe	No.	290
2	Head	No.	125
3	Head	No.	115
4	Off-set	No.	210
5	Off-set	No.	195
	Non Asbestos Cement Fibre building pipe		
6	Non Asbestos Cement Fibre pipe 65 mm dia.	R.M.	310
7	Non Asbestos Cement Fibre pipe 80 mm dia.	R.M.	502
8	Non Asbestos Cement Fibre pipe 100 mm dia	R.M.	689
9	Non Asbestos Cement Fibre pipe 150 mm dia	R.M.	1,082
	F.C. pipe class B		
10	F.C. pipe 75 mm dia.	R.M.	502
11	F.C. pipe 100 mm dia	R.M.	689
12	F.C. pipe 150 mm dia	R.M.	1,082
13	Non Asbestos Cement Fibre pipe 200 mm dia	R.M.	1,784
14	Non Asbestos Cement Fibre pipe 250 mm dia	R.M.	2,558
15	Non Asbestos Cement Fibre pipe 300 mm dia	R.M.	3,247
16	Non Asbestos Cement Fibre pipe 350 mm dia	R.M.	4,166
17	Non Asbestos Cement Fibre pipe 400 mm dia	R.M.	5,297
18	Non Asbestos Cement Fibre pipe 450 mm dia	R.M.	6,593
19	Non Asbestos Cement Fibre pipe 500 mm dia	R.M.	8,134
20	Non Asbestos Cement Fibre pipe 600 mm dia	R.M.	11,316
	Non Asbestos Cement Fibre pipe class C		-
21	Non Asbestos Cement Fibre pipe 75 mm dia.	R.M.	475
22	Non Asbestos Cement Fibre pipe 100 mm dia	R.M.	699
23	Non Asbestos Cement Fibre pipe 150 mm dia.	R.M.	1,214
24	Non Asbestos Cement Fibre pipe 200 mm dia	R.M.	1,932
25	Non Asbestos Cement Fibre pipe 250 mm dia	R.M.	2,696
26	Non Asbestos Cement Fibre pipe 300 mm dia	R.M.	3,762
27	Non Asbestos Cement Fibre pipe 350 mm dia	R.M.	5,809
28	Non Asbestos Cement Fibre pipe 400 mm dia	R.M.	7,432
29	Non Asbestos Cement Fibre pipe 450 mm dia	R.M.	9,118
30	Non Asbestos Cement Fibre pipe 500 mm dia	R.M.	10,857
31	Non Asbestos Cement Fibre pipe 600 mm dia	R.M.	15,318
	Non Asbestos Cement Fibre pipe class D		-
32	Non Asbestos Cement Fibre pipe 75 mm dia.	R.M.	502
33	Non Asbestos Cement Fibre pipe 100 mm dia	R.M.	840
34	Non Asbestos Cement Fibre pipe 150 mm dia	R.M.	1,538
35	Non Asbestos Cement Fibre pipe 200 mm dia	R.M.	2,729
36	Non Asbestos Cement Fibre pipe 250 mm dia	R.M.	4,038
37	Non Asbestos Cement Fibre pipe 300 mm dia	R.M.	5,904
38	Non Asbestos Cement Fibre pipe 350 mm dia	R.M.	8,820
39	Non Asbestos Cement Fibre pipe 400 mm dia	R.M.	11,408

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
40	Non Asbestos Cement Fibre pipe 450 mm dia	R.M.	13,740
41	Non Asbestos Cement Fibre pipe 500 mm dia	R.M.	16,764
42	Non Asbestos Cement Fibre pipe 4" dia. Class C	R.M.	395
43	Non Asbestos Cement Fibre pipe 6" dia. Class C	R.M.	502
44	Non Asbestos Cement Fibre plain bend 100 mm dia	No.	375
45	Non Asbestos Cement Fibre plain bend 80 mm dia	No.	325
46	Non Asbestos Cement Fibre pipe spouts 60 mm dia	R.M.	390
47	Non Asbestos Cement Fibre pipe spouts 80 mm dia	R.M.	425
48	Non Asbestos Cement Fibre pipe spouts 100 mm dia	R.M.	495
49	Non Asbestos Cement Fibre ridge	Pair	570
50	Shoe 100 mm	No.	95
51	Shoe 80 mm	No.	75
52	Non Asbestos Cement Fibre sheet corrugated	Sq.m.	320
53	Non Asbestos Cement Fibre sheet corrugated coloured	Sq.m.	350
54	Non Asbestos Cement Fibre sheet - plain	Sq.m.	460
55	Non Asbestos Cement Fibre valley gutter	R.M.	489
56	Adhesive	Kg.	135
57	Air entraining agent	litre	225
58	Aluminium angle/flat	Kg.	200
59	Aluminium curtain rail	R.ft.	45
60	Aluminium finger plate	No.	155
61	Aluminium sheet	Kg.	255
62	Aluminium screw 3/4" size	No.	35
63	Aluminium screw 1 1/2" size	No.	45
64	Aluminium strip 5/8" x 1/8"	R.M.	85
65	Aluminium strip 7/8" x 1/16"	R.M.	60
66	Aluminium tower bolt 4"	No.	110
67	Aluminium tower bolt 6"	No.	150
68	Aluminium tower bolt 8"	No.	200
69	Aluminium wire gauze	Sq.ft.	20
70	Anchorage cones for 12/5 mm cable	Set	2,500
71	Anchorage cones for 12/7mm cable	Set	3,300
72	Anchorage cones for 12/8 mm cable	Set	3,300
73	Angle iron	Kg.	74
74	Angle iron bracket	pair	150
75	Architectural coating (Rockwall, Durock etc.)	Sq. m.	80
76	Asphalt RC 70	Kg.	65
77	Air valve 65 mm dia single BSS quality	No.	2,550
78	Air valve 65 mm dia double BSS quality	No.	5,500
79	Bolts & Nuts	No.	12
80	Balli 4" dia.	R.ft.	15
81	Balli 3" dia.	R.ft.	10
82	Bamboos, 1.5" dia	R.M.	92
83	Bamboo 2" - 2.5" dia	R.M.	92

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
84	Bamboo 3" dia	R.M.	92
85	Bamboo 3.5" to 4" dia	R.M.	92
86	Barbed wire (16 Guage)	Kg	130
87	Barbed wire 3 ply	Kg	175
88	Base course aggregate	Cu.m.	1,589
89	Bearing - steel	Kg.	155
90	Bearing pad rubber	No.	9,000
91	Bentonite Powder	Kg	8
92	Blasting powder	Kg.	205
93	Bottle for sampling	No.	40
94	Bottle trap	No.	760
95	Bhoosa	Kg.	20
96	Bidet	No.	5,300
97	Bidet kit	No.	5,500
98	Bitumen 60/70	Kg.	78
99	Bitumen 80/100	Kg.	80
100	Bitumen cold sticker	Kg.	75
101	Bitumen compound	Kg.	60
102	Bitumen felt 3 ply	Sq.m	225
103	Bitumen filler - premoulded 2" deep	R.M.	65
104	Bitumen plastic	Kg.	40
105	Bitumen washers	No.	2
106	Binding wire	Kg.	90
107	Bolts & Nuts	Kg.	90
108	Brass bib/stop cock 1/2" dia.	No.	100
109	Brass bib/stop cock 3/4" dia.	No.	120
110	Brass bib/stop cock 1" dia.	No.	250
111	Brass butt hinges 2"	No.	100
112	Brass butt hinges 3"	No.	110
113	Brass butt hinges 4"	No.	140
114	Brass butt hinges 5"	No.	160
115	Brass bolts 30 mm	No.	110
116	Brass ball valve 15 mm	No.	115
117	Brass ball valve 20 mm	No.	160
118	Brass ball valve 25 mm	No.	195
119	Brass ball valve 30 mm	No.	325
120	Brass ball valve 40 mm	No.	425
121	Brass ball valve 50 mm	No.	750
122	Brass finger plate	No.	300
123	Brass gas cock 1/2" dia.	No.	125
124	Brass gas cock 3/4" dia.	No.	180
125	Brass handle size 100 mm	No.	250
126	Brass handle size 125 mm	No.	300
127	Brass handle size 175 mm	No.	500

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
128	Brass circular rod handle 5" size	No.	110
129	Brass handle with plate	No.	750
130	Brass hasp & staple 2"	No.	450
131	Brass hasp & staple 3"	No.	460
132	Brass hasp & staple 4"	No.	500
133	Brass hasp & staple 5"	No.	510
134	Brass hook & eye 4"	No.	350
135	Brass hook & eye 6"	No.	600
136	Brass hook	No.	90
137	Brass helical spring 4" - double action	No.	550
138	Brass helical spring 6" - double action	No.	625
139	Brass helical spring 4" - single action	No.	430
140	Brass helical spring 6" - single action	No.	350
141	Brass parliament hinges 5" x 5"	No.	400
142	Brass peg 6 x 4	No.	85
143	Brass piano hinge	R.ft.	35
144	Brass quadrant stay	No.	110
145	Brass railing	Kg	300
146	Brass ring 1" dia	No.	10
147	Brass ring 1.25" dia	No.	12
148	Brass rollers	No.	24
149	Brass roller 1.5" dia	No.	90
150	Brass screw 1/2" size	No.	4
151	Brass screw 3/4" size	No.	4
152	Brass screw 1" size	No.	5
153	Brass screw 1.25" size	No.	6
154	Brass screw 1.5" size	No.	10
155	Brass screw 3"	No.	6
156	Brass sliding bolt 6" x 1/2"	No.	450
157	Brass sliding bolt 9" x 5/8"	No.	700
158	Brass sliding bolt 10" x 5/8"	No.	800
159	Brass sliding bolt 12" x 3/4"	No.	1,000
160	Brass socket for floor	No.	100
161	Brass socket 3/4" dia	No.	80
162	Brass strainer shoe 50 mm dia	No.	150
163	Brass stopper	No.	250
164	Brass strainer 50 mm dia	R.M.	5,525
165	Brass strainer 75 mm dia	R.M.	7,800
166	Brass strainer 100 mm dia	R.M.	8,400
167	Brass strainer 125 mm dia	R.M.	9,800
168	Brass strainer 150 mm dia	R.M.	10,080
169	Brass strainer 175 mm dia	R.M.	11,900
170	Brass strainer 200 mm dia	R.M.	14,000
171	Brass strainer 225 mm dia	R.M.	15,400

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
172	Brass strainer 250 mm dia	R.M.	17,080
173	Brass strainer 250 mm dia	R.M.	17,500
174	Brass strainer 300 mm dia	R.M.	18,200
175	Brass strainer 375 mm dia	R.M.	24,500
176	Brass strainer 450 mm dia	R.M.	33,600
177	Brass strainer 500 mm dia	R.M.	39,200
178	Brass strainer 550 mm dia	R.M.	44,800
179	Brass tube 3/4" dia	R.ft	200
180	Brass tower bolt 6"	No.	100
181	Brass tower bolt 9"	No.	120
182	Brass tower bolt 12"	No.	150
183	Brass work	Kg.	150
184	Bricks	No.	10
185	Brick 2nd class	No.	7
186	Brick/ Stone bats	Cu.m.	300
187	Brick/ Stone ballast	Cu.m.	515
188	Brick/ Stone ballast vitrified	Cu.m.	515
189	Brick sundried	No.	6
190	Bricks - special	No.	12
191	Brick tiles	No.	6
192	Brick tiles (2" thick)	No.	15
193	Broom	No.	35
194	Bajri	Cu.m	1,235
	Bath tub		
195	Bath tub porcelain enamelled	No.	17,000
196	Bath tub fibre glass	No.	14,000
197	Bath tub C.P. brass chain with rubber plug	No.	350
198	Bath tub C.P. brass pillar tap	No.	1,500
199	Bath tub C.P. brass overflow	No.	1,200
200	Bath tub C.P. brass waste	No.	700
201	Bucket, 4 gals. capacity	No.	350
202	Building stone	Cu.m.	706
203	Bushing (Gun metal)	Kg.	18
204	Cane Singapore	Kg.	1,100
205	Cane plastic	Kg.	350
206	Carbon rod	No.	15
207	Carborandum stone	No.	155
208	Caustic soda	Kg.	70
209	Cement - high Alumina	M.Ton	10,700
210	Cement OPC	M.Ton	10,500
211	Cement - rapid hardening	M.Ton	10,700
212	Cement - sulphate resistant.	M.Ton	11,500
213	Cement - white	M.Ton	15,000
214	Cement liquid compound	Liter	22

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
215	Charcoal	Kg.	15
216	Chain	Kg.	80
217	Chain for cycle stand	No.	60
218	Chalk	Kg.	10
219	Chalking compound	Liter	59
220	Channel iron	Kg.	77
221	Chip board 3/4" thick	Sq.ft.	48
222	C.I. bend 4" dia.	No.	565
223	C.I. bend 3" dia.	No.	450
224	C.I. cover and frame medium duty	No.	700
225	C.I. cover and frame 24" size medium duty	No.	1,500
226	C.I. cover & frame	Kg.	105
227	C.I. frame of any size	Kg.	110
228	C.I. foot rest	No.	80
229	C.P. floor trap with grating	No.	1,000
230	C.P. floor trap with grating	No.	1,200
231	Concrete gully trap	No.	400
232	C.P. gully trap 6" x 6" x 4"	No.	600
233	Cast iron grating	Kg.	75
234	C.I. head 4" dia.	No.	163
235	C.I. head 3" dia	No.	137
236	C.I. off set 4" dia.	No.	520
237	C.I. off set 3" dia.	No.	494
	C.I. pipe		
238	C.I. Pipe 50 mm dia.	R.M.	1,350
239	C.I. Pipe 75 mm dia.	R.M.	2,025
240	C.I. pipe 100 mm dia.	R.M.	2,700
241	C.I. pipe 150 mm dia	R.M.	4,500
242	C.I. pipe 230 mm dia	R.M.	6,750
243	C.I. pipe spout 50 mm dia	R.M.	688
244	C.I. pipe spout 80 mm dia	R.M.	875
245	C.I. pipe spout 100 mm dia	R.M.	1,063
246	C.I. P - trap 4"	No.	1,000
247	C.I. shoe 4" dia	No.	750
248	C.I. shoe 3" dia	No.	688
249	C.I. shoe	Kg.	88
250	C.I. specials	Kg.	94
	C.I. sluice valve BSS quality		
251	C.I. sluice valve 75 mm dia	No.	4,750
252	C.I. sluice valve 100 mm dia	No.	7,500
253	C.I. sluice valve 150 mm dia	No.	12,000
254	C.I. sluice valve 230 mm dia	No.	17,750
255	C.I. sluice valve 300 mm dia	No.	37,500
256	C.I. sluice valve 375 mm dia	No.	42,750

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
257	C.I. sluice valve 450 mm dia	No.	97,750
258	C.I. sluice valve 525 mm dia	No.	125,000
259	C.I. sluice valve 600 mm dia	No.	175,000
260	C.I. sluice valve 675 mm dia	No.	225,000
261	C.I. sluice valve 750 mm dia	No.	300,000
262	Cinder	Cu.m.	200
263	Clamps, bolts & nuts	No.	100
264	Clay	Cu.m.	71
265	Clamps	No.	12
266	Clamp screw	No.	8
267	Cloth cotton	Sq.ft.	16
268	Cloth silken	Sq.ft.	36
269	Cloth woolen	Sq.ft.	36
270	Coaltar	Kg.	95
271	Comet joint 80 mm dia.	No.	110
272	Comet joint 100 mm dia.	No.	300
273	Comet joint 150 mm dia.	No.	450
274	Copper sheet	Kg.	550
275	Copper connection	No.	200
276	Copper wire/plate	Kg.	480
277	Core	R.M.	80
278	Cork sheet 1/2" thick	Sq.m.	625
279	Cork sheet 19mm thick	Sq.m.	875
280	Cork sheet 25 mm thick	Sq.m.	1,500
281	Cork sheet 37.5mm thick	Sq.m.	2,000
282	Cork sheet 50 mm thick	Sq.m.	2,500
283	Coir string	Kg.	50
284	Cotton - string	Kg.	60
285	Cotton tape	R.M.	10
286	Cowdung	Cu.m.	106
287	C.P. bib cock 1/2"	No.	900
288	C.P. bib cock 3/4"	No.	1,100
289	C.P. brass clamp	No.	200
290	C.P. brass curtain rail	R.ft.	155
291	C.P. hasp & staple 2"	No.	28
292	C.P. hasp & staple 3"	No.	44
293	C.P. hasp & staple 4"	No.	50
294	C.P. hasp & staple 5"	No.	53
295	C.P. brass handle 4" size	No.	70
296	C.P. brass handle 5" size	No.	90
297	C.P. brass handle 7" size	No.	110
298	C.P. brass screw (1.5")	No.	55
299	C.P. brass shower 1/2" with 4" dia. lid	No.	510
300	C.P. brass shower 1/2" with 6" dia. lid	No.	630

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
301	C.P. brass sliding bolt 6" x 1/2"	No.	195
302	C.P. brass sliding bolt 9" x 5/8"	No.	215
303	C.P. brass sliding bolt 10" x 5/8"	No.	550
304	C.P. brass sliding bolt 12" x 3/4"	No.	845
305	C.P. brass socket 3/4" dia.	No.	95
306	C.P. brass shower rose	No.	1,500
307	C.P. brass tube 3/4" dia.	R.ft.	75
308	C.P. brass tower bolt 6"	No.	400
309	C.P. brass tower bolt 9"	No.	575
310	C.P. brass tower bolt 12"	No.	1,100
311	C.P. bottle trap 1-1/4"	No.	1,075
312	C.P. bottle trap 1-1/2"	No.	1,600
313	C.P. brass toilet paper holder (Master, Sonex etc.)	No.	900
314	C.P. cover	No.	150
315	C.P. chain	No.	50
316	C.P. brass chain with pull	No.	100
317	C.P. chain with rubber plug	No.	110
318	C.P. chain with rubber plug	No.	150
319	C.P. check valve 15 mm dia	No.	1,600
320	C.P. check valve 20 mm dia	No.	2,100
321	C.P. check valve 25 mm dia	No.	2,400
322	C.P. check valve 30 mm dia	No.	3,500
323	C.P. check valve 40 mm dia	No.	4,600
324	C.P. check valve 50 mm dia	No.	7,000
325	C.P. flushing valve 1"	No.	3,125
326	C.P. gas cock 1/4" dia. Three way	No.	438
327	C.P. gas cock 1/4" dia. Double way	No.	363
328	C.P. gas cock 1/4" dia. Single way	No.	363
329	C.P. mixer single hole deluxe	No.	3,000
330	C.P. pillar cock	No.	875
331	C.P. pillar cock	No.	1,000
332	C.P. ring 1" dia	No.	25
333	C.P. ring 1.25" dia	No.	38
334	C.P. shower mixer complete set (Sonex, Master etc.)	No.	5,500
335	C.P. stop cock	No.	910
336	C.P. stop cock	No.	1,170
337	C.P. underground stop cock	No.	1,235
338	C.P. underground stop cock	No.	1,300
339	C.P. shower kit	No.	2,600
340	C.P. swan neck cock double way	No.	1,950
341	C.P. swan neck cock single way	No.	1,690
342	C.P. tee stop cock 1/2"	No.	1,235
343	C.P. Towel rail with brackets and screws	No.	1,560
344	C.P. Towel rail with brackets and screws	No.	1,950

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
345	C.P. brass waste	No.	780
346	C.P. waste coupling 30 mm	No.	390
347	C.P. waste coupling 40 mm	No.	455
348	Cowdung	Cu.m.	300
349	Crush Pan	Cu.m.	1,059
350	Crushed Aggregate 1/2" & down gauge	Cu.m.	1,235
351	Crushed Aggregate 3/8" & down gauge	Cu.m.	1,297
352	Crushed Aggregate 3/4" & down gauge	Cu.m.	1,359
353	Crushed Aggregate 1-1/2" & down gauge	Cu.m.	1,112
354	Approved Crushed Aggregate 1/2" & down gauge	Cu.m.	1,235
355	Approved Crushed Aggregate 3/4" -3/8"	Cu.m.	1,297
356	Approved Crushed Aggregate 3/8" & No. 4	Cu.m.	1,359
357	Approved Crushed Aggregate 1-1/2" & down gauge	Cu.m.	1,112
	D.I. pipe with all accessories & fittings		
358	D.I. pipe 100 mm dia.	R.M.	1,000
359	D.I. pipe 150 mm dia.	R.M.	1,750
360	D.I. pipe 200 mm dia.	R.M.	2,000
361	D.I. pipe 250 mm dia.	R.M.	2,500
362	D.I. pipe 300 mm dia.	R.M.	3,500
363	D.I. pipe 400 mm dia.	R.M.	4,500
364	D.I. pipe 450 mm dia.	R.M.	5,000
365	D.I. pipe 500 mm dia.	R.M.	5,500
366	D.I. pipe 600 mm dia.	R.M.	6,500
367	Door frame, moulded steel 5" size	R.ft.	185
368	Door frame, moulded steel 10" size	R.ft.	370
369	Door frame, moulded steel 5" size	R.ft.	135
370	Door frame, moulded steel 10" size	R.ft.	270
371	Door with frame, Aluminium swing	Sq.ft	450
372	Door with frame, Aluminium sliding	Sq.ft	350
373	Door with frame gauzed, Aluminium sliding	Sq.ft	375
374	Door with frame, single leaf, 2.5' x 7'	Sq.ft	450
375	Door with frame, double leaf 4' x 7'	Sq.ft	450
376	Door with frame, single leaf, 2.5' x 7'	Sq.ft	450
377	Door with frame, double leaf 4' x 7'	Sq.ft	450
378	Door with frame galvanized, single leaf, 2.5' x 7'	Sq.ft	450
379	Door with frame galvanized, double leaf, 4' x 7'	Sq.ft	450
380	Door holder shovel (5505/5506)	No.	500
381	Door holder shovel (5510)	No.	500
382	Door holder shovel (5511)	No.	550
383	Dowel bar clamps	Kg.	120
384	Drum, empty	No.	600
385	Earth	No.	5,000
386	Electric bell	No.	450
387	Electric Charges Commercial	kwh	25

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
388	Electric bell push	No.	80
389	Electric bulb holder brass	No.	120
390	Electric bulb holder plastic	No.	120
	Electric cable		
391	1.5 sq.mm single core	R.M.	24
392	2.5 sq.mm single core	R.M.	39
393	4 Sq.mm single core	R.M.	63
394	5 Sq.mm single core	R.M.	79
395	6 Sq.mm single core	R.M.	94
396	10 Sq.mm single core	R.M.	157
397	16 Sq.mm single core	R.M.	249
398	25 Sq.mm single core	R.M.	384
399	35 Sq.mm single core	R.M.	538
400	50 Sq.mm single core	R.M.	771
401	Electrolytic copper wire	Kg.	830
402	Copper wire (14 SWG)	R.M.	120
403	Copper wire (10 SWG)	R.M.	150
404	25 Sq.mm 3.5 core cable	R.M.	1,580
405	35 Sq.mm 3.5 core cables	R.M.	2,035
406	50 Sq.mm 3.5 core cables	R.M.	2,750
407	70 Sq.mm 3.5 core cables	R.M.	3,900
408	95 Sq.mm 3.5 core cables	R.M.	5,300
409	120 Sq.mm 3.5 core cables	R.M.	6,750
410	Armored 95 Sq.mm 3 core cable	R.M.	6,800
411	Electric dial type thermometer	No.	4,500
412	Electric cutout switch	No.	250
413	Electric exhaust fan 10"	No.	2,000
414	Electric fan bracket	No.	2,200
415	Electric fan 48" sweep	No.	2,750
416	Electric fan 56" sweep	No.	3,500
417	Electric tube rod	No.	130
418	Electric tube starter	No.	30
419	Electric tube choke 40w	No.	290
420	Electric tube patty fitting	No.	950
421	Flourescent tube light 40W with batten	No.	1,300
422	Flourescent tube light 20W with batten	No.	950
423	Flourescent tube light 40W, Single	No.	1,300
424	Flourescent tube light 40W, Double	No.	1,750
425	Flour. tube light 40W, Single with Ind. reflector	No.	3,500
426	Flour. tube light 40W, Double with Ind. reflector	No.	4,800
427	Flourescent tube light 40W with louvers -Single	No.	4,500
428	Flour. tube light 40W with louvers - Double	No.	5,500
429	Tube light 4 Nos. - 20W lamps with louvers	No.	4,500
430	Tube light 6 Nos. - 20W lamps with louvers	No.	6,500

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
431	T. light 40W recessed mounted, plastic louver	No.	4,000
432	T. light 4 - 20W recessed mounted, metal louver	No.	4,800
433	T. light 4 - 40W recessed mounted, plastic louver	No.	6,800
434	Tube light 6 - 20W lamp recessed mounted	No.	5,800
435	Light fixture - weather proof	No.	6,500
436	Light fixture - ceiling mounted	No.	3,800
437	Light fixture - recessed mounted	No.	4,500
438	Light fixture - wall mounted, incandescent lamp	No.	1,650
439	Light fixture - ceiling mounted, incandescent lamp	No.	2,150
440	Light fixture - recessed mounted with 150W lamp	No.	4,200
441	Light fixture - High bay mercury vapour	No.	15,500
442	Light fixture - Mercury vapour	No.	16,000
443	Light fixture - Mercury vapour with 250W lamp	No.	18,000
444	Light fixture - Mercury vapour with 125W lamp	No.	14,200
445	Light fixture - Mercury vapour with 80W lamp	No.	12,500
446	Light fixture - Emergency light unit	No.	35,000
447	Light fixture - Fancy wall bracket, single	No.	1,500
448	Light fixture - Flood light weather proof	No.	17,000
449	Light fixture - Flood light weather proof	No.	9,500
450	Electric geyser 35 gals.	No.	15,000
451	Electric geyser 55 gals.	No.	16,500
452	Lamp	No.	45
453	Lamp 200W	No.	125
454	Lamp - 25W energy saver	No.	250
455	Electric fan revolving bracket 20"	No.	3,200
456	Electric - Distribution box casing 18SWG	No.	3,500
457	Electric - Distribution box casing 16SWG	No.	4,200
458	Electric - MCCB TP/100A (Local)	No.	4,500
459	Electric - MCCB TP/60A (Imported)	No.	5,500
460	Electric - MCB Single pole (Local)	No.	390
461	Electric - MCB Single pole (Imported)	No.	480
462	Electric - Amp. meter (Local)	No.	950
463	Electric - Volt meter 500V (Imported)	No.	1,500
464	Electric - Voltage selective switch (Imported)	No.	1,250
465	Electric - Neutral & earth links	No.	500
466	Electric - Page bar	No.	300
467	Electric - HRC fuses	No.	350
468	Electric - Transformer type indication lights	No.	350
	Electric load break switch		
469	Load break switch, 15 Amp.	No.	1,250
470	Load break switch, 30 Amp.	No.	2,000
471	Load break switch, 60 Amp.	No.	3,500
472	Electric L.T. bus tie duct 800 Amp.	R.M	20,000
473	Electric L.T. bus tie duct 1200 Amp.	R.M	30,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
474	Electric L.T. bus tie duct 1600 Amp.	R.M	40,000
475	Electric motor 1 H.P. with pump	No.	10,000
476	Electric motor 1/2 H.P. with pump	No.	7,900
477	Plastic box	No.	250
478	Electric plastic box with plate single hole	No.	105
479	Electric plastic box with plate two to three hole	No.	145
480	Electric plastic box with plate four to six hole	No.	180
481	Electric plastic box with plate seven to eight hole	No.	200
482	Electric plastic box with plate nine to ten hole	No.	230
483	Electric power transformer 500 KVA	No.	1,275,000
484	Electric power transformer 750 KVA	No.	1,675,000
485	Electric power transformer 1000 KVA	No.	2,100,000
486	Electric relay buchholz double float	No.	25,000
	Electric switch		
487	Switch 1 gang	No.	240
488	Switch 2 gang	No.	340
489	Switch 3 gang	No.	420
490	Switch 4 gang	No.	504
491	Switch 2 way	No.	346
492	Switch piano	No.	40
493	Switch socket 5 Amp.	No.	405
494	Switch socket 15 Amp.	No.	490
495	Wall bolts	No.	22
496	Expanded metal	Sq.m.	630
497	Felt No.7 underlay	Sq.m.	115
498	Fibre board 1/2" thick	Sq.m.	3,675
499	Fibre glass blank pipe 200 mm dia.	R.M.	3,150
500	Fibre glass blank pipe 250 mm dia.	R.M.	3,300
501	Fibre glass blank pipe 350 mm dia.	R.M.	5,250
502	Fibre glass end plug 200 mm dia.	No.	5,250
503	Fibre glass end plug 250 mm dia.	No.	5,250
504	Fibre glass corrugated sheet	Sq.m.	1,500
505	Fibre glass sheet	Sq.m.	1,200
506	Fibre glass strainer 200 mm dia.	R.M.	3,308
507	Fibre glass strainer 250 mm dia.	R.M.	3,675
512	Fire hydrant	No.	2,625
513	Fire extinguisher, 2 gallons capacity	No.	4,725
514	Flat iron	Kg.	80
515	Foaming agent	Kg.	95
516	Foam rubber sheet 3/4" thick	Sq.ft	75
517	Foam rubber 1/16" thick	Sq.ft	16
518	Foam rubber adhesive	Kg.	160
519	Foot rest, earthenware	No.	135
520	Fuse with cartridge	No.	40

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
521	Gas cylinder	No.	1,750
522	Gas Gyser 35 gallons capacity	No.	9,350
523	Gas Gyser 50 gallons capacity	No.	10,500
524	Gas room heater (ordinary)	No.	3,500
525	Gas room heater (ordinary)	No.	5,500
526	Gas room heater (Fancy)	No.	6,500
527	Gas room heater (Fancy)	No.	13,500
528	Gas room heater, fire place design	No.	5,500
529	Gas lamp Single	No.	500
530	Gas lamp Double	No.	1,000
531	Gate valve gun metal 1/2" dia.	No.	115
532	Gate valve gun metal 3/4" dia.	No.	170
533	Gate valve gun metal 1" dia.	No.	240
534	Gate valve gun metal 1-1/4" dia.	No.	340
535	Gate valve gun metal 1-1/2" dia.	No.	475
536	Gate valve gun metal 2" dia.	No.	670
537	Gate valve gun metal 2-1/2" dia.	No.	1,075
538	Gate valve gun metal 3" dia.	No.	1,600
539	Gate valve gun metal 4" dia.	No.	1,900
540	Gate valve gun metal 6" dia.	No.	2,300
541	Gate valve flanged end 1/2" class 150	No.	115
542	Gate valve flanged end 3/4" class 150	No.	168
543	Gate valve flanged end 1" class 150	No.	240
544	Gate valve flanged end 1-1/4" class 150	No.	340
545	Gate valve flanged end 1-1/2" class 150	No.	475
546	Gate valve flanged end 2" class 150	No.	670
547	Gate valve flanged end 2-1/2" class 150	No.	1,075
548	Gate valve flanged end 3" class 150	No.	1,600
549	Gate valve flanged end 4" class 150	No.	1,875
550	Gate valve flanged end 6" class 150	No.	2,415
551	Grating G.I.	No.	250
552	Bolts and nuts	No.	2
553	G.I. Brackets	Pair	360
554	G.I. cross 2" x 2"	No.	305
555	G.I. hooks, bolt & nuts 4-1/2" x 5/16"	No.	20
556	G.I. hook & eye 4"	No.	150
557	G.I. hook & eye 6"	No.	175
558	G.I. limpet washers 7/8" dia	No.	1
559	G.I. pipe heavy duty 40 mm	R.M.	590
560	G.I. pipe heavy duty 50 mm	R.M.	881
	G.I. pipe light duty		
561	G.I. pipe 15 mm dia.	R.M.	246
562	G.I. pipe 20 mm dia.	R.M.	328
563	G.I. pipe 25 mm dia.	R.M.	471

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
564	G.I. pipe 30 mm dia.	R.M.	655
565	G.I. pipe 40 mm dia.	R.M.	758
566	G.I. pipe 50 mm dia.	R.M.	1,046
567	G.I. pipe 65 mm dia.	R.M.	1,640
568	G.I. pipe 75 mm dia.	R.M.	2,500
569	G.I. pipe 100 mm dia.	R.M.	3,076
	G.I. pipe medium duty		
570	G.I. pipe 15 mm dia.	R.M.	256
571	G.I. pipe 20 mm dia.	R.M.	330
572	G.I. pipe 25 mm dia.	R.M.	492
573	G.I. pipe 30 mm dia.	R.M.	639
574	G.I. pipe 40 mm dia.	R.M.	740
575	G.I. pipe 50 mm dia.	R.M.	1,030
576	G.I. pipe 65 mm dia.	R.M.	1,322
577	G.I. pipe 75 mm dia.	R.M.	1,704
578	G.I. pipe 100 mm dia.	R.M.	2,447
579	G.I. pipe 125 mm dia.	R.M.	3,302
580	G.I. pipe 150 mm dia.	R.M.	3,899
581	G.I. rivets	No.	12
582	G.I. sheet corrugated	Kg.	150
583	G.I. sheet plain	Kg.	130
584	G.I. sheet	Kg.	130
585	G.I. sheet tank 400 Gals. capacity	No.	42,000
586	G.I. tee 2" x 2"	No.	180
587	G.I. tee hinges 10"	No.	50
588	G.I. tee hinges 12"	No.	70
589	G.I. tee hinges 18"	No.	80
590	G.I. wire 10 gauge	Kg.	140
591	G.I. wire gauge	Sq.ft.	130
592	Glass 3 mm thick plain (local)	Sq.m.	807
593	Glass 3 mm thick unclear (local)	Sq.m.	646
594	Glass 5 mm thick plain (local)	Sq.m.	1,291
595	Glass 5 mm thick unclear (local)	Sq.m.	1,130
596	Glass 5 mm thick tinted (local)	Sq.m.	1,775
597	Glass 6 mm thick plain (local)	Sq.m.	1,350
598	Glass 6 mm thick unclear (local)	Sq.m.	1,450
599	Glass 6 mm thick tinted (local)	Sq.m.	1,850
600	Glass 6 mm thick plain (imported)	Sq.m.	1,950
601	Glass 6 mm thick tinted (imported)	Sq.m.	2,100
602	P. trap 4", glazed	No.	160
603	Glass shelf with brackets	No.	2,500
604	Glass shelf Master/Sonex	No.	2,000
605	Glass strip 3 mm thick	R.M.	11
606	Glass strip 5 mm thick	R.M.	16

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
607	Glass wool 1 inch thick	Sq.ft	30
608	Glue	Kg.	160
609	Grass	Sq.m.	269
610	Gravel	Cu.m.	424
611	Grills, Flat Iron	Sq.ft.	110
612	Grills, Square bar	Sq.ft.	230
613	Gum	Kg.	65
614	Gypsum board 1/4" thick	Sq.m.	190
615	Gypsum board 3/8" thick	Sq.m.	230
616	Gypsum board 1/2" thick	Sq.m.	270
617	Gypsum powder	Kg.	20
618	Hard board 5 mm thick	Sq.ft.	20
619	Hard board 6 mm. thick	Sq.ft.	30
620	Hard board 8 mm thick	Sq.ft.	40
621	Hanger hook with pullout rod	No.	55
622	Hand pump	No.	2,000
623	Hessian cloth	Sq.m.	47
624	Hessian	Kg.	46
625	Male or female hinges	No.	113
626	Hinges (bolts)	No.	113
627	Hinges with lugs	No.	63
628	Holding device	No.	875
629	Hold fast	Kg.	75
630	Hold fast	No.	25
631	Hooks, iron	Kg.	163
632	Hooks, iron	No.	19
633	Holes (making)	No.	10
634	Holes (punching)	No.	10
635	Iron bolt 0.5" dia	No.	81
636	S.S bolt 0.5" dia		82
637	Iron butt hinge 2"	No.	75
638	Iron butt hinge 4"	No.	75
639	S.S butt hinge 2"		80
640	S.S butt hinge 4"		120
641	Iron handle 4"	No.	75
642	Iron handle 5"	No.	88
643	Iron handle 6"	No.	106
644	S.S handle 4"	No.	150
645	S.S handle 5"	No.	180
646	S.S handle 6"	No.	220
647	Iron hinges 4" size	No.	25
648	Iron hasp & staple 2"	No.	23
649	Iron hasp & staple 3"	No.	31
650	Iron hasp & staple 4"	No.	38

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
651	Iron hasp & staple 5"	No.	56
652	Aluminium U-beading	Kg	450
653	1"x1" 16 guage MS Pipe	Rft	30
654	fibre Glass sheet 1.5 mm	Sft	150
655	fibre Glass sheet (decorative) 2.0 mm	Sft	175
656	Iron helical spring hinges 4"	No.	125
657	Iron peg	No.	38
658	Iron piano hinge	R.ft.	123
659	Iron parliament hinges 4" x 4"	No.	44
660	Iron parliament hinges 5" x 5"	No.	44
661	Iron shoe	No.	31
662	Iron sliding bolt 6" x 1/2"	No.	60
663	Iron sliding bolt 9" x 5/8"	No.	90
664	Iron sliding bolt 10" x 5/8"	No.	125
665	Iron sliding bolt 12" x 5/8"	No.	150
666	Iron sliding bolt 15" x 3/4"	No.	175
667	Iron screws	Kg.	130
668	Iron screw 3/4"	No.	7
669	Iron screw 1"	No.	8
670	Iron screw 1.25	No.	8
671	Iron screw 1.5"	No.	10
672	Iron screw 2"	No.	10
673	Iron screw 2.5"	No.	10
674	Iron screw 3"	No.	10
675	S.S screw 1"	No.	12
676	S.S screw 1.5"	No.	15
677	Magnetic Latches	No.	55
683	Iron socket for floor	No.	8
684	Iron spring hinges 6" - single action	No.	195
685	Iron spring hinges 6" - double action	No.	245
686	S.S spring hinges 6" - Single action	No.	300
687	S.S spring hinges 6" - Single action	No.	350
688	Iron tower bolt 6"	No.	75
689	Iron tower bolt 9"	No.	90
690	Iron tower bolt 12"	No.	110
691	S.S tower bolt 6"	No.	80
692	S.S tower bolt 9"	No.	100
693	S.S tower bolt 12"	No.	120
694	Iron work	Kg.	80
695	Joint - spun yarn + maxphalt composition	Joint	10
696	Jute bag - new	No.	70
697	Jute bag - old	No.	35
698	Jute 2" wide including jute rope tie	R.ft.	40
699	Jutoid W.P. matting (3.2 mm)	Sq.m.	75

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
700	Jutoid W.P. matting (1.6 mm)	Sq.m.	60
701	Lavatory basin	No.	4,500
702	Lavatory basin	No.	6,100
703	Liquid cut back asphalt	Kg.	70
704	Lime	Tonne	7,700
705	Looking mirror	Sq.m.	1,017
706	Lock Grains	Kg.	90
707	Lock drawer alpha make	No.	110
708	Hydraulic door closer New star	No.	1,600
709	Hydraulic door closer HNH make	No.	1,450
710	Lock main door kwikset with handle	No.	5,500
711	Lock union	No.	375
712	Lock Chinese make	No.	1,200
713	Lock Hyundi	No.	1,500
714	Lock yale	No.	6,500
715	Marble chips	Kg.	5
716	Marble tiles - Badal 3/8" thick	Sq.m.	575
717	Marble tiles - Badal 1/2" thick	Sq.m.	517
718	Marble tiles - Badal 3/4" thick	Sq.m.	680
719	Marble tiles - Badal 1" thick	Sq.m.	720
720	Marble slab - Badal 1" thick	Sq.m.	2,260
721	Marble tiles - Badal 6" x 12"	Sq.m.	237
722	Marble tiles - Lasbella 3/8" thick	Sq.m.	650
723	Marble tiles - Lasbella 1/2" thick	Sq.m.	750
724	Marble tiles - Lasbella 3/4" thick	Sq.m.	1,290
725	Marble tiles - Lasbella 1" thick	Sq.m.	1,290
726	Marble slab - Lasbella 1" thick	Sq.m.	3,600
727	Marble tiles - Lasbella 6" x 12"	Sq.m.	323
728	Marble tiles - super white 3/8" thick	Sq.m.	1,190
729	Marble tiles - super white 1/2" thick	Sq.m.	1,290
730	Marble tiles - super white 3/4" thick	Sq.m.	2,152
731	Marble tiles - super white 1" thick	Sq.m.	3,553
732	Marble slab - super white 1" thick	Sq.m.	4,842
733	Marble tiles - super white 6" x 12"	Sq.m.	560
734	Chips zero number	Kg.	7
735	Manure	Cu.m.	300
736	Mansion polish	Kg.	315
737	Marble powder	Kg.	6
738	Methylated spirit	Litre	65
739	Bitumen 80/100	Kg.	80
740	0.25" M.S. Plate	Sq.ft.	80
741	M.S. bail plug 50 mm dia.	No.	449
742	M.S. bail plug 75 mm dia.	No.	676
743	M.S. bail plug 100 mm dia.	No.	1,207

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
744	M.S. bail plug 125 mm dia.	No.	1,591
745	M.S. bail plug 150 mm dia.	No.	1,886
746	M.S. bail plug 175 mm dia.	No.	2,264
747	M.S. bail plug 200 mm dia.	No.	2,461
748	M.S. bail plug 225 mm dia.	No.	2,789
749	M.S. bail plug 250 mm dia.	No.	3,839
750	M.S. bail plug 300 mm dia.	No.	4,626
	M.S. blind pipe seamless		
751	M.S. blind pipe 50 mm dia	R.M	1,115
752	M.S. blind pipe 75 mm dia	R.M	1,602
753	M.S. blind pipe 100 mm dia	R.M	2,126
754	M.S. blind pipe 125 mm dia	R.M	4,237
755	M.S. blind pipe 150 mm dia	R.M	5,005
756	M.S. blind pipe 175 mm dia	R.M	5,839
757	M.S. blind pipe 200 mm dia	R.M	7,242
758	M.S. blind pipe 225 mm dia	R.M	8,312
759	M.S. blind pipe 250 mm dia	R.M	10,903
760	M.S. blind pipe 300 mm dia	R.M	12,822
761	M.S. blind pipe 375 mm dia	R.M	16,033
762	M.S. blind pipe 450 mm dia	R.M	19,931
763	M.S. blind pipe 500 mm dia	R.M	22,145
764	M.S. blind pipe 550 mm dia	R.M	24,360
765	M.S. cap 4" size	No.	550
766	M.S. cap 6" size	No.	750
767	M.S. flat	Kg	75
768	M.S. fastner	No.	10
769	Mild steel bars(G-40)	Tonne	88,000
770	M.S. pipe 10 SWG	R.ft.	65
772	M.S. plate	Kg	85
773	M.S. rod	Kg	55
774	M.S. sheet for formwork	Kg.	70
775	M.S. sheet	Kg.	75
776	M.S. strap	Kg	60
777	M.S. tee iron	Kg	75
778	Mud mortar	Cu.m.	250
779	Mud plaster	Cu.ft.	6
780	Munj ban	Kg.	50
781	Murum	Cu.m.	1,059
782	Nail of all sizes	Kg.	90
783	Namda 1/16" thick	Sq.m.	45
784	Namda 1/2" thick	Sq.m.	185
785	Nipple	No.	30
786	Nuts 9" long with bolts	No.	17
787	Oil kerosine	Litre	88

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
788	Oil linseed boiled	Litre	92
789	Oil - diesel	Litre	96
790	Oil linseed raw	Litre	90
791	Oil Petrol	Litre	88
792	Oil putty	Kg.	90
793	Oil turpentine	kg.	105
794	Patent drier	Gram	33
795	Paint - Anti corrosive	Litre	175
796	Paint - Alkali resisting	Litre	200
797	Paint - Aluminium	Litre	310
798	Painting brush 2"	No.	110
799	Painting brush 4"	No.	350
800	Paint black bituminous	Litre	200
801	Paint black japan	Litre	350
802	Paint Creosote	Litre	205
803	Paint distemper	Kg.	215
804	Paint (mixed at site)	Litres	299
805	Paint - Plastic emulsion	Litre	420
806	Paint red oxide	Litre	202
807	Paint red oxide (2 coats)	Sq.ft.	8
808	Paint snowcem	Kg.	72
809	Paint synthetic lead primer	Litre	2,308
810	Paint solignum	Litre	325
811	Paint - vinyl emulsion	Litre	219
812	Paint red oxide primer	Litre	208
813	Paint synthetic enamel	Litre	325
814	Paint varnish	Litre	234
815	Paint weather coat	Litre	400
816	primer	Litre	350
817	Paper Tape	Roll	55
818	Plastic Emulsion Primer	Litre	175
	P.C.C. pipe, ASTM C-14, Class 2		
819	Pipe 100 mm dia. with collars etc.	R.M.	83
820	Pipe 150 mm dia. with collars etc.	R.M.	99
821	Pipe 200 mm dia. with collars etc.	R.M.	204
822	Pea gravel	Cu.m.	6,356
823	Pigment	Kg.	83
824	Pilchi	Cu.m.	72
825	Plastic wire gauze	Sq.ft.	26
826	Ply - commercial 5 ply	Sq.ft.	45
827	Ply - commercial 3 ply	Sq.ft.	35
828	Ply - shisham 5 ply	Sq.ft.	70
829	Ply - shisham 3 ply	Sq.ft.	35
830	Ply - teak 5 ply	Sq.ft.	85

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
831	Ply - teak 3 ply	Sq.ft.	60
832	Polish bee wax	Litre	425
833	Polish french	Litre	115
834	Polish mansion	Kg.	348
835	Pottery pull, glazed	No.	102
836	Polythene sheet	Sq.m.	80
837	Pudlo	Kg.	70
838	Pucca kam	Kg.	35
839	Pully	Kg.	23
840	Pulley	No.	85
841	U-PVC cap 4" size	No.	90
842	U-PVC cap 6" size	No.	270
	U-PVC bend class B		
843	U-PVC bend 75 mm dia	No.	269
844	U-PVC bend 100 mm dia	No.	392
845	U-PVC bend 125 mm dia	No.	581
846	U-PVC bend 150 mm dia	No.	884
847	U-PVC bend 200 mm dia	No.	1,568
	U-PVC bend class D		
848	U-PVC bend 30 mm dia	No.	42
849	U-PVC bend 40 mm dia	No.	52
850	U-PVC bend 50 mm dia	No.	69
851	U-PVC bend 75 mm dia	No.	161
852	U-PVC bend 100 mm dia	No.	297
853	U-PVC bend 125 mm dia	No.	655
854	U-PVC bend 150 mm dia	No.	1,330
	U-PVC blind pipe class B		
855	U-PVC blind pipe 80 mm dia	R.M.	314
856	U-PVC blind pipe 100 mm dia	R.M.	478
857	U-PVC blind pipe 125 mm dia	R.M.	669
858	U-PVC blind pipe 150 mm dia	R.M.	937
859	U-PVC blind pipe 200 mm dia	R.M.	1,430
860	U-PVC blind pipe 250 mm dia	R.M.	2,310
861	U-PVC blind pipe 300 mm dia	R.M.	3,207
862	U-PVC blind pipe 350 mm dia	R.M.	4,068
	U-PVC blind pipe class D		
863	U-PVC blind pipe 30 mm dia	R.M.	117
864	U-PVC blind pipe 40 mm dia	R.M.	144
865	U-PVC blind pipe 50 mm dia	R.M.	220
866	U-PVC blind pipe 75 mm dia	R.M.	328
867	U-PVC blind pipe 100 mm dia	R.M.	488
868	U-PVC blind pipe 150 mm dia	R.M.	814
	Rigid-PVC conduit pipe		
869	PVC conduit pipe 20 mm dia	R.M.	21

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
870	PVC conduit pipe 25 mm dia	R.M.	30
871	PVC conduit pipe 30 mm dia	R.M.	40
872	PVC conduit pipe 40 mm dia	R.M.	57
873	PVC conduit pipe 50 mm dia	R.M.	76
874	PVC conduit pipe 75 mm dia	R.M.	126
875	PVC conduit pipe 100mm dia	R.M.	196
	U-PVC crosser class B		
876	U-PVC crosser 80 mm dia	No.	135
877	U-PVC crosser 100 mm dia	No.	233
878	U-PVC crosser 125 mm dia	No.	529
879	U-PVC crosser 150 mm dia	No.	857
880	U-PVC crosser 200 mm dia	No.	1,296
881	U-PVC crosser 250 mm dia	No.	1,785
882	U-PVC crosser 300 mm dia	No.	3,280
883	U-PVC crosser 350 mm dia	No.	6,808
	U-PVC crosser class D		
884	U-PVC crosser 30 mm dia	No.	67
885	U-PVC crosser 40 mm dia	No.	141
886	U-PVC crosser 50 mm dia	No.	164
887	U-PVC crosser 80 mm dia	No.	256
888	U-PVC crosser 100 mm dia	No.	441
889	U-PVC crosser 125 mm dia	No.	1,053
890	U-PVC crosser 150 mm dia	No.	1,700
	U-PVC elbow, class B		
891	U-PVC elbow 80 mm dia	No.	146
892	U-PVC elbow 100 mm dia	No.	187
893	U-PVC elbow 125 mm dia	No.	429
894	U-PVC elbow 150 mm dia	No.	580
895	U-PVC elbow 200 mm dia	No.	4,333
896	U-PVC elbow 250 mm dia	No.	5,026
897	U-PVC elbow 300 mm dia	No.	7,279
898	U-PVC elbow 350 mm dia	No.	10,975
	U-PVC elbow, class D		
899	U-PVC elbow 30 mm dia	No.	71
900	U-PVC elbow 40 mm dia	No.	94
901	U-PVC elbow 50 mm dia	No.	118
902	U-PVC elbow 75 mm dia	No.	285
903	U-PVC elbow 100 mm dia	No.	349
904	U-PVC elbow 125 mm dia	No.	317
905	U-PVC elbow 150 mm dia	No.	531
	U-PVC bail /end plug class B		
906	U-PVC end plug 75 mm dia	No.	141
907	U-PVC end plug 100 mm dia	No.	152
908	U-PVC end plug 125 mm dia	No.	198

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
909	U-PVC end plug 150 mm dia	No.	349
910	U-PVC end plug 200 mm dia	No.	389
911	U-PVC end plug 250 mm dia	No.	580
912	U-PVC end plug 300 mm dia	No.	961
913	U-PVC end plug 350 mm dia	No.	1,157
	U-PVC bail /end plug class D		
914	U-PVC end plug 30 mm dia	No.	42
915	U-PVC end plug 40 mm dia	No.	42
916	U-PVC end plug 50 mm dia	No.	60
917	U-PVC end plug 75 mm dia	No.	90
918	U-PVC end plug 100 mm dia	No.	121
919	U-PVC end plug 125 mm dia	No.	226
920	U-PVC end plug 150 mm dia	No.	383
921	P.V.C Jointing solution	Kg.	233
922	U-PVC nosing 30 mm wide	R.M.	83
923	U-PVC nosing 40 mm wide	R.M.	89
924	U-PVC nosing 45 mm wide	R.M.	106
925	U-PVC nosing 50 mm wide	R.M.	115
926	U-PVC off-set 80 mm	No.	217
927	U-PVC off-set 100 mm	No.	221
	PVC socket class D		
928	PVC socket 30 mm dia	No.	54
929	PVC socket 40 mm dia	No.	89
930	PVC socket 50 mm dia	No.	118
931	PVC socket 80 mm dia	No.	221
932	PVC socket 100 mm dia	No.	291
	PVC spout		
933	PVC spout 100 mm dia	R.M.	551
934	PVC spout 50 mm dia	R.M.	314
935	PVC spout 80 mm dia	R.M.	343
	U-PVC strainer class B		
936	U-PVC strainer 75 mm dia	R.M.	314
937	U-PVC strainer 100 mm dia	R.M.	478
938	U-PVC strainer 125 mm dia	R.M.	669
939	U-PVC strainer 150 mm dia	R.M.	937
940	U-PVC strainer 200 mm dia	R.M.	1,430
941	U-PVC strainer 250 mm dia	R.M.	2,310
942	U-PVC strainer 300 mm dia	R.M.	3,207
943	U-PVC strainer 350 mm dia	R.M.	4,068
	U-PVC strainer class D		
944	U-PVC strainer 30 mm dia	R.M.	117
945	U-PVC strainer 40 mm dia	R.M.	144
946	U-PVC strainer 50 mm dia	R.M.	220
947	U-PVC strainer 75 mm dia	R.M.	328

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
948	U-PVC strainer 100 mm dia	R.M.	488
949	U-PVC strainer 125 mm dia	R.M.	814
950	U-PVC strainer 150 mm dia	R.M.	1,210
	U-PVC tapered core class B		
951	U-PVC tapered core 80 mm dia	No.	27
952	U-PVC tapered core 100 mm dia	No.	48
953	U-PVC tapered core 125 mm dia	No.	59
954	U-PVC tapered core 150 mm dia	No.	84
955	U-PVC tapered core 200 mm dia	No.	115
	U-PVC tapered core class D		
956	U-PVC tapered core 30 mm dia	No.	20
957	U-PVC tapered core 40 mm dia	No.	27
958	U-PVC tapered core 50 mm dia	No.	40
	U-PVC tee class B		
959	U-PVC 80 mm dia	No.	233
960	U-PVC 100 mm dia	No.	349
961	U-PVC 125 mm dia	No.	608
962	U-PVC 150 mm dia	No.	955
963	U-PVC 200 mm dia	No.	719
964	U-PVC 250 mm dia	No.	1,504
965	U-PVC 300 mm dia	No.	2,312
966	U-PVC 350 mm dia	No.	6,008
	U-PVC tee class D		
967	U-PVC tee 30 mm dia	No.	54
968	U-PVC tee 40 mm dia	No.	54
969	U-PVC tee 50 mm dia	No.	175
970	U-PVC tee 80 mm dia	No.	349
971	U-PVC tee 100 mm dia	No.	476
972	U-PVC tee 125 mm dia	No.	464
973	U-PVC tee 150 mm dia	No.	580
	U-PVC waste pipe		
974	U-PVC waste pipe 30 mm	No.	175
975	U-PVC waste pipe 40 mm	No.	227
976	PVC water stopper eye letted	R.M.	146
977	PVC water stop 4.5" wide	R.M.	204
978	PVC water stop 6" wide	R.M.	233
979	PVC water stop 8" wide	R.M.	372
980	PVC water stop 9" wide	R.M.	41
981	PVC water stop 12" wide	R.M.	580
982	U-PVC water-stop 18" wide	R.M.	805
983	U-PVC flushing bend 30 mm dia.	No.	71
984	U-PVC flushing bend 40 mm dia.	No.	106
985	Plastic ring 1" dia.	No.	7
986	Plastic ring 1.25" dia.	No.	8

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
987	Rawal plug 1" long	No.	4
988	Rawal plug 2.5" long	No.	7
989	Rawal plug 3" long	No.	9
990	R.C.C cover (2" thick)	Cu.ft.	1,942
991	R.C.C. pipe 4" dia.	R.M.	191
992	R.C.C. pipe 6" dia.	R.M.	233
993	R.C.C. pipe 9" dia	R.M.	302
	R.C.C. pipe, ASTM C-76 wall B		
994	Pipe 225 mm	R.M.	632
995	Pipe 300 mm	R.M.	753
996	Pipe 375 mm	R.M.	955
997	Pipe 450 mm	R.M.	1,157
998	Pipe 525 mm	R.M.	1,538
999	Pipe 600 mm	R.M.	1,792
1000	Pipe 675 mm	R.M.	2,225
1001	Pipe 750 mm	R.M.	2,543
1002	Pipe 825 mm	R.M.	3,121
1003	Pipe 900 mm	R.M.	4,160
1004	Pipe 1050 mm	R.M.	5,604
1005	Pipe 1200 mm	R.M.	6,817
1006	Pipe 1350 mm	R.M.	10,397
1007	Pipe 1500 mm	R.M.	11,552
1008	Pipe 1650 mm	R.M.	13,862
1009	Pipe 1800 mm	R.M.	15,400
1010	R.C.C. pipe 9" dia	R.M.	425
1011	R.C.C. pipe 12" dia	R.M.	640
1012	Retarding Agent	Liter	400
1013	Red lead	Kg.	220
1014	Reg bolt	Kg.	82
1015	Rivets	Kg.	90
1016	R.S. joist	Kg.	82
1017	Rolling shutter	Kg.	125
1018	Rolling shutter M.S. bars	Kg.	90
1019	Round bars	Kg.	82
1020	Ruberoid (3 Ply)	Sq.m.	105
1021	Rubber connection pipe	No.	105
1022	Rubber plug	No.	17
1023	Rubber packing	Sq.ft.	21
1024	Rubber ring 80 mm	No.	72
1025	Rubber ring 100 mm	No.	105
1026	Rubber ring 150 mm	No.	127
1027	Rubber sealing compound	Kg.	275
1028	Set accelerating agent	litre	248
1029	Sand local	Cu.m.	883

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1030	Approved Coarse Sand	Cu.m.	1,059
1031	Sand fine	Kg.	8
1032	Sand paper	No.	20
1033	Screw 3/4"	No.	3
1034	Sealant	Sq.m.	20
1035	Sheath 1-1/4"	R.M.	45
1036	Sheath 1-1/2"	R.M.	60
1037	Self coupling Welded Steel Sheath 1-1/4"	R.M.	40
1038	Self coupling Welded Steel Sheath 1-1/2"	R.M.	50
1039	Shelf, plastic with bracket	No.	160
1040	Crush 3/4" & down gauge	Cu.m.	1,421
1041	Crush 1" & down gauge	Cu.m.	1,112
1042	Crush 1-1/2" & down gauge	Cu.m.	927
1043	Shower tray, glazed	No.	188
1044	Shower kit	No.	1,000
1045	Shower telephonic	No.	1,800
1046	Sink bracket C.I.	Pair	400
1047	Sink C.P. brass waste	No.	375
1048	Sink glazed fire clay 24" x 18"	No.	2,800
1049	Sink pillar tap 2 way	No.	1,200
1050	Sink plug with chain	No.	350
1051	Sink stainless steel 42" x 24"	No.	4,000
1052	Sink stainless steel 36" x 24"	No.	3,000
1053	Sink malleable iron bottle trap	No.	900
1054	Skylight frame, Steel	Sq.ft.	240
1055	Skylight frame, Aluminium - fixed	Sq.ft.	420
1056	Soap dish C.P.	No.	720
1057	Soap dish earthenware	No.	912
1058	Soap dish plastic	No.	270
1059	Soap sunlight	No.	24
1060	Soft board	Sq.m.	300
1061	Socket /union 1/2" dia.	No.	564
1062	Socket /union 3/4" dia.	No.	696
1063	Socket /union 1" dia.	No.	864
1064	Soft wood (0.5" wide, 2" deep)	Sq.m.	114
1065	Stakes	No.	48
1066	Stopper brass	Nos.	378
1067	Stop cock with C.P. cover	No.	1,080
1068	Steel-Mild	Kg.	82
1069	Steel gate, collapsible	Sq.m.	3,000
1070	Steel - deformed bars Grade 40	Tonne	88,000
1071	Steel - deformed bars Grade 60	Tonne	93,000
1072	Steel - torbar, Grade 60	Tonne	85,000
1073	Steel hooks	Nos.	60

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1074	Steel pipe 50 mm. dia.	R.M.	120
1075	Steel pipe 65 mm. dia.	R.M.	197
1076	M.S. section	Kg.	80
1077	M.S. square/ round bars	Kg.	80
1078	Stone ballast crushed 2" and down gauge	Cu.m.	706
1079	Stone ballast 1-1/2" & down gauge	Cu.m.	777
1080	Stone	Cu.m.	706
1081	Stone post	No.	1,500
1082	Stone for pitching	Cu.m.	530
1083	Stone soling	Cu.m.	1,236
1084	Stone sprawl	Cu.m.	1,165
1085	Stiff rubber	R.ft.	28
1086	Sunk handle	No.	33
1087	Surki	Cu.m.	6,380
1088	Super Plastisizer	Litre	450
1089	Sweet earth	Cu.m.	1,412
1090	T-Iron	Kg.	75
1091	Telephone box 20 pair	No.	770
1092	Telephone box 30 to 60 pair	No.	2,640
1093	Telephone box 100 pair	No.	6,270
1094	Telephone rosette	No.	66
1095	Telephone terminal strip 20 pair	No.	451
1096	Telephone terminal strip 30 pair	No.	880
1097	Telephone terminal strip 40 pair	No.	1,199
1098	Telephone terminal strip 60 pair	No.	1,760
1099	Telephone terminal strip 100 pair	No.	2,530
1100	Thermopore sheet 1/2" thick	No.	100
1101	Thermopore sheet 1" thick	No.	180
1102	Thermopore sheet 1-1/2" thick	No.	250
1103	Tiles cement 3/4" thick	Sq.m.	370
1104	Tiles cement 1" thick	Sq.m.	390
1105	Tiles cement 1-1/2" thick	Sq.m.	430
1106	Tiles, facing strips - glazed	Sq. m.	750
1107	Tiles, facing strips - rough glazed.	Sq. m.	700
1108	Tiles, facing strips - unglazed	Sq. m.	650
1109	Ceramic Tile glazed/matt (Prime Quality)	Sq. m.	825
1110	Porcelain Tile glazed/matt (Prime Quality)	Sq. m.	1,000
1111	High Polymer Modified Quickset Tile Adhesive	Kg.	20
1112	Tiles mosaic 1/2" thick	Sq.m.	512
1113	Tiles mosaic 3/4" thick	Sq.m.	325
1114	Tiles mosaic 1" thick	Sq.m.	350
1115	Tiles mosaic 1-1/2" thick	Sq.m.	400
1116	Tiles Premium quality 2 mm thick	Sq.m.	438
1117	Tiles Premium quality 3 mm thick	Sq.m.	665

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1118	Tiles Royal quality 1.8 mm thick	Sq.m.	518
1119	Tiles Royal quality 3 mm thick	Sq.m.	709
	Tuff	Sq.m.	175
1120	Tie rod	No.	38
1121	Toilet paper holder plastic	No.	250
1122	Towel rail plastic	No.	200
1123	Trap, ceramic china	No.	313
1124	Anti Termite Spray	Liter	1,500
	Urinal		
1125	Urinal 6001 coloured	No.	1,000
1126	Urinal 6001 white	No.	1,000
1127	Urinal 6003 coloured	No.	1,200
1128	Urinal 6003 white	No.	1,100
1129	C.I. automatic flushing cistern	No.	2,700
1130	Flush pipe with C.P. accessories	No.	600
1131	C.I. bracket for flushing cistern	Pair	200
1132	PVC waste pipe	No.	150
1133	Rubber connection	No.	85
1134	ICI Varnish synthetic	Liter	2,500
1135	Varnish synthetic clear	Liter	3,500
1136	Vitrified mortar	Kg	8
1137	Washing powder	Sachet	15
1138	Washing powder	Kg	50
1139	Washing soda	Kg	90
	Wash basin		
1140	W.B. 18" (450 mm) coloured	No.	1,680
1141	W.B. 18" (450 mm) white colour	No.	1,500
1142	W.B. 24" coloured ICL Futura 2041/60	No.	2,200
1143	W.B. 24" white colour ICL Futura 2041/60	No.	2,100
1144	W.B. 26" coloured ICL 2032/65	No.	2,300
1145	W.B. 26" white colour ICL 2032/66	No.	2,400
1146	W.B. bolt kit	No.	391
1147	W.B. C.P. brass chain	No.	165
1148	W.B. stop cock	No.	990
1149	Pedestal coloured	No.	1,492
1150	Pedestal white colour	No.	1,320
	Water closet		
1151	W.C. Asian/Orisa/900 coloured	No.	2,500
1152	W.C. Asian/Orisa/900 white	No.	2,800
1153	W.C. Fregate 4006 coloured	No.	5,500
1154	W.C. Fregate 4006 white colour	No.	4,500
1155	W.C. Floride coupled 4030 coloured	No.	2,860
1156	W.C. Floride coupled 4030 white colour	No.	2,750
1157	W.C. Indian 902 coloured	No.	3,500

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1158	W.C. Indian 902 white colour	No.	2,200
1159	W.C. Ifo coloured	No.	8,500
1160	W.C. Ifo white colour	No.	8,800
1161	W.C. Non-coupled 7HU coloured	No.	3,200
1162	W.C. Non-coupled 7HU white colour	No.	3,300
	W.C. cistern		
1163	Cistern 4006 coloured	No.	1,750
1164	Cistern 4006 white colour	No.	1,500
1165	Cistern 4030 coloured	No.	1,600
1165	Cistern 4030 white colour	No.	1,400
1166	Cistern bolt kit	No.	39
1167	Plastic flushing cistern	No.	792
1167	W.C. pan	No.	1,595
1168	W.C. PVC down pipe	No.	77
1169	Seat cover	No.	418
1169	Stop cock 1/2"	No.	990
1170	W.C. trap 4"	No.	138
1171	Vitreous China trap	No.	165
1171	Wetting agent	Litre	198
1172	Welding joints	No.	6
1173	Winder	No.	61
1173	Window, aluminium - hung or sliding	Sq.ft.	550
1174	Window, aluminium - partly fixed/hung or sliding	Sq.ft.	550
1175	Window, aluminium - fixed	Sq.ft.	525
1175	Window, fibre wire gauze	Sq.ft.	135
1176	Window frame, steel - hunged	Sq.ft.	145
1177	Window frame, steel - partly fixed & partly hung	Sq.ft.	125
1177	Wire brush	No.	50
1178	Wire gauze	Sq.ft.	38
1179	Wire mesh	Kg.	110
1179	Wire net	Sq.m.	330
1180	Wire steel	Tonne	112,000
1181	Deodar wood vaneer board 3/4" thick	Sq. ft.	60
1181	Wooden batton 20 mm wide	R.M.	15
1182	Laminated board 3/4" thick	Sq. ft.	50
1183	UV sheet	Sq. ft.	30
1184	Wood - Kail 2nd class	Cu.m.	35,310
1185	Wood - deodar 1st class	Cu.m.	176,550
1186	Wood - deodar 2nd class	Cu.m.	141,240
1187	Fuel wood	Kg.	15
1187	Wood - Kail 1st class	Cu.m.	123,585
1188	Wood - Kikar	Cu.m.	42,372
1189	Wood - Partal	Cu.m.	42,372
1190	Wood - Shisham	Cu.m.	70,620

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1191	Wooden gutees	No.	4
1192	Wooden pegs	No.	12
1192	Wooden pegs 6" to 9"	No.	11
1193	Wooden pegs 9" to 15"	No.	12
1194	Wooden Lipping 25mm wide x 12mm thick=	R.M.	110
1195	Partial Gola 1"x1/4"	R.M.	95
1196	Partial Gola 2"x1"	R.M.	155
1197	Wooden rod for shoes	No.	13
1198	Window stay brass 9"	No.	86
1199	Window stay iron 9"	No.	22
1200	White lead	Kg.	50
	Miscellaneous		
1201	Water	Litre	5
1202	Steel Brush	No.	70
1203	Welding Electrode # 10 (Iron Alloy)	Kg.	115
1204	Eye Bolt	Kg.	40
1205	M.S Clamp	Kg.	80
1206	M.S Hook	Kg.	50
1207	Steel Brush (Large Size)	No.	150
1208	Steel Brush (Small Size)	No.	85
1209	Cutting Disk Size 175mm (7")	No.	185
	High Grip Membrane		
1210	Bitumnen Paper 3mm	Sq.m.	420
1211	Bitumnen Paper 4mm	Sq.m.	440
	Earth		
1212	Good Earth	Cu.m.	415
1213	Soil Class A-4	Cu.m.	420
	Horizontal Capacity		11,000
1214	200 Gls	No.	15,800
1215	250 Gls	No.	18,500
1216	300 Gls	No.	
	Storage Water Tanks (polythyeline) Black (Dura, Super tuff double ply)		
	Vertical Capacity		
1217	200 Gls	No.	10,640
1218	250 Gls	No.	12,080
1219	300 Gls	No.	14,880
1220	350 Gls	No.	15,840
1221	400 Gls	No.	17,840
1222	500 Gls	No.	23,040
1223	1000 Gls	No.	48,800
1224	1200 Gls	No.	57,200
1225	1500 Gls	No.	64,000
1226	1800 Gls	No.	76,800
1227	2500 Gls	No.	105,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
	Horizontal Capacity		
1228	200 Gls	No.	12,300
1229	250 Gls	No.	16,550
1230	300 Gls	No.	18,950
	Zinc Coated Steel Wire		
1231	Zinc Coated Steel Wire 1.95mm dia	Kg.	120
1232	Zinc Coated Steel Wire 2.8mm dia	Kg.	115
	Material for Road Signals and Guard Rail		
	Sign Boards		
1233	Warning sign board (Cat-1) of size 900mm Triangle Shape	No.	13,150
	Road Stud		
1234	Cats-eye Single (Flush surface) Plastic	No.	275
1235	Cats-eye Double (Flush surface) Plastic	No.	285
1236	Cats-eye Single (Raised surface) Plastic	No.	300
1237	Cats-eye Double (Raised surface) Plastic	No.	325
1238	Cats-eye Single (Flush surface) Aluminium	No.	350
1239	Cats-eye Double (Flush surface) Aluminium	No.	375
1240	Cats-eye Single (Raised surface) Aluminium	No.	400
1241	Cats-eye Double (Raised surface) Aluminium	No.	425
1242	Synthetic rubber speed hump 5 Cm high & 35 Cm wide	No.	750
1246	Metal speed hump 5 Cm high & 35 Cm wide	No.	850
	Bamboo		
1247	Bamboo (60 - 120 mm dia) 2.5m to 3.0m long	No.	160
1248	Bamboo (60 - 120 mm dia) 3.0m to 3.75m long	No.	200
1249	Bamboo (60 - 120 mm dia) 3.75m to 4.25m long	No.	220
1250	Bamboo (60 - 120 mm dia) 4.25m to 4.90m long	No.	260
1251	Bamboo (60 - 120 mm dia) 4.90m to 6.25m long	No.	320
1252	Steel-Mild Grade 60	Kg.	74
1253	Rubber Speed Hump 5 Cm high and 35 Cm wide black & yellow	M	92
1254	Granite black (local)	Sq.m.	5,918
1255	Granite black (China)	Sq.m.	7,398
1256	Granite Red Rubi (Indian)	Sq.m.	7,398
1257	Granite Red chilli (Mylasian)	Sq.m.	7,398
1258	Granite Galaxy Black (Indian)	Sq.m.	8,070
1259	Granite baltic brown (Mylasian)	Sq.m.	8,877
1260	Granite camel brown (Mylasian)	Sq.m.	7,398
1261	Granite raw-silk (Mylasian)	Sq.m.	7,398
1262	Granite blue per (Mylasian)	Sq.m.	10,760
	HDPE PIPES (PN-10) SDR-17		
1263	(20mm) outer dia	R.M	41
1264	(25mm) outer dia	R.M	49
1265	(32mm) outer dia	R.M	67
1266	(40mm) outer dia	R.M	106
1268	(50mm) outer dia	R.M	164

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1269	(63mm) outer dia	R.M	260
1270	(75mm) outer dia	R.M	366
1271	(90mm) outer dia	R.M	526
1272	(110mm) outer dia	R.M	782
1273	(125mm) outer dia	R.M	998
1274	(140mm) outer dia	R.M	1,450
1275	(160mm) outer dia	R.M	1,641
1276	(180mm) outer dia	R.M	2,073
1277	(200mm) outer dia	R.M	2,550
1278	(225mm) outer dia	R.M	3,364
1279	(250mm) outer dia	R.M	3,960
1280	(280mm) outer dia	R.M	5,415
1281	(315mm) outer dia	R.M	6,866
1282	(355mm) outer dia	R.M	8,837
1283	(400mm) outer dia	R.M	11,110
1284	(450mm) outer dia	R.M	13,887
1285	(500mm) outer dia	R.M	17,674
1286	(560mm) outer dia	R.M	22,848
1287	(630mm) outer dia	R.M	29,293
1288	(800 mm) outer dia	R.M	40,500
	HDPE PIPES (PN-8) SDR-21		
1289	(20mm) outer dia	R.M	38
1290	(25mm) outer dia	R.M	45
1291	(32mm) outer dia	R.M	62
1292	(40mm) outer dia	R.M	88
1294	(50mm) outer dia	R.M	139
1295	(63mm) outer dia	R.M	212
1296	(75mm) outer dia	R.M	308
1297	(90mm) outer dia	R.M	441
1298	(110mm) outer dia	R.M	638
1299	(125mm) outer dia	R.M	820
1300	(140mm) outer dia	R.M	1,050
1301	(160mm) outer dia	R.M	1,344
1302	(180mm) outer dia	R.M	1,691
1303	(200mm) outer dia	R.M	2,091
1304	(225mm) outer dia	R.M	2,729
1305	(250mm) outer dia	R.M	3,243
1306	(280mm) outer dia	R.M	4,444
1307	(315mm) outer dia	R.M	5,604
1308	(355mm) outer dia	R.M	7,160
1309	(400mm) outer dia	R.M	8,992
1310	(450mm) outer dia	R.M	11,372
1311	(500mm) outer dia	R.M	14,361
1312	(560mm) outer dia	R.M	18,642

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1313	(630mm) outer dia	R.M	24,191
1314	(800 mm) outer dia	R.M	32,500
	HDPE PIPES (PN-12) SDR-13.6		
1315	(20mm) outer dia	R.M	40
1316	(25mm) outer dia	R.M	52
1317	(32mm) outer dia	R.M	84
1318	(40mm) outer dia	R.M	129
1320	(50mm) outer dia	R.M	198
1321	(63mm) outer dia	R.M	315
1322	(75mm) outer dia	R.M	446
1323	(90mm) outer dia	R.M	639
1324	(110mm) outer dia	R.M	945
1325	(125mm) outer dia	R.M	1,215
1326	(140mm) outer dia	R.M	1,650
1327	(160mm) outer dia	R.M	2,002
1328	(180mm) outer dia	R.M	2,546
1329	(200mm) outer dia	R.M	3,136
1330	(225mm) outer dia	R.M	4,320
1331	(250mm) outer dia	R.M	4,882
1332	(280mm) outer dia	R.M	7,947
1333	(315mm) outer dia	R.M	10,719
1334	(355mm) outer dia	R.M	12,524
1335	(400mm) outer dia	R.M	16,554
1336	(450mm) outer dia	R.M	20,948
1337	(500mm) outer dia	R.M	25,607
1338	(560mm) outer dia	R.M	32,322
1339	(630mm) outer dia	R.M	40,746
1340	(800 mm) outer dia	R.M	51,500
1341	Testing, for design purpose, of RCC piles under static loading	1 Job	115,000
1342	Execution of standard sub-soil penetration test	1 Job	11,500
1343	Extraction of undisturbed sample of soil at specified depth	1 Job	9,200
1344	Extraction of disturbed sample of soil at specified depth	1 Job	6,900
1346	Cat Eyes angle iron reflector aluminium body 4"x 2" using diamond	Each	345
	HDPE PIPES (PN-16) SDR-11		-
1347	(13mm) outer dia	R.M	38
1348	(20mm) outer dia	R.M	42
1349	(25mm) outer dia	R.M	62
1350	(32mm) outer dia	R.M	104
1351	(40mm) outer dia	R.M	156
1353	(50mm) outer dia	R.M	242
1354	(63mm) outer dia	R.M	382
1355	(75mm) outer dia	R.M	532
1356	(90mm) outer dia	R.M	771

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1357	(110mm) outer dia	R.M	1,140
1358	(125mm) outer dia	R.M	1,477
1359	(140mm) outer dia	R.M	1,950
1360	(160mm) outer dia	R.M	2,411
1361	(180mm) outer dia	R.M	3,047
1362	(200mm) outer dia	R.M	3,760
1363	(225mm) outer dia	R.M	5,211
1364	(250mm) outer dia	R.M	5,940
1365	(280mm) outer dia	R.M	9,950
1366	(315mm) outer dia	R.M	12,825
1367	(355mm) outer dia	R.M	15,597
1368	(400mm) outer dia	R.M	19,984
1369	(450mm) outer dia	R.M	24,466
1370	(500mm) outer dia	R.M	29,248
1371	(560mm) outer dia	R.M	40,725
1372	(630mm) outer dia	R.M	48,558
1373	(800 mm) outer dia	R.M	60,525
1374	Extruded Polystyrene (50 mm)	Sq.m	888
1375	Extruded Polystyrene (38 mm)	Sq.m	796
1376	Extruded Polystyrene (25 mm)	Sq.m	538
1378	Contractor's profit & overhead		20%
1380	Main ropes 1.25" dia.	R.m	525
1381	Wind guy ropes 1" dia.	R.m	378
1382	Wind guy ropes 3/4" dia.	R.m	260
1383	Wind guy ropes 1/2" dia.	R.m	210
1384	Main cable clamp	No.	850
1385	Transom clamp	No.	850
1386	Road bear clamp	No.	630
1387	Wind guy clamp	No.	420
1388	Wind guy double clamp	No.	420
1389	U Grips 1.5" dia	No.	420
1390	U Grips 1" dia	No.	370
1391	U Grips 3/4" dia	No.	295
1392	Thimble plate 1.5" dia	No.	315
1393	Thimble plate 1" dia	No.	626
1394	Thimble plate 3/4" dia	No.	189
1395	Thimble plate 1/2" dia	No.	160
1396	R.S. Joist transom	R.m	1,548
1397	Coupling machine	No.	20,000
1398	Saddle plates	No.	30,000
1399	Steel runners 3" x 6" dia.	R.m	525
1400	Deck Plate 1/4" Thick	Kg	85
1401	Deck Plate 3/8" Thick	Kg	85
1402	Cable	R.m	112,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1403	Anchorage Cone sets with wedges	No.s	3,300
1404	Corrugated Steel Sheath duct	R.m	45
1405	PE Grout vents		50
1406	PE Grout Tube		47
1407	PVC wrapping tape roll		70
1408	Grout additive		490
1409	Helical core for cable size 12/5mm or 12/7mm		85
1410	Diesel	Litre	96
1411	Mobil Oil	Litre	450
1412	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm a	Sqm	2,718
1413	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	561
1414	Perimeter wall angle 21x21x0.3 mm (3 metre long)	each	354
1415	Intermediate cross T-Section 24x25x0.30mm (1.2 mtrs long)	each	216
1416	Intermediate cross T-Section 24x25x0.30mm (0.6 mtrs long)	each	102
1417	Hanger rod 4 mm thick	each	21
1418	Adjustment clip	each	18
1419	Soffit cleat	each	9
1420	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	144
1421	Water Proofing Admixture	litre	110
1422	Reflective Paint	litre	1,050
1423	Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm)	Sq. M	500
1424	50mm floor and ceiling GI Channel	R.m	180
1425	48mm GI Stud	R.m	60
1426	Pump 2"x1.5" (40-200)	Nos.	119,606
1427	Pump 2.5"x2" (50-160)	Nos.	127,184
1428	Pump 3"x2.5" (65-200)	Nos.	135,828
1429	Pump (32-160)	Nos.	119,296
1430	Pump (40-250)	Nos.	159,205
1431	Pump (50-200)	Nos.	134,639
1432	Pump (80-200)	Nos.	165,257
1433	Motor, 2,900 RPM, 1HP	Nos.	14,336
1434	Motor, 2,900 RPM, 2HP	Nos.	21,907
1435	Motor, 2,900 RPM, 3HP	Nos.	34,835
1436	Motor, 2,900 RPM, 5.5HP	Nos.	46,138
1437	Motor, 2,900 RPM, 7.5HP	Nos.	64,935
1438	Motor, 2,900 RPM, 10HP	Nos.	83,718
1439	Motor, 2,900 RPM, 15HP	Nos.	116,626
1440	Motor, 2,900 RPM, 20HP	Nos.	151,809

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1441	Motor, 2,900 RPM, 25HP	Nos.	169,462
1442	Motor, 2,900 RPM, 30HP	Nos.	200,633
1443	Motor, 2,900 RPM, 40HP	Nos.	218,925
1444	Mono Block PumpSet, 4HP	Nos.	39,699
1445	Mono Block PumpSet, 5HP	Nos.	44,662
1446	Mono Block PumpSet, 7.5HP	Nos.	61,410
1447	Mono Block PumpSet, 10HP	Nos.	82,024
1448	Mono Block PumpSet, 15HP	Nos.	104,238
1449	Submersible Pumpset,4HP	Nos.	249,810
1450	Submersible Pumpset, 5HP	Nos.	299,205
1451	Submersible Pumpset, 6 HP	Nos.	321,412
1452	Submersible Pumpset, 7.5HP	Nos.	352,746
1453	Submersible Pumpset, 10HP	Nos.	406,688
1454	Submersible Pumpset, 12.5 HP	Nos.	437,447
1455	Submersible Pumpset, 15 HP	Nos.	489,280
1456	Submersible Pumpset, 17.5 HP	Nos.	489,542
1457	Submersible Pumpset, 20 HP	Nos.	607,368
1458	Submersible Pumpset, 25 HP	Nos.	663,084
1459	Submersible Pumpset, 30 HP	Nos.	834,478
1460	Motor Control Panel, 3HP	Nos.	2,966
1461	Motor Control Panel, 5.5HP	Nos.	2,966
1462	Motor Control Panel, 10HP	Nos.	3,742
1463	Motor Control Panel, 15HP	Nos.	16,170
1464	Motor Control Panel, 20HP	Nos.	22,107
1465	Motor Control Panel, 25HP	Nos.	23,447
1466	Motor Control Panel, 30HP	Nos.	31,070
1467	Diesel Engine, 6 HP	Nos.	60,000
1468	Diesel Engine, 8 HP	Nos.	75,000
1469	Diesel Engine, 10 HP	Nos.	90,000
1470	Diesel Engine, 16 HP	Nos.	150,000
1471	Diesel Engine, 20 HP	Nos.	225,000
1472	Diesel Engine, 25 HP	Nos.	300,000
1473	Diesel Engine, 30 HP	Nos.	400,000
1474	Diesel Engine, 32 HP	Nos.	450,000
1475	Diesel Engine, 36 HP	Nos.	550,000
1476	Self Start Accessories with Battery	LS	19,320
1477	Base Plate and Coupling for Diesel Engine including Belts and Brackets	LS	15,120
1478	Assemble for Diesel Engine and pump with direct suction and double shaft	LS	29,400
1479	Tractor Assembly	LS	25,200

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1480	PVC Pipe, 6 inches, B-Class	R.m	675
1481	PVC Pipe, 5 inches, B-Class	R.m	482
1482	PVC Pipe, 4 inches, B-Class	R.m	347
1483	PVC Pipe, 3 inches, B-Class	R.m	228
1484	PVC Pipe, 2.5 inches, C-Class	R.m	139
1485	PVC Pipe, 2 inches, C-Class	R.m	163
1486	PVC Pipe, 1.5 inches, D-Class	R.m	105
1487	PVC Pipe, 1.25 inches, D-Class	R.m	80
1488	UPVC Pipe, 1 inch, E-Class	R.m	63
1489	UPVC Pipe, 0.75 inch, E-Class	R.m	42
1490	UPVC Pipe, 0.5 inch, E-Class	R.m	29
1491	PVC Pipe, 25 mm, PN-6	R.m	39
1492	PVC Pipe, 32 mm, PN-6	R.m	50
1493	PVC Pipe, 40 mm, PN-6	R.m	63
1494	PVC Pipe, 50 mm, PN-6	R.m	79
1495	PVC Pipe, 63 mm, PN-6	R.m	101
1496	PVC Pipe, 75 mm , PN-6	R.m	139
1497	PVC Pipe, 90 mm, PN-6	R.m	181
1498	PVC Pipe, 110 mm, PN-6	R.m	276
1499	PVC Pipe, 140 mm, PN-6	R.m	425
1500	PVC Pipe, 160 mm, PN-6	R.m	582
1501	PE Pipe, 110 mm, PN-8	R.m	397
1502	PE Pipe, 90 mm, PN-8	R.m	264
1503	PE Pipe, 75 mm, PN-8	R.m	184
1504	PE Pipe, 63 mm, PN-8	R.m	129
1505	PE Pipe, 50 mm, PN-8	R.m	81
1506	PE Pipe, 40 mm, PN-8	R.m	55
1507	PE Pipe, 110 mm, PN-10	R.m	489
1508	PE Pipe, 90 mm, PN-10	R.m	328
1509	PE Pipe, 75 mm, PN-10	R.m	223
1510	PE Pipe, 63 mm, PN-10	R.m	161
1511	PE Pipe, 50 mm, PN-10	R.m	101
1512	PE Pipe, 40 mm, PN-10	R.m	65
1513	Sand Media/Gravel Filter, 10m3/hr	Nos.	32,962
1514	Sand Media/Gravel Filter, 20m3/hr	Nos.	37,671
1515	Sand Media/Gravel Filter, 25m3/hr	Nos.	46,131
1516	Sand Media/Gravel Filter, 30m3/hr	Nos.	47,088
1517	Sand Media/Gravel Filter, 35m3/hr	Nos.	51,797
1518	Sand Media/Gravel Filter, 40m3/hr	Nos.	55,358
1519	Sand Media/Gravel Filter, 45m3/hr	Nos.	61,624

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1520	Sand Media/Gravel Filter, 50m3/hr	Nos.	69,219
1521	Sand Media/Gravel Filter, 60m3/hr	Nos.	73,457
1522	Disc Filter, 15m3/hr	Nos.	9,417
1523	Disc Filter, 20m3/hr	Nos.	13,109
1524	Disc Filter, 25m3/hr	Nos.	18,452
1525	Disc Filter, 30m3/hr	Nos.	18,835
1526	Disc Filter, 35m3/hr	Nos.	19,777
1527	Disc Filter, 40m3/hr	Nos.	22,143
1528	Disc Filter, 45m3/hr	Nos.	25,898
1529	Disc Filter, 50m3/hr	Nos.	26,391
1530	Disc Filter, 60m3/hr	Nos.	26,756
1531	Screen Filter, 15m3/hr	Nos.	6,592
1532	Screen Filter, 20m3/hr	Nos.	7,534
1533	Screen Filter, 25m3/hr	Nos.	7,534
1534	Screen Filter, 30m3/hr	Nos.	8,476
1535	Screen Filter, 35m3/hr	Nos.	8,495
1536	Screen Filter, 40m3/hr	Nos.	15,021
1537	Semi Automatic Cleaning/screening Filter, 15m3/hr	Nos.	9,168
1538	Semi Automatic Cleaning/screening Filter, 20m3/hr	Nos.	10,834
1539	Semi Automatic Cleaning/screening Filter, 25m3/hr	Nos.	16,668
1540	Semi Automatic Cleaning/screening Filter, 30m3/hr	Nos.	16,668
1541	Semi Automatic Cleaning/screening Filter, 35m3/hr	Nos.	18,336
1542	Hydrocyclone Filter, 15m3/hr	Nos.	16,387
1543	Hydrocyclone Filter, 20m3/hr	Nos.	18,835
1544	Hydrocyclone Filter, 25m3/hr	Nos.	22,475
1545	Hydrocyclone Filter, 30m3/hr	Nos.	23,544
1546	Hydrocyclone Filter, 35m3/hr	Nos.	23,544
1547	Hydrocyclone Filter, 40m3/hr	Nos.	23,544
1548	Hydrocyclone Filter, 45m3/hr	Nos.	30,589
1549	Hydrocyclone Filter, 50m3/hr	Nos.	31,078
1550	Hydrocyclone Filter, 80m3/hr	Nos.	46,301
1551	Ventury Assembly, 0.75"	Nos.	1,768
1552	Ventury Assembly, 1"	Nos.	2,917
1553	Ventury Assembly, 1.5"	Nos.	5,433
1554	Ventury Assembly, 2"	Nos.	5,834
1555	Fertilizer Tank, 30 litres	Nos.	8,981
1556	Fertilizer Tank, 60 litres	Nos.	12,501
1557	Fertilizer Tank, 90 litres	Nos.	13,880
1558	Fertilizer Tank, 120 litres	Nos.	16,330
1559	Fertilizer Tank, 150 litres	Nos.	17,963

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1560	Fertilizer Tank, 200 litres	Nos.	23,853
1561	Micro Tube 4 mm, (WT 1 mm)	R.m	5
1562	Extension Tube, 6 mm (WT 1 mm)	R.m	7
1563	Drip Line Plain,12 mm (WT 1 mm)	R.m	11
1564	Drip Line Plain, 15 mm (WT 1 mm)	R.m	14
1565	Drip Line Plain 16mm (WT 1.2 mm)	R.m	18
1566	Drip Line Plain 20 mm (WT 1.5 mm)	R.m	26
1567	Drip Line Plain 25 mm (WT 1.5 mm)	R.m	42
1568	Drip Line Plain 32 mm (WT 2.0 mm)	R.m	50
1569	Integrated Drip Line 16 mm, Emitter spacing at 0.20 m	R.m	20
1570	Integrated Drip Line 16 mm, Emitter spacing at 0.30 m	R.m	19
1571	Integrated Drip Line 16 mm, Emitter spacing at 0.40 m	R.m	18
1572	Integrated Drip Line 16 mm, Emitter spacing at 0.50 m	R.m	19
1573	Integrated Drip Line 16 mm, Emitter spacing at 0.60 m	R.m	20
1574	Integrated Drip Line 20 mm, Emitter spacing at 0.30 m	R.m	24
1575	Integrated Drip Line 20 mm, Emitter spacing at 0.40 m	R.m	22
1576	Integrated Drip Line 20 mm, Emitter spacing at 0.50 m	R.m	24
1577	Integrated Drip Line 20 mm, Emitter spacing at 0.60 m	R.m	24
1578	Dripper (20 LPH, PC)	Nos.	14
1579	Dripper (24 LPH, PC)	Nos.	14
1580	Dripper (40 LPH, PC)	Nos.	16
1581	Dripper (70 LPH, PC)	Nos.	16
1582	Dripper (80 LPH, PC)	Nos.	18
1583	Emitter (Turbulent Flow)	Nos.	10
1584	Emitter (60 LPH, Adjustable)	Nos.	15
1585	GI Sheet 26 SWG (including PST)	Kg	146
1586	GI Sheet 24 SWG (including PST)	Kg	146
1587	GI Sheet 22 SWG (including PST)	Kg	146
1588	GI Sheet 20 SWG (including PST)	Kg	146
1589	GI Sheet 18 SWG (including PST)	Kg	146
1590	Aluminium Revits	Kg	250
1591	Duct Sealent	Sft	20
1592	1-1/2" x 1-1/2" x 3/8" Angle	Nos.	200
1593	1-1/4" x 1-1/4" x 1/8" Angle rod	Nos.	320
1594	3/8" expansion bolts	Nos.	25
1595	Threaded rod bars 3/8" dia	Nos.	105
1596	Supply & Return of Air Diffusers (Code: A & B) Complete in all respects (4 Sft for calculations)	Sq.m	13,450
1597	Supply & Return Register(Code D) Complete in all respects (4 Sft for calculations)	Sq.m	11,298
1598	Balancing Valve 25 mm	Nos.	1,850

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1599	Balancing Valve 32 mm	Nos.	2,250
1600	Balancing Valve 40 mm	Nos.	5,500
1601	Balancing Valve 50 mm	Nos.	26,000
1602	Balancing Valve 75 mm	Nos.	34,000
1603	Balancing Valve 8"	Nos.	140,000
1604	Balancing Valve 10"	Nos.	230,000
1605	2'-9" high Stair railing comprising of 2½" dia 16 gauge S.S pipe hand	R.ft	1,500
1606	Impact Sprinkler 5022, NAADANJAIN, 0.36-0.76 m ³ /hr Radius 9-11 m	Nos.	744
1607	Impact Sprinkler plastic, Premere, 0.36-0.76 m ³ /hr Radius 9-11 m	Nos.	708
1608	Micro Sprinkler/sprayer/jet (R-1.5m)	Nos.	20
1609	Sprinkler B2A, Zirve, 3.33-11.25 m ³ /hr Radius 18-26 m	Nos.	4,291
1610	Mister (Complete set), 40 lph	Nos.	232
1611	Mister (Complete set), 60 lph	Nos.	255
1612	Mister (Complete set), 80 lph	Nos.	278
1613	Mister (Complete set), 120 lph	Nos.	301
1614	Micro Sprinkler (Complete set), 40 lph	Nos.	278
1615	Micro Sprinkler (Complete set), 60 lph	Nos.	301
1616	Micro Sprinkler (Complete set), 80 lph	Nos.	324
1617	Micro Sprinkler (Complete set), 120 lph	Nos.	347
1618	Fogger, imported/ISO, (Q=10.5 LPH, Conic, FLF-Single outlet	Nos.	102
1619	Fogger, imported/ISO, (Q=5.4 LPH, Conic, FLF-Single outlet	Nos.	102
1620	Fogger, imported/ISO, (Q=5.4 LPH, Barb, FLF-Double outlet	Nos.	150
1621	Fogger, imported/ISO, (Q=10.5 LPH, Barb, FLF-Double outlet	Nos.	150
1622	Fogger, imported/ISO, (Q=10.5 LPH, Barb, FLF-4 Way outlet	Nos.	240
1623	Fogger, imported/ISO, (Q=10.5 LPH, Barb, FLF-4 Way outlet	Nos.	240
1624	Rain Gun, Komet (Part Circle)	Nos.	78,877
1625	Rain Gun, Komet (Full Circle)	Nos.	70,000
1626	Pressure Regulator (20 -100 GPM), SENNINGER-USA	Nos.	3,417
	PPRC PIPES (PN-20)		-
1627	(13mm) outer dia	R.M	41
1628	(20mm) outer dia	R.M	47
1629	(25mm) outer dia	R.M	64
1630	(32mm) outer dia	R.M	111
1631	(40mm) outer dia	R.M	162
1632	(50mm) outer dia	R.M	236
1633	(63mm) outer dia	R.M	397
1634	(75mm) outer dia	R.M	552
1635	(90mm) outer dia	R.M	795
1636	(110mm) outer dia	R.M	1,182

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1637	Paver 60 mm (4500 Psi) Grey	Sq.m	646
1638	Paver 60 mm (4500 Psi) Coloured	Sq.m	667
1639	Paver 80 mm (7000 Psi) Coloured	Sq.m	1,022
1640	Paver 80 mm (7000 Psi) Grey	Sq.m	1,076
1641	Kerb Stone (300mm x 350mm x 150mm)	Nos.	220
1642	Kerb Stone (300mm x 450mm x 150mm)	Nos.	280
1643	SOLAR PANEL (Chinese)	Per Watt	60
1644	SOLAR INVERTER (Chinese)	per VA	20
1645	SOLAR CHARGE CONTROLLER (Chinese)	Per Amp @ 12/24 Volts	900
1646	SOLAR MOUNTING STRUCTURE	Per Watt	12
1647	SOLAR CABLES (Chinese)	Per Watt	12
1648	BATTERIES-LEAD ACID (Chinese)	per 100 AH	15,000
1649	BATTERIES-MAINTENANCE FREE (Chinese)	per 100 AH	17,000
1650			
1651	INVERTER (European)	Per Watt	50
1652	CHARGE CONTROLLER (European)	Amp	1,833
1653	SOLAR CABLES (European)	Per Watt	10
1654	BATTERY-LEAD ACID (European)	per 100 AH	15,000
1655	BATTERY-MAINTENANCE FREE (1000 cycles)	per 100 AH	24,000
1656	Surface / Recessed, Ceiling mounted Dome, Fixed Type PoE, I.P Camera (Chinese)	Nos.	61,924.43
1657	Wall / Ceiling Mounted, Indoor / Outdoor, Day/Night Color Dome PTZ Camera	Nos.	266,745.70
1658	Wall bracket box Camera, Type PoE I.P camera	Nos.	121,982.80
1659	Network Video Recorder – 64 Channel (Chinese)	Nos.	2,624,266
1660	Operator's Workstation	Nos.	140,810
1661	Fixed configuration PoE enabled manageable layer-2 switch	Nos.	49,928
1662	Fixed configuration manageable layer-2 aggregation switch	Nos.	204,627
1663	Fixed configuration manageable layer-2 switch with Rack Mount Kit	Nos.	59,791
1664	Video Management Software with Video Management / Recording Server	Nos.	683,990
1665	DC Cable 4mm2 Single Core	R.M	56
1666	DC Cable 4mm2 Two Core	R.M	138
1667	DC Cable 6mm2 Single Core	R.M	81
1668	DC Cable 6mm2 two Core	R.M	200
1669	DC Cable 6mm2 four Core	R.M	388
1670	DC Cable 10mm2 Single Core	R.M	138
1671	DC Cable 10mm2 two Core	R.M	325
1672	DC Cable 10mm2 Four Core	R.M	580
1673	DC Cable 16mm2 Four Core	R.M	899
1674	DC Cable 16mm2 two Core	R.M	676
1675	DC Cable 16mm2 single Core	R.M	200

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1676	DC Cable 25mm2 single Core	R.M	310
1677	DC Cable 25mm2 two Core	R.M	1,204
1678	DC Cable 25mm2 Four Core	R.M	1,459
1679	DC Cable 35mm2 single Core	R.M	433
1680	DC Cable 35mm2 Four Core	R.M	1,954
1681	Stranded Cable 16mm2 Four Core	R.M	640
1682	Stranded Cable 16mm2 two Core	R.M	308
1683	Stranded Cable 16mm2single Core	R.M	146
1684	Stranded Cable 25mm2 Four Core	R.M	975
1685	Stranded Cable 25mm2 two Core	R.M	496
1686	Stranded Cable 25mm2single Core	R.M	229
1687	Stranded Cable 35mm2 Four Core	R.M	1,330
1688	Stranded Cable 35mm2 two Core	R.M	674
1689	Stranded Cable 35mm2single Core	R.M	315
1690	Stranded Cable 50mm2 Four Core	R.M	1,795
1691	Stranded Cable 50mm2 two Core	R.M	906
1692	Stranded Cable 50mm2single Core	R.M	425
1693	Stranded Cable 70mm2 Four Core	R.M	2,564
1694	Stranded Cable 70mm2 two Core	R.M	1,291
1695	Stranded Cable 70mm2single Core	R.M	611
1696	Stranded Cable 90mm2 Four Core	R.M	3,546
1697	Stranded Cable 90mm2 two Core	R.M	1,783
1698	Stranded Cable 90mm2single Core	R.M	848
1699	Stranded Cable 120mm2Four Core	R.M	4,453
1700	Stranded Cable 120mm2 two Core	R.M	2,238
1701	Stranded Cable 120mm2single Core	R.M	1,068
1702	Stranded Cable 150mm2Four Core	R.M	5,471
1703	Stranded Cable 150mm2 two Core	R.M	2,748
1704	Stranded Cable 150mm2single Core	R.M	1,311
1705	Stranded Cable 170mm2Four Core	R.M	6,846
1706	Stranded Cable 170mm2 two Core	R.M	3,440
1707	Stranded Cable 170mm2single Core	R.M	1,680
1708	Stranded Cable 230mm2Four Core	R.M	8,973
1709	Stranded Cable 230mm2 two Core	R.M	4,503
1710	Poly Carbonate corrugated sheet complete with supporting Frame	Sq.m.	2,690
1711	Poly Conbonate Four Wall sheet complete with supporting frame	Sq.m.	3,228
1712	Laminated Gypsum Board with suspension System (1/4")	Sq.m.	484
1713	Laminated Gypsum Board with suspension System (1/2")	Sq.m.	538
1714	Laminated Gypsum Board with suspension System (3/4")	Sq.m.	592
1715	Gypsum Board with suspension System (1/2-3/4")	Sq.m.	538

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1716	Wood - Teak	Cu.m.	282,480
1717	Chemical Polish	Litre	500
1718	Dorma Set of Floor Hinges	Set	9,500
1719	UV MDF High Gloss Board	Sq.ft.	210
1720	3/4" thich PVC High Gloss Laminated Board	Sq.ft.	180
1721	3/4" thich PVC Plain Laminated Board	Sq.ft.	100
1722	3/4" MDF Board (Local) without lamination	Sq.ft.	60
1723	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in plain colours	Sq.ft.	375
1724	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in wooden texture	Sq.ft.	625
1725	30 mm thick Factory made PVC shutters	Sq.m.	5,500
1726	37 mm thick Factory made PVC shutters	Sq.m.	6,500
1727	PVC Window 1.6 mm	Sq.m.	7,532
1728	Premoulded Joint Filler 12 Mm Thick With Bitumastic Joint Seal	Sq.m.	2,336
1729	Neoprene Rubber Joint Filler 12 Mm Thick With Bitumastic Joint Seal	Sq.m.	1,071
1730	Steel Expansion Joints (Local)	Kg	181
1731	Expansion Joint With Two Extruded Aluminium Alloy Sections For 50mm Movement (USA/EU Make)	R.M	47,750
1732	Expansion Joint With Cast Aluminium Alloy Triangular Teeth For 110mm Movement (USA/EU Make)	R.M	120,000
1733	Expansion Joint With Cast Aluminium Alloy Cantilever Teeth For 300mm Movement (USA/EU Make)	R.M	400,000
1734	Expansion Joint Monobloc Type For 65mm Movement (USA/EU Make)	R.M	44,500
1735	Weather Sealant - Non Staining	Litre	1,000
1736	Weather Sealant - Normal	Litre	600
1737	Anchor Fastner	Nos.	250
1738	SS Bolt with Washer of Sizes for Structural Glazing	Nos.	70
1739	4 mm thick ACP	Sq.m	2,400
1740	Protective Tape	RM	50
1741	Baker Rod Metre	RM	23
1742	GI Flashing - 1.2 mm Thick	Kg	130
1743	Aluminium Alloy Brackets	Kg	200
1744	EPDM Gasket in Kg	Kg	300
1745	Road blocker 3.5 feet width , 2.5 feet height with Italian power pack unit including accumuator	R.M	478,333
1746	Road boom barrier	Nos.	385,000
1747	Door access control system	Nos.	55,000
1748	Wakthrough gate of 33 zones	Nos.	385,000
1749	Tyre killer	R.M	45,000
1750	Bullet protection film for Bullet proofing of Glass (9mm pistol)	Sq.m	2,750

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1751	1/2" MDF Board (Local) without lamination	Sq.ft.	45
1752	Instant Gas Gyser (6 Litre Capacity)	Nos.	5,500
1753	Instant Gas Gyser (8 Litre Capacity)	Nos.	7,500
1754	Instant Gas Gyser (10 Litre Capacity)	Nos.	9,500
1755	Instant Gas Gyser (12 Litre Capacity)	Nos.	12,500
1756	Instant Gas Gyser (16 Litre Capacity)	Nos.	14,400
1757	Instant Gas Gyser (20 Litre Capacity)	Nos.	18,500
1758	MS strainer 50 mm dia	R.M.	1,115
1759	MS strainer 75 mm dia	R.M.	1,602
1760	MS strainer 100 mm dia	R.M.	2,126
1761	MS strainer 125 mm dia	R.M.	4,237
1762	MS strainer 150 mm dia	R.M.	5,005
1763	MS strainer 175 mm dia	R.M.	5,839
1764	MS strainer 200 mm dia	R.M.	7,242
1765	MS strainer 225 mm dia	R.M.	8,312
1766	MS strainer 250 mm dia	R.M.	10,903
1767	MS strainer 250 mm dia	R.M.	12,822
1768	MS strainer 300 mm dia	R.M.	16,033
1769	MS strainer 375 mm dia	R.M.	19,931
1770	MS strainer 450 mm dia	R.M.	22,145
1771	MS strainer 500 mm dia	R.M.	24,360
1772	MS strainer 550 mm dia	R.M.	26,500
1773	Chinese make SJS Tested Pump 2"x1.5" (40-200)	Nos.	119,606
1774	Chinese make Pump 2.5"x2" (50-160)	Nos.	127,184
1775	Pump 3"x2.5" (65-200)	Nos.	135,828
1776	Chinese make Pump (32-160)	Nos.	119,296
1777	Chinese make Pump (40-250)	Nos.	159,205
1778	Chinese make Pump (50-200)	Nos.	134,639
1779	Chinese make Pump (80-200)	Nos.	165,257
1780	Chinese make Motor, 2,900 RPM, 1HP	Nos.	14,336
1781	Chinese make Motor, 2,900 RPM, 2HP	Nos.	21,907
1782	Chinese make Motor, 2,900 RPM, 3HP	Nos.	34,835
1783	Chinese make Motor, 2,900 RPM, 5.5HP	Nos.	46,138
1784	Chinese make Motor, 2,900 RPM, 7.5HP	Nos.	64,935
1785	Chinese make Motor, 2,900 RPM, 10HP	Nos.	83,718
1786	Chinese make Motor, 2,900 RPM, 15HP	Nos.	116,626
1787	Chinese make Motor, 2,900 RPM, 20HP	Nos.	151,809
1788	Chinese make Motor, 2,900 RPM, 25HP	Nos.	169,462

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1789	Chinese make Motor, 2,900 RPM, 30HP	Nos.	200,633
1790	Chinese make Motor, 2,900 RPM, 40HP	Nos.	218,925
1791	Chinese make Mono Block PumpSet, 4HP	Nos.	39,699
1792	Chinese make Mono Block PumpSet, 5HP	Nos.	44,662
1793	Chinese make Mono Block PumpSet, 7.5HP	Nos.	61,410
1794	Chinese make Mono Block PumpSet, 10HP	Nos.	82,024
1795	Chinese make Mono Block PumpSet, 15HP	Nos.	104,238
1796	Chinese make Submersible Pumpset,4HP	Nos.	45,000
1797	Chinese make Submersible Pumpset, 5HP	Nos.	55,000
1798	Chinese make Submersible Pumpset, 6 HP	Nos.	60,000
1799	Chinese make Submersible Pumpset, 7.5HP	Nos.	75,000
1800	Chinese make Sub Submersible Pumpset, 10HP	Nos.	90,000
1801	Chinese make Sub Submersible Pumpset, 12.5 HP	Nos.	110,000
1802	Chinese make Sub Submersible Pumpset, 15 HP	Nos.	135,000
1803	Chinese make Sub Submersible Pumpset, 17.5 HP	Nos.	150,000
1804	Chinese make Sub Submersible Pumpset, 20 HP	Nos.	175,000
1805	Chinese make Sub Submersible Pumpset, 25 HP	Nos.	200,000
1806	Chinese make Submersible Pumpset, 30 HP	Nos.	225,000
1807	Chinese make Submersible Pumpset, 40 HP	Nos.	240,000
1808	Chinese make Sub Motor Control Panel, 5.5HP	Nos.	2,966
1809	Chinese make Sub Motor Control Panel, 10HP	Nos.	3,742
1810	Chinese make Sub Motor Control Panel, 15HP	Nos.	16,170
1811	Chinese make Sub Motor Control Panel, 20HP	Nos.	22,107
1812	Chinese make Sub Motor Control Panel, 25HP	Nos.	23,447
1813	Chinese make Sub Motor Control Panel, 30HP	Nos.	31,070
	PPRC Fittings (As per approved manufacturers)		
	Elbow 90o		
1814	20 mm	Each	22.00
1815	25 mm	Each	14.30
1816	32 mm	Each	25.30
1817	40 mm	Each	41.80
1818	50 mm	Each	132.00
1819	63 mm	Each	201.30
1820	75 mm	Each	880.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1821	90 mm	Each	1694.00
1822	110 mm	Each	2681.80
	Elbow 45o		
1823	20 mm	Each	24.20
1824	25 mm	Each	27.50
1825	32 mm	Each	45.10
1826	40 mm	Each	62.70
1827	50mm	Each	217.80
1828	63 mm	Each	467.50
1829	75 mm	Each	831.60
1830	90 mm	Each	1171.50
	Equal Tee		
1831	20 mm	Each	24.20
1832	25 mm	Each	17.60
1833	32 mm	Each	33.00
1834	40 mm	Each	50.60
1835	50 mm	Each	145.20
1836	63 mm	Each	295.90
1837	75 mm	Each	985.60
1838	90 mm	Each	2307.80
1839	110 mm	Each	2994.20
	Socket		
1840	20 mm	Each	17.60
1841	25 mm	Each	9.90
1842	32 mm	Each	17.60
1843	40 mm	Each	29.70
1844	50 mm	Each	83.60
1845	63 mm	Each	145.20
1846	75 mm	Each	528.00
1847	90 mm	Each	720.50
1848	110 mm	Each	1174.80
	Reducing Elbow		
1849	25-20	Each	59.40
1850	32-25	Each	66.00
	Reducing Socket		
1851	25-20	Each	17.60
1852	32-20	Each	20.90
1773	32-25	Each	18.70
1774	40-20	Each	51.70
1775	40-25	Each	48.40

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1776	40-32	Each	36.30
1777	50-20	Each	59.40
1778	50-25	Each	51.70
1779	50-32	Each	51.70
1780	50-40	Each	96.80
1781	63-20	Each	138.60
1782	63-25	Each	112.20
1783	63-32	Each	114.40
1784	63-40	Each	117.70
1785	63-50	Each	166.10
1786	75-40	Each	693.00
1787	75-50	Each	617.10
1788	75-63	Each	614.90
1789	90-63	Each	536.80
1790	90-75	Each	589.60
1791	110-75	Each	728.20
1792	110-90	Each	907.50
1793	End Cap		
1794	20 mm	Each	18.70
1795	25 mm	Each	11.00
1796	32 mm	Each	16.50
1797	40 mm	Each	74.80
1798	50 mm	Each	83.60
1799	63 mm	Each	121.00
1800	75 mm	Each	627.00
	Reducing Tee		
1801	20 X 25 X 20 mm	Each	38.50
1802	25 X 20 X 25 mm	Each	24.20
1803	32 x 25 x 32mm	Each	35.20
1804	32 x 25 x 20mm	Each	56.10
1805	32 X 20 X 20 mm	Each	55.00
1806	32 X 20 X 32 mm	Each	48.40
1807	40 X 20 X 40 mm	Each	57.20
1808	40 X 25 X 40 mm	Each	60.50
1809	40 X 32 X 40 mm	Each	66.00
1810	50 X 20 X 50 mm	Each	199.10
1811	50 X 25 X 50 mm	Each	199.10
1812	50 X 32 X 50 mm	Each	207.90
1813	50 X 40 X 50 mm	Each	207.90
1814	63 x 20 x 63 mm	Each	484.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1815	63 X 25 X 63 mm	Each	235.40
1816	63 X 32 X 63 mm	Each	256.30
1817	63 X 40 X 63 mm	Each	332.20
1818	63 X 50 X 63 mm	Each	346.50
1819	75 x 25 x 75 mm	Each	1201.20
1820	75 x 32 x 75 mm	Each	1372.80
1821	75 x 40 x 75 mm	Each	1749.00
1822	75 x 50 x 75 mm	Each	1749.00
1823	75 X 63 X 75 mm	Each	1144.00
1824	90 x 50 x 90 mm	Each	3573.90
1825	90 x 63 x 90 mm	Each	3573.90
1826	110 x 50 x 110 mm	Each	5789.30
1827	110 x 63 x 110 mm	Each	5789.30
	Elbow Female		0.00
1828	20 X 1/2"	Each	55.00
1829	20 X 3/4"	Each	270.60
1830	25 X 1/2"	Each	64.90
1831	25 X 3/4"	Each	85.80
1832	32 X 1/2"	Each	112.20
1833	32 X 3/4"	Each	126.50
1834	32 X 1"	Each	166.10
1835	40 X 1-1/4"	Each	299.20
1836	50 X 1-1/2"	Each	970.20
1837	63 X 2"	Each	1684.10
	Elbow Male		0.00
1838	20 X 1/2"	Each	96.80
1839	20 X 3/4"	Each	343.20
1843	25 X 1/2"	Each	106.70
1844	25 X 3/4"	Each	121.00
1845	32 X 1/2"	Each	137.50
1846	32 X 3/4"	Each	159.50
1847	32 X 1"	Each	217.80
1848	40 X 1-1/4"	Each	728.20
1849	50 X 1-1/2"	Each	1108.80
1850	63 X 2"	Each	1967.90
	Crossover		0.00
1851	20 mm	Each	77.00
1852	25 mm	Each	39.60
1853	32 mm	Each	69.30
1854	40 mm	Each	187.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
	Male Tee		0.00
1855	20 X 1/2"	Each	173.80
1856	20 X 3/4"	Each	394.90
1857	25 X 1/2"	Each	111.10
1858	25 X 3/4"	Each	137.50
1859	32 X 1/2"	Each	308.00
1860	32 X 3/4"	Each	159.50
1861	32 X 1"	Each	216.70
1862	40 X 1-1/4"	Each	694.10
1863	50 X 1-1/2"	Each	991.10
1864	63 X 2"	Each	1171.50
	Female Tee		0.00
1865	20 X 1/2"	Each	173.80
1866	20 X 3/4"	Each	237.60
1867	25 X 1/2"	Each	73.70
1868	25 X 3/4"	Each	94.60
1869	32 X 1/2"	Each	280.50
1870	32 X 3/4"	Each	126.50
1871	32 X 1"	Each	172.70
1872	40 X 1-1/4"	Each	630.30
1873	50 X 1-1/2"	Each	776.60
1874	63 X 2"	Each	1421.20
	Union Female		0.00
1875	20-1/2"	Each	322.30
1876	25-1/2"	Each	464.20
1877	25-3/4"	Each	506.00
1878	32-1/2"	Each	530.20
1879	32-3/4"	Each	557.70
1880	32-1"	Each	744.70
1881	50-1-1/2"	Each	1837.00
1882	63-2"	Each	2515.70
	Union Male		0.00
1883	20-1/2"	Each	249.70
1884	25-1/2"	Each	484.00
1890	25-3/4"	Each	414.70
1891	32-1/2"	Each	581.90
1892	32-3/4"	Each	596.20
1893	32-1"	Each	601.70
1894	40-1-1/4"	Each	1313.40
1895	50-1-1/2"	Each	2051.50

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1896	60-2"	Each	2696.10
	Union		0.00
1897	20mm	Each	312.40
1898	25mm	Each	277.20
1899	32mm	Each	446.60
1900	40mm	Each	1108.80
1901	50mm	Each	1524.60
1902	63mm	Each	2864.40
	Cross Tee		0.00
1903	20mm	Each	104.50
1904	25mm	Each	83.60
1905	32mm	Each	96.80
1906	40 mm	Each	281.60
	Throttlet Valve		0.00
1907	20mm	Each	520.30
1908	25mm	Each	544.50
1909	32mm	Each	880.00
1910	40mm	Each	1663.20
1911	50mm	Each	1767.70
1912	63mm	Each	3118.50
	Threaded Plug		0.00
1913	20mm	Each	17.60
1914	25mm	Each	27.50
1915	32mm	Each	30.80
1916	40mm	Each	45.10
	Pipe Clamp		0.00
1917	20mm	Each	22.00
1918	25mm	Each	8.80
1919	32mm	Each	11.00
1920	40mm	Each	55.00
1921	50mm	Each	75.90
1922	63mm	Each	105.60
	Female Socket		0.00
1923	20 X 1/2"	Each	136.40
1924	20 X 3/4"	Each	237.60
1925	25 X 1/2"	Each	60.50
1926	25 X 3/4"	Each	80.30
1927	32 X 1/2"	Each	108.90
1928	32 X 3/4"	Each	118.80
1929	32 X 1"	Each	152.90

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1930	40 X 1-1/4"	Each	284.90
1931	50 X 1-1/2"	Each	907.50
1932	63 X 2"	Each	1386.00
1933	75 X 1-1/2"	Each	4934.60
1934	75 X 2-1/2"	Each	5720.00
1935	90 X 3"	Each	10430.20
	Male Socket		0.00
1936	20 X 1/2"	Each	132.00
1937	20 X 3/4"	Each	228.80
1938	25 X 1/2"	Each	92.40
1939	25 X 3/4"	Each	116.60
1940	32 X 1/2"	Each	136.40
1941	32 X 3/4"	Each	150.70
1942	32 X 1"	Each	194.70
1943	40 X 1-1/4"	Each	762.30
1944	50 X 1-1/2"	Each	900.90
1945	63 X 2"	Each	1455.30
1946	75 X 1-1/2"	Each	2362.80
1947	90 X 3"	Each	5387.80
1948	Master tiles 24" X 24"		0.00
1949	MCS Series Light Rectified SB	Sq.m	1309.00
1950	MCS Series Light Rectified ST	Sq.m	1186.90
1951	MCS Series Dark Rectified SB	Sq.m	1419.00
1952	MCS Series Dark Rectified ST	Sq.m	1294.70
1953	Salt'Pepper (SPM) Dark Polished SB	Sq.m	1511.40
1954	Salt'Pepper (SPM) Dark Polished ST	Sq.m	1388.20
1955	Salt'Pepper (SPM-110) Light Polished SB	Sq.m	1494.90
1956	Salt'Pepper (SPM-110) Light Polished ST	Sq.m	1370.60
1957	Granite Effect (GEM) Dark Polished SB	Sq.m	1691.80
1958	Granite Effect (GEM) Dark Polished ST	Sq.m	1568.60
1959	Granite with dry/wet/venied application,DWV series Polished (Light color)class SB	Sq.m	1595.00
1960	Granite with dry/wet/venied application,DWV series Polished (Light color)class ST	Sq.m	1471.80
1961	Granite with dry/wet/venied application,DWV series Polished (Dark color)class SB	Sq.m	1691.80
1962	Granite with dry/wet/venied application,DWV series Polished (Dark color)class ST	Sq.m	1568.60
1963	Coral Master (CLM) Dark Polished SB	Sq.m	1801.80
1964	Coral Master (CLM) Dark Polished ST	Sq.m	1678.60
1965	IMPG Imperial Dark Polished SB	Sq.m	1783.10
1966	IMPG Imperial Dark Polished ST	Sq.m	1635.70
1967	GPM Glazed Polished Light SB	Sq.m	1324.40
1968	GPM Glazed Polished Light ST	Sq.m	1205.60

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
1969	GPM Glazed Polished Dark SB	Sq.m	1437.70
1970	GPM Glazed Polished Dark ST	Sq.m	1318.90
1971	GPD Series Light Polished SB	Sq.m	1324.40
1972	GPD Series Light Polished ST	Sq.m	1205.60
1973	GPD Series Dark Polished SB	Sq.m	1437.70
1974	GPD Series Dark Polished ST	Sq.m	1318.90
1975	MCD Glazed Rectified Light SB	Sq.m	1324.40
1976	MCD Glazed Rectified Light ST	Sq.m	1205.60
1977	MCD Glazed Rectified Dark SB	Sq.m	1437.70
1978	MCD Glazed Rectified Dark ST	Sq.m	1318.90
1979	Master Tiles 8"x8"		0.00
1980	SP Series on matching Light Color base (Glossy / Matt) SB	Sq.m	771.10
1981	SP Series on matching Light Color base (Glossy / Matt) SS	Sq.m	745.80
1982	SP Series on matching Light Color base (Glossy / Matt) ST	Sq.m	718.30
1983	SP Series on matching Dark Color base (Glossy / Matt) SB	Sq.m	811.80
1984	SP Series on matching Dark Color base (Glossy / Matt) SS	Sq.m	785.40
1985	SP Series on matching Dark Color base (Glossy / Matt) ST	Sq.m	756.80
1986	Solo executive on light color base Plain/Texture (Glossy/Matt)SE MATT series class SB	Sq.m	771.10
1987	Solo executive on light color base Plain/Texture (Glossy/Matt)SE MATT series class SS	Sq.m	745.80
1988	Solo executive on light color base Plain/Texture (Glossy/Matt)SE MATT series class ST	Sq.m	718.30
1989	Solo executive on Dark color base Plain/Texture (Glossy/Matt)SE MATT series class SB	Sq.m	811.80
1990	Solo executive on Dark color base Plain/Texture (Glossy/Matt)SE MATT series class SS	Sq.m	785.40
1991	Solo executive on Dark color base Plain/Texture (Glossy/Matt)SE MATT series class ST	Sq.m	756.80
1992	Master Tiles 8"x10"		0.00
1993	Solo executive on light color base. Plain/Texture (Glossy/Matt) SE series class SB	Sq.m	790.90
1994	Solo executive on light color base. Plain/Texture (Glossy/Matt) SE series class SS	Sq.m	765.60
1995	Solo executive on light color base. Plain/Texture (Glossy/Matt) SE series class ST	Sq.m	737.00
1996	Solo executive on Dark color base. Plain/Texture (Glossy/Matt) SE series class SB	Sq.m	829.40
1997	Solo executive on Dark color base. Plain/Texture (Glossy/Matt) SE series class SS	Sq.m	804.10
1998	Solo executive on Dark color base. Plain/Texture (Glossy/Matt) SE series class ST	Sq.m	773.30
1999	Master Tiles 12"x24"		0.00
2000	MCT Series Light Colors Glazed (SB)	Sq.m	1094.50
2001	MCT Series Light Colors Glazed (ST)	Sq.m	1017.50
2002	MCT Series Dark Colors Glazed (SB)	Sq.m	1158.30
2003	MCT Series Dark Colors Glazed (ST)	Sq.m	1089.00
2004	SFD Series Light Colors Rectified (SB)	Sq.m	1098.90

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2005	SFD Series Light Colors Rectified (ST)	Sq.m	1017.50
2006	SFD Series Dark Colors Rectified (SB)	Sq.m	1164.90
2007	SFD Series Dark Colors Rectified (ST)	Sq.m	1079.10
2008	SED Series Light_Non-rectified SB	Sq.m	1098.90
2009	SED Series Light_Non-rectified ST	Sq.m	1017.50
2010	SED Series Dark_Non-rectified SB	Sq.m	1164.90
2011	SED Series Dark_Non-rectified ST	Sq.m	1079.10
2012	MPD Series Light Colors Glazed (SB)	Sq.m	1098.90
2013	MPD Series Light Colors Glazed (ST)	Sq.m	1017.50
2014	MPD Series Dark Colors Glazed (SB)	Sq.m	1164.90
2015	MPD Series Dark Colors Glazed (ST)	Sq.m	1079.10
2016	NATIONAL CERAMIC TILES		0.00
2017	Code 6,7,8,9,102,515,317,318		0.00
2018	Floor Tiles 132mm x 268mm x 10mm (All Colors)	Sq.m	814.00
2019	Facing Strips 66mm x 268mm x 10mm (All Colors)	Sq.m	814.00
2020	Step Tiles 190mm x 268mm x 10mm (All Colors)	Sq.m	229.90
2021	Angel 52 x 115 x 268 x 10mm	Sq.m	229.90
2022	Code 811,101,312		0.00
2023	Floor Tiles 132mm x 268mm x 10mm	Sq.m	880.00
2024	Facing Strips 66mm x 268mm x 10mm	Sq.m	880.00
2025	Step Tiles 190mm x 268mm x 10mm	Sq.m	259.60
2026	Angel 52 x 115 x 268 x 10mm	Sq.m	259.60
2027	Code 511,413, 422		0.00
2028	Floor Tiles 132mm x 268mm x 10mm	Sq.m	1133.00
2029	Facing Strips 66mm x 268mm x 10mm	Sq.m	1133.00
2030	Step Tiles 190mm x 268mm x 10mm	Sq.m	299.20
2031	Angel 52 x 115 x 268 x 10mm	Sq.m	299.20
2032	Code 101, 312	Sq.m	0.00
2033	Chequered Tile 115 x 268 x 10mm	Sq.m	880.00
2034	STILE TILES (Shabbir Tiles)	Sq.m	0.00
2035	CERAMIC WALL TILES (PREMIUM) Size 6x6	Sq.m	0.00
2036	Plain White	Sq.m	740.30
2037	Plain Brown/Green	Sq.m	851.40
2038	Plain Mid Night Blue	Sq.m	977.90
2039	Plain Red	Sq.m	1210.00
2040	CERAMIC WALL TILES (PREMIUM) Size 8x8		0.00
2041	Plain Light Color	Sq.m	715.00
2042	Plain Dark Color	Sq.m	751.30
2043	Plain N.Blue / Burgundry	Sq.m	818.40
2044	Plain Red Yellow	Sq.m	962.50

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2045	Texture Light	Sq.m	697.40
2046	Texture Dark	Sq.m	726.00
2047	Texture Burgundry	Sq.m	834.90
2048	Hala Design	Sq.m	697.40
2049	Die Punch Light	Sq.m	737.00
2050	Die Punch Dark	Sq.m	765.60
2051	Die Punch Burgundry	Sq.m	874.50
2052	CERAMIC WALL TILES (PREMIUM) Size 8x10		0.00
2053	Plain Light Color	Sq.m	709.50
2054	Plain Dark Color	Sq.m	738.10
2055	Plain N.Blue / Burgundry / Exotic Brown	Sq.m	859.10
2056	Plain Red Yellow	Sq.m	971.30
2057	Texture Light	Sq.m	693.00
2058	Texture Dark	Sq.m	721.60
2059	Texture Burgundry	Sq.m	829.40
2060	Luster Light	Sq.m	733.70
2061	Luster Dark	Sq.m	761.20
2062	Luster Burgundry	Sq.m	871.20
2063	Hala Design	Sq.m	693.00
2064	Die Punch Light	Sq.m	733.70
2065	Die Punch Dark	Sq.m	761.20
2066	Die Punch Burgundry	Sq.m	871.20
2067	CERAMIC WALL TILES (PREMIUM) Size 8x12		0.00
2068	Plain Light Color	Sq.m	741.40
2069	Plain Dark Color	Sq.m	771.10
2070	Plain N.Blue / Burgundry / Exotic Brown	Sq.m	870.10
2071	Plain Red Yellow	Sq.m	988.90
2072	Texture Light	Sq.m	711.70
2073	Texture Dark	Sq.m	740.30
2074	Texture Burgundry	Sq.m	828.30
2075	Luster Light	Sq.m	752.40
2076	Luster Dark	Sq.m	783.20
2077	Luster Burgundry	Sq.m	870.10
2078	Hala Design	Sq.m	711.70
2079	Die Punch Light	Sq.m	752.40
2080	Die Punch Dark	Sq.m	783.20
2081	Die Punch Burgundry	Sq.m	870.10
2082	CERAMIC WALL TILES (PREMIUM) Size 10x13		0.00
2083	Plain Light Color	Sq.m	771.10
2084	Plain Dark Color	Sq.m	800.80

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2085	Plain N.Blue / Burgundy / Exotic Brown	Sq.m	888.80
2086	Plain Red Yellow	Sq.m	1005.40
2087	Texture Light	Sq.m	778.80
2088	Texture Dark	Sq.m	778.80
2089	Texture Burgundy	Sq.m	871.20
2090	Reactive Light	Sq.m	778.80
2091	Reactive Dark	Sq.m	778.80
2092	Luster Light	Sq.m	793.10
2093	Luster Dark	Sq.m	822.80
2094	Luster Burgundy	Sq.m	913.00
2095	Die Punch Light	Sq.m	793.10
2096	Die Punch Dark	Sq.m	822.80
2097	Die Punch Burgundy	Sq.m	913.00
2098	CERAMIC WALL TILES (PREMIUM) Size 12x24		0.00
2099	Texture Normal Gloss (Light)	Sq.m	788.70
2100	Texture Normal Gloss (Dark)	Sq.m	1006.50
2101	Die Punch (All)	Sq.m	1016.40
2102	CERAMIC WALL TILES (PREMIUM) Size 12x18		0.00
2103	Texture Normal Gloss (Light)	Sq.m	834.90
2104	Texture Normal Gloss (Dark)	Sq.m	870.10
2105	Die Punch (All)	Sq.m	909.70
2106	Plain N.Blue/Burgundy	Sq.m	953.70
2107	Plain Red/Yellow	Sq.m	1065.90
2108	Texture Light	Sq.m	796.40
2109	Texture Dark	Sq.m	831.60
2110	Texture Burgundy	Sq.m	937.20
2111	Luster Light	Sq.m	836.00
2112	Luster Dark	Sq.m	870.10
2113	Luster Burgundy	Sq.m	975.70
2114	Die Punch Light	Sq.m	836.00
2115	Die Punch Dark	Sq.m	870.10
2116	Die Punch Burgundy	Sq.m	975.70
2117	CERAMIC FLOOR TILES (PREMIUM) Size 12x12 (CFT MATT)		0.00
2118	Plain Light Color	Sq.m	728.20
2119	Plain Dark Color	Sq.m	762.30
2120	Texture Light	Sq.m	728.20
2121	Texture Dark	Sq.m	762.30
2122	CERAMIC FLOOR TILES (PREMIUM) Size 12x12 (CFT GLOSSY)		0.00
2123	Plain Light Color	Sq.m	755.70

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2124	Plain Dark Color	Sq.m	789.80
2125	Texture Light	Sq.m	755.70
2126	Texture Dark	Sq.m	789.80
2127	PORCELAIN FLOOR TILES (PFT) NANO POLISHED Size 16x16 (PREMIUM)		0.00
2128	Plain Light Color SSP	Sq.m	1128.60
2129	Plain Coffe Brown SSP	Sq.m	1543.30
2130	Salt & Pepper light SNP	Sq.m	1116.50
2131	Vein Effect SVE	Sq.m	1188.00
2132	PORCELAIN FLOOR TILES (PFT) NANO POLISHED Size 20x20 (PREMIUM)		
2133	Plain Light Color SSP	Sq.m	1162.70
2134	Plain Coffe Brown SSP	Sq.m	1577.40
2135	Salt & Pepper light SNP	Sq.m	1167.10
2136	Salt & Pepper Dark Grey 52301 SNP	Sq.m	1554.30
2137	Salt & Pepper Green 50902 SNP	Sq.m	1554.30
2138	Vein Effect SVE	Sq.m	1217.70
2139	MASTER TILES		
2140	Master Tiles 12" X12"		
2141	Salt'n paper (SPC) with Crystal & Metallic Printing Effect (Rectified)(Light color) SB	Sq.m	770.00
2142	Salt'n paper (SPC) with Crystal & Metallic Printing Effect (Rectified)(Light color) ST	Sq.m	701.00
2143	Salt'n paper (SPC) with Crystal & Metallic Printing Effect (Rectified)(Dark color) SB	Sq.m	824.00
2144	Salt'n paper (SPC) with Crystal & Metallic Printing Effect (Rectified)(Dark color) ST	Sq.m	757.00
2145	LPF Series Light Color (Rectified)SB	Sq.m	770.00
2146	LPF Series Light Color (Rectified)ST	Sq.m	701.00
2147	LPF Series Dark Color (Rectified)SB	Sq.m	824.00
2148	LPF Series Dark Color (Rectified)ST	Sq.m	757.00
2149	LPFS Series Light Color (Rectified)SB	Sq.m	969.00
2150	LPFS Series Light Color (Rectified)ST	Sq.m	902.00
2151	LPFS Series Dark Color (Rectified)SB	Sq.m	969.00
2152	LPFS Series Dark Color (Rectified)ST	Sq.m	902.00
2153	Stone effect in Plain Colors,SEM series (Rectified)(Light color)class SB	Sq.m	837.00
2154	Stone effect in Plain Colors,SEM series (Rectified)(Light color)class ST	Sq.m	759.00
2155	Stone effect in Plain Colors,SEM series (Rectified)(Dark color)class SB	Sq.m	911.00
2156	Stone effect in Plain Colors,SEM series (Rectified)(Dark color)class ST	Sq.m	832.00
2157	Stone effect in Salt'n Pepper,SSP series (Rectified)(Light color)class SB	Sq.m	837.00
2158	Stone effect in Salt'n Pepper,SSP series (Rectified)(Light color)class ST	Sq.m	759.00
2159	Stone effect in Salt'n Pepper,SSP series (Rectified)(Dark color)class SB	Sq.m	911.00
2160	Stone effect in Salt'n Pepper,SSP series (Rectified)(Dark color)class ST	Sq.m	832.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2161	Stone effect in Granite,SEG series (Rectified)(Light color)class SB	Sq.m	900.00
2162	Stone effect in Granite,SEG series (Rectified)(Light color)class ST	Sq.m	820.00
2163	Stone effect in Granite,SEG series (Rectified)(Dark color)class SB	Sq.m	900.00
2164	Stone effect in Granite,SEG series (Rectified)(Dark color)class ST	Sq.m	820.00
2165	LPD Series Light Rectified SB	Sq.m	770.00
2166	LPD Series Light Rectified ST	Sq.m	701.00
2167	LPD Series Dark Rectified SB	Sq.m	824.00
2168	LPD Series Dark Rectified ST	Sq.m	757.00
2169	SED Stone Effect Digital Light Rectified SB	Sq.m	770.00
2170	SED Stone Effect Digital Light Rectified ST	Sq.m	701.00
2171	SED Stone Effect Digital Dark Rectified SB	Sq.m	824.00
2172	SED Stone Effect Digital Dark Rectified ST	Sq.m	757.00
2173	Master tiles 16" X 16"	Sq.m	
2174	BCS Series (Light - Rectified) SB	Sq.m	844.00
2175	BCS Series (Light - Rectified) ST	Sq.m	784.00
2176	BCS Series (Dark - Rectified) SB	Sq.m	900.00
2177	BCS Series (Dark - Rectified) ST	Sq.m	838.00
2178	BCD Series (Light - Rectified) SB	Sq.m	844.00
2179	BCD Series (Light - Rectified) ST	Sq.m	784.00
2180	BCD Series (Dark - Rectified) SB	Sq.m	900.00
2181	BCD Series (Dark - Rectified) ST	Sq.m	838.00
2182	Salt'n Pepper SPM Dark Polished SB	Sq.m	1178.00
2183	Salt'n Pepper SPM Dark Polished ST	Sq.m	1077.00
2184	Salt'n Pepper (SPM 110) Light Polished SB	Sq.m	1023.00
2185	Salt'n Pepper (SPM 110) Light Polished ST	Sq.m	930.00
2186	Granite effect, GEM series Polished (Dark color) SB	Sq.m	1158.00
2187	Granite effect, GEM series Polished (Dark color) ST	Sq.m	1065.00
2188	Granite with dry/wet/venied application,DWV series Polished (Light color)class SB	Sq.m	1114.00
2189	Granite with dry/wet/venied application,DWV series Polished (Light color)class ST	Sq.m	1020.00
2190	Granite with dry/wet/venied application,DWV series Polished (Dark color)class SB	Sq.m	1201.00
2191	Granite with dry/wet/venied application,DWV series Polished (Dark color)class ST	Sq.m	1102.00
2192	Coral Master (CLM) Dark Polished SB	Sq.m	1213.00
2193	Coral Master (CLM) Dark Polished ST	Sq.m	1120.00
2194	Imperial (IMPG) Dark Color Polished SB	Sq.m	1267.00
2195	Imperial (IMPG) Dark Color Polished ST	Sq.m	1150.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2196	Master tiles 12" X 18"	Sq.m	
2197	SP Series on matching color base (Glossy / Matt) Light Color Rectified SB	Sq.m	855.00
2198	SP Series on matching color base (Glossy / Matt) Light Color Rectified SS	Sq.m	818.00
2199	SP Series on matching color base (Glossy / Matt) Light Color Rectified ST	Sq.m	780.00
2200	SP Series on matching color base (Glossy) Dark Color Rectified SB	Sq.m	915.00
2201	SP Series on matching color base (Glossy) Dark Color Rectified SS	Sq.m	874.00
2202	SP Series on matching color base (Glossy) DarkColor Rectified ST	Sq.m	837.00
2203	GSP Series - Plain matching Light Colors (Glossy / Matt) GSP - SB	Sq.m	901.00
2204	GSP Series - Plain matching Light Colors (Glossy / Matt) GSP - SS	Sq.m	863.00
2205	GSP Series - Plain matching Light Colors (Glossy / Matt) GSP - ST	Sq.m	823.00
2206	GSP Series - Plain matching Dark Colors (Glossy / Matt) GSP - SB	Sq.m	964.00
2207	GSP Series - Plain matching Dark Colors (Glossy / Matt) GSP - SS	Sq.m	924.00
2208	GSP Series - Plain matching Dark Colors (Glossy / Matt) GSP - ST	Sq.m	885.00
2209	SP Series - Plain matching Light Colors (Glossy / Matt) SP PLN - SB	Sq.m	928.00
2210	SP Series - Plain matching Light Colors (Glossy / Matt) SP PLN - SS	Sq.m	889.00
2211	SP Series - Plain matching Light Colors (Glossy / Matt) SP PLN - ST	Sq.m	849.00
2212	SP Series - Plain matching Dark Colors (Glossy / Matt) SP PLN - SB	Sq.m	986.00
2213	SP Series - Plain matching Dark Colors (Glossy / Matt) SP PLN - SS	Sq.m	948.00
2214	SP Series - Plain matching Dark Colors (Glossy / Matt) SP PLN - ST	Sq.m	908.00
2215	DFD Series Light SB	Sq.m	892.00
2216	DFD Series Light SS	Sq.m	855.00
2217	DFD Series Light ST	Sq.m	818.00
2218	DFD Series Dark SB	Sq.m	952.00
2219	DFD Series Dark SS	Sq.m	915.00
2220	DFD Series Dark ST	Sq.m	877.00
	Pre-cast / Pre-Cast Slabs (As per approved manufacturer) at site		
2221	2'-6"x1'-6"	Each	148.50
2222	3'x1'-6"	Each	190.30
2223	3'x2'	Each	259.60
2224	3'-6"x1'-6"	Each	226.60
2225	3'-6"x2'	Each	305.80
2226	4'x1'-6"	Each	276.10
2227	4'-6"x1'-6"	Each	325.60

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2228	5'x1'-6"	Each	396.00
2229	5'-6"x1'-6"	Each	429.00
2230	6'x1'-6"	Each	614.90
2231	6'-6"x1'-6"	Each	660.00
2232	7'x1'-6"	Each	784.30
2233	3'x1'	Each	148.50
2234	3'-6"x1'	Each	165.00
2235	4'x1'	Each	193.60
2236	4'-6"x1'	Each	231.00
2237	5'x1'	Each	292.60
2238	5'-6"x1'	Each	334.40
2239	6'x1'	Each	412.50
2240	6'-6"x1'	Each	445.50
	Precast Boundary Wall Columns / Beams (As per approved manufacturer) at site		
2241	Column 6" x 6-1/2"	P.Rft	144.10
2242	Column 8" x 9"	P.Rft	272.80
2243	Column 4" x 9"	P.Rft	94.60
2244	Plinth Beam	P.Rft	99.00
2245	Planks 2 x12 x 8	P.Rft	99.00
2246	Planks 2 x 8 x 8	P.Rft	70.40
2247	Color Stip 2 x 3 x 8	P.Rft	61.60
2248	Boundary wall cap (each)	P.Rft	94.60
	U-PVC Pipe class B		
2249	U-PVC 75 mm dia	RM	314
2250	U-PVC 100 mm dia	RM	478
2251	U-PVC 125 mm dia	RM	669
2252	U-PVC 150 mm dia	RM	937
2253	U-PVC 200 mm dia	RM	1,430
2254	U-PVC 250 mm dia	RM	2,310
2255	U-PVC 300 mm dia	RM	3,207
2256	U-PVC 350 mm dia	RM	4,068
2257	U-PVC 400 mm dia	RM	5,459
2258	U-PVC 450 mm dia	RM	8,556
2259	U-PVC 500 mm dia	RM	10,761
2260	U-PVC 550 mm dia	RM	13,648
2261	U-PVC 600 mm dia	RM	16,798
	U-PVC Pipe class C		
2262	U-PVC 75 mm dia	RM	378
2263	U-PVC 100 mm dia	RM	617

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2264	U-PVC 125 mm dia	RM	934
2265	U-PVC 150 mm dia	RM	1,351
2266	U-PVC 200 mm dia	RM	2,068
2267	U-PVC 250 mm dia	RM	3,359
2268	U-PVC 300 mm dia	RM	4,724
2269	U-PVC 350 mm dia	RM	5,682
2270	U-PVC 400 mm dia	RM	7,874
2271	U-PVC 450 mm dia	RM	13,386
2272	U-PVC 500 mm dia	RM	16,666
2273	U-PVC 550 mm dia	RM	20,149
2274	U-PVC 600 mm dia	RM	23,966
	U-PVC class D		
2275	U-PVC 50 mm dia	RM	220
2276	U-PVC 75 mm dia	RM	328
2277	U-PVC 100 mm dia	RM	488
2278	U-PVC 125 mm dia	RM	814
2279	U-PVC 150 mm dia	RM	1,210
2280	U-PVC 200 mm dia	RM	1,748
2281	U-PVC 250 mm dia	RM	2,690
2282	U-PVC 300 mm dia	RM	4,331
2283	U-PVC 350 mm dia	RM	6,562
2284	U-PVC 400 mm dia	RM	7,839
2285	U-PVC 450 mm dia	RM	11,286
2286	U-PVC 500 mm dia	RM	18,110
2287	U-PVC 550 mm dia	RM	26,000
2288	U-PVC 600 mm dia	RM	38,848
	U-PVC class E		
2289	U-PVC 50 mm dia	RM	394
2290	U-PVC 75 mm dia	RM	604
2291	U-PVC 100 mm dia	RM	984
2292	U-PVC 125 mm dia	RM	1,509
2293	U-PVC 150 mm dia	RM	2,121
2294	U-PVC 200 mm dia	RM	3,234
2295	U-PVC 250 mm dia	RM	5,722
2296	U-PVC 300 mm dia	RM	8,005
2297	U-PVC 350 mm dia	RM	10,496
2298	U-PVC 400 mm dia	RM	15,222
2299	U-PVC 450 mm dia	RM	23,160
2300	U-PVC 500 mm dia	RM	31,160
2301	U-PVC 550 mm dia	RM	41,600

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2302	U-PVC 600 mm dia	RM	52,000
	Antimicrobial PN-20 Polydex Pipe		
2303	20 mm	RM	136
2304	25 mm	RM	211
2305	32 mm	RM	344
2306	40 mm	RM	527
2307	50 mm	RM	833
2308	63 mm	RM	1,310
2309	75 mm	RM	1,854
2310	90 mm	RM	2,663
2311	110 mm	RM	3,973
2312	Donkey Pump, 2,900 RPM,0.5 HP	Nos.	7,336
2313	Donkey Pump, 2,900 RPM,1HP	Nos.	15,500
2314	Donkey Pump , 2HP	Nos.	20,000
2315	Polocarbonate Sheets 8 mm	Sq.m	1,614
2316	Decorative Wood Composite Panels 5" Wide, 1" Thick	RM	500
2317	Decorative Wood Composite Panels 4" Wide, 0.5" Thick	RM	250
2318	Polyvinyl Chloride Wall Panelling	Sq.m	592
2319	Handpump	Nos.	7,500
2320	Hasco Bag	Nos.	500
2321	ZKT F7 Biometric Attendance Machine	Nos.	13,000
2322	Traffic Signal Head European	Nos.	45,000
2323	Traffic Signal Head Controller European	Nos.	75,000
2324	Traffic Signal Head Chinese	Nos.	35,000
2325	Traffic Signal Head Controller Chinese	Nos.	55,000
	Philips Lights and Fixtures		
2326	LEDBulb 3 w	Nos.	180.00
2327	LEDBulb4w	Nos.	190.00
2328	LED Bulb 6w	Nos.	220.00
2329	LED Bulb 7w	Nos.	230.00
2330	LEDBulb 9w	Nos.	250.00
2331	LED 9.5w 2in 1 colour	Nos.	380.00
2332	LEDBulb 10.5w	Nos.	300.00
2333	LEDBulb 13w	Nos.	350.00
2334	LED BULB 16W	Nos.	750.00
2335	LED Bulb 18w	Nos.	820.00
2336	LED Bulb 19w	Nos.	1150.00
2337	LED Bulb 23w	Nos.	1400.00
2338	LED 3.5w Down Light 2.5"	Nos.	350.00
2339	LED 5w Down Light 3"	Nos.	400.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2340	LED 7w Down Light 3.5"	Nos.	480.00
2341	LED 9w Down Light 4"	Nos.	520.00
2342	GLOBE 11.5W	Nos.	720.00
2343	LED 5w SPOT Down Light 2.5"	Nos.	560.00
2344	LED 3w SPOT Down Light 2.5"	Nos.	500.00
2345	CANDLE 4.25W E14	Nos.	280.00
2346	9wLEDTMS	Nos.	600.00
2347	18WLEDTMS	Nos.	1000.00
2348	16W LED TUBE ROD	Nos.	525.00
2349	8W LED TUBE ROD	Nos.	435.00
2350	BSN 150L 3021	Nos.	1774.94
2351	SON-T 150W E E40 SLI12	Nos.	518.31
2352	BHL 125L 202	Nos.	1116.02
2353	BSN 250L 3021	Nos.	2451.10
2354	HPL-N 125W/542 E27 SG 1CT/24	Nos.	216.45
2355	SON-T 250W E E40 SLI12	Nos.	655.20
2356	SN 58	Nos.	269.43
2357	AMBIANCE GL 18W CDL E27 220-240V 1CT/6	Nos.	260.00
2358	AMBIANCE GL 18W WW E27 220-240V 1CC/6	Nos.	260.00
2359	AVENUE (BSN 150W)	Nos.	8186.82
2360	AVENUE (EMPTY)	Nos.	6561.36
2361	AVENUE 250W	Nos.	9220.10
2362	AVENUE 70W BSN	Nos.	5499.00
2363	AVENUE WITH (250W BHL LAMP)	Nos.	7488.00
2364	BBP500 LED11 O/CW PSU S-MB 120-277V FE	Nos.	32999.85
2365	BGP150 LED20001WW PSU 220-240V 7043	Nos.	56550.00
2366	BHD 2000 L76 380/400/415V 50Hz HP-317	Nos.	24336.00
2367	BHL 250L 202	Nos.	1814.61
2368	BHL 400L 202	Nos.	2457.00
2369	BHLA 125L 200	Nos.	821.34
2370	BHLE 250L 202	Nos.	1029.78
2371	BHLE 400L 202	Nos.	1452.38
2372	BN006C LED30 CW L 1200	Nos.	3350.00
2373	BN096C LED161WW L 1200	Nos.	810.23
2374	BRP210 LED28/CW 22W 220-240V DW3 MP1	Nos.	10300.00
2375	BRP210 LED34/CW 27W 220-240V DW3 MP1	Nos.	9600.00
2376	BRP330 LED37/NW 37W 220-240V DM MP1	Nos.	24008.40
2377	BRP330 LED59/CW 55W 220-240V DM MP1	Nos.	19999.98
2378	BRP371 LED53/NW 55W 220-240V DM2E	Nos.	35100.00
2379	BRP372 LED121/CW 120W 220-240V DM2E	Nos.	47593.26

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2380	BRP372 LED122/CW 120W 220-240V DME	Nos.	42500.25
2381	BSN 1000L 3021	Nos.	8985.53
2382	BSN 100L 3021	Nos.	1128.09
2383	BSN 400L 3021	Nos.	3934.53
2384	BSN 70L 3021	Nos.	1019.07
2385	BSNE 150L 3041 TS	Nos.	1122.03
2386	BSNE 250L 3001 TS	Nos.	1509.30
2387	BSNE 400L 3001 TS	Nos.	2252.25
2388	BSNE 70L 3041 TS	Nos.	765.18
2389	BTA 18W 230V C DI	Nos.	372.91
2390	BTA 36/40W ALU TRADE (LE)	Nos.	195.00
2391	BTA 36/40W ALU TRADE (LE)	Nos.	195.00
2392	BT A 36W 230V C DI	Nos.	379.72
2393	BT -ALU 18W 220V C SC	Nos.	274.15
2394	BVP100 LED20/CW 20W 220-240V 50/60Hz BK	Nos.	5446.35
2395	BVP100 LED20/CW 20W 220-240V 50/60Hz GR	Nos.	1474.79
2396	BVP100 LED20/NW 20W 220-240V 50/60Hz BK	Nos.	5446.35
2397	BVP100 LED30/CW 30W 220-240V 50/60Hz BK	Nos.	7798.05
2398	BVP100 LED30/NW 30W 220-240V 50/60Hz BK	Nos.	7798.05
2399	BVP100 LED50/CW 50W 220-240V 50/60Hz BK	Nos.	12495.60
2400	BVP100 LED50/NW 50W 220-240V 50/60Hz BK	Nos.	12495.60
2401	BVP100 LED75/CW 75W 220-240V 50/60Hz BK	Nos.	14894.10
2402	BVP100 LED75/CW 75W 220-240V 50/60Hz GR	Nos.	4915.99
2403	BVP100 LED75/NW 75W 220-240V 50/60Hz BK	Nos.	14894.10
2404	BVP161 LED26/CW 30W 220-240V WB GREY	Nos.	2605.59
2405	BVP161 LED26/NW 30W 220-240V WB GREY	Nos.	2605.59
2406	BVP161 LED43/CW 50W 220-240V WB GREY	Nos.	4500.00
2407	BVP161 LED43/NW 50W 220-240V WB GREY	Nos.	4424.94
2408	BVP161 LED60/CW 70W 220-240V WB GREY	Nos.	5702.58
2409	BVP161 LED60/NW 70W 220-240V WB GREY	Nos.	5702.58
2410	BVP162 LED110/CW 110W 220-240V AWB	Nos.	16000.00
2411	BVP162 LED11 O/CW 11 OW 220-240V SWB	Nos.	15999.75
2412	BVP162 LED110/NW 110W 220-240V AWB	Nos.	15853.50
2413	BVP163 LED2001WW 220W 220-240V SWB GM	Nos.	26909.84
2414	BVP163 LED220/CW 220W 220-240V AWB	Nos.	23200.00
2415	BVP163 LED220/CW 220W 220-240V SWB	Nos.	22999.86
2416	BVP163 LED220/NW 220W 220-240V AWB	Nos.	23100.25
2417	BVP163 LED220/NW 220W 220-240V SWB	Nos.	23099.31
2418	BVP281 LED120/CW 120W 220-240V SWB	Nos.	39910.00
2419	BVP281 LED132/CW 120W 220-240V AMB	Nos.	25562.16

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2420	BVP281 LED132/CW 120W 220-240V SWB	Nos.	28500.03
2421	BY688P LED140/CW PSU S-WB	Nos.	36000.02
2422	CAPACITOR 100MFD	Nos.	1287.00
2423	CAPACITOR 20 MFD	Nos.	213.17
2424	CAPACITOR 25 MFD	Nos.	252.84
2425	CAPACITOR 35 MFD	Nos.	337.12
2426	CAPACITOR 4.5/5 MFD	Nos.	123.94
2427	CAPACITOR 9/10 MFD	Nos.	176.51
2428	CorePro LEDspotMV 2-20W GU10 830 500	Nos.	117.00
2429	DN024B LED12/CW 0150	Nos.	1278.15
2430	DN024B LED12/NW 0150	Nos.	1278.15
2431	DN024B LED121WW 0150	Nos.	1500.00
2432	DN024B LED9/CW 0125	Nos.	953.70
2433	DN024B LED9/NW 0125	Nos.	953.70
2434	DN024B LED91WW 0125	Nos.	1180.00
2435	DN030B 1 xDLED/840 WH ENG	Nos.	1205.10
2436	DN030B 1 xDLED/850 WH ENG	Nos.	1205.10
2437	DN031B 1xDLED/840 WH ENG	Nos.	1240.20
2438	DN031B 1xDLED/850 WH ENG	Nos.	1240.20
2439	DN032B 1xDLED/840 WH ENG	Nos.	1427.40
2440	DN032B 1xDLED/850 WH ENG	Nos.	1427.40
2441	DN033B 1xDLED/840 WH ENG	Nos.	1953.90
2442	DN033B 1xDLED/850 WH ENG	Nos.	1953.90
2443	DN034B 1xDLED/840 WH ENG	Nos.	2281.50
2444	DN034B 1 xDLED/850 WH ENG	Nos.	2281.50
2445	DN060B 1xDLED/830 WH ENG	Nos.	2000.00
2446	DN281B 1xDLED-4000 PSU ALU PR	Nos.	810.00
2447	DN282B 1xDLED-4000 PSU WH	Nos.	1010.00
2448	EB-C 114 TL5 220-240V 50/60Hz	Nos.	395.00
2449	EB-C 118 TL-D 220-240V 50/60Hz	Nos.	324.29
2450	EB-C 118 TL-D 220-240V EP	Nos.	239.85
2451	EB-C 128 TL5 220-240V 50/60Hz	Nos.	425.40
2452	EB-C 136 TL-D 220-240V 50/60Hz	Nos.	341.53
2453	EB-C 136 TL-D 220-240V EP	Nos.	239.85
2454	EB-C 214 TL5 220-240V 50/60Hz	Nos.	468.00
2455	EB-C 218 TL-D 220-240V 50/60Hz	Nos.	369.14
2456	EB-C 228 TL5 220-240V 50/60Hz	Nos.	580.53
2457	EB-C 236 TL-D 220-240V 50/60Hz	Nos.	482.98
2458	Ess MR16 50W GU5.312V 360 ON 1CT/10X5F	Nos.	32.00
2459	ESSENTIAL LEDtube 1200mm 16W865 T8AP I G	Nos.	731.25

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2460	ESSENTIAL LEDtube 1200mm 18W840 T8 AP I	Nos.	1638.00
2461	ESSENTIAL LEDtube 1200mm 18W865 T8 AP I	Nos.	1638.00
2462	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I	Nos.	1638.00
2463	ESSENTIAL LEDtube 1200mm18W865 AP CON	Nos.	351.00
2464	ESSENTIAL LEDtube 600mm 10W840 T8 AP I	Nos.	1170.00
2465	ESSENTIAL LEDtube 600mm 10W865 T8 AP I	Nos.	1170.00
2466	ESSENTIAL LEDtube 600mm 8W865 T8 AP I G	Nos.	632.97
2467	ESSENTIAL LEDtube 600mm 9W865 T8 AP I	Nos.	700.01
2468	ET-E 10W LED 220V-240V	Nos.	228.15
2469	ET-E 60	Nos.	292.59
2470	FBH 145/ 01X11/18 W CFL WITHPLAIN GLASS	Nos.	833.43
2471	FBH 145/ 02X11/14 W CFL WITHPLAIN GLASS	Nos.	853.22
2472	FBH-145/11-18W CFL W/O GLASS	Nos.	668.57
2473	FBH-145/11-18W CFL WITH FROSTDGLASS	Nos.	867.56
2474	FBH-145/2X-11/14W CFL W/OGLOSS	Nos.	689.27
2475	FBH-145/2X11/14W CFL WITH FROSTED GLASS	Nos.	885.41
2476	FCW0981XTornado 23W K 0	Nos.	2000.70
2477	GBS 240 M1 LUMN	Nos.	899.39
2478	GBS 240 M2	Nos.	915.30
2479	GBS 300/240 M1	Nos.	875.51
2480	GBS 300/420 M1	Nos.	846.86
2481	GBS 300E/240 M2	Nos.	923.27
2482	GBS 300E/420 M2	Nos.	907.35
2483	GBS 420 M1	Nos.	907.35
2484	GBS 420 M2	Nos.	963.06
2485	GEAR BOX 250 W BHL	Nos.	2411.15
2486	GEAR BOX BSN 150W IMPG.	Nos.	3295.77
2487	GEAR BOX MPF 932 (BHL 400W)	Nos.	2888.89
2488	GEAR BOX MPF 932 (BSN 400W)	Nos.	5646.88
2489	GEAR BOX MPF 932 BSN 250W IMP.	Nos.	4239.13
2490	GKD 015 236 WITH HOLE	Nos.	472.81
2491	GKD 015/136 WITH HOLE TRADE	Nos.	433.68
2492	GKD 015/136 W-OUT HOLE	Nos.	439.55
2493	GKD 015/236 W-OUT HOLE	Nos.	472.81
2494	GKD 215/128 - 228	Nos.	286.65
2495	GLASS FBH 145 FROASTED	Nos.	234.00
2496	GMP 118 PLAST IC COVER ONLY	Nos.	313.00
2497	GMP 136 END CAP	Nos.	21.06
2498	GMP 136 PLAST IC COVER ONLY	Nos.	511.35
2499	GMP 236 ATTAC HMENT	Nos.	245.70

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2500	GMP 236 END CAP	Nos.	40.95
2501	GMP 236 PLASTIC COVER ONLY	Nos.	840.18
2502	H/SVF 10	Nos.	5378.86
2503	HALOGEN DICHROIC.12V 50W 36DEG	Nos.	3317.69
2504	HDK 463 WITH BHL 250W	Nos.	3417.98
2505	HDK 580 - REFLECTOR	Nos.	1164.95
2506	HDK 580 - WITH 400W BHL WITH IGNITOR	Nos.	3485.96
2507	HDK 580 150W BSN IMPG.	Nos.	3715.55
2508	HDK 580 WITH 400W GEAR	Nos.	3243.57
2509	HDK 580 WITH BHL 250W	Nos.	3004.06
2510	HF-S 236 TL-D II 220-240V 50/60Hz	Nos.	800.36
2511	HPI PLUS 400W/645 BUS E40 1SLI6	Nos.	1694.49
2512	HPI-T 1000W/543 E40 1SLI4	Nos.	7614.36
2513	HPL-N 250W E40 HG SLV/12	Nos.	340.91
2514	HPL-N 400W/542 E40 HG 1SLI6	Nos.	497.25
2515	HPL-N 80W/542 E27 SG 1CT/24	Nos.	117.00
2516	HRC 510 125W	Nos.	3001.65
2517	HRC 510 BSN 70W	Nos.	4292.12
2518	HRC 510 PL. COVER	Nos.	367.22
2519	HRC 510W WITH 125W GEAR	Nos.	4262.52
2520	HRC 511 PL. COVER	Nos.	664.48
2521	HRC 511 WITH 250 W (MV)	Nos.	3010.41
2522	HRC 511 WITH 250W IMPG. GEAR	Nos.	2510.82
2523	HRP38	Nos.	2056.93
2524	HRP 38 (WITH 125W BHL)	Nos.	3087.50
2525	HRP 38 PLASTIC COVER	Nos.	445.30
2526	HRP 38PIW (WITH SON 70W)	Nos.	3004.06
2527	HSPQ 545 LUMN. SET	Nos.	3051.49
2528	HSPQ545 PLASTIC COVER	Nos.	1047.76
2529	LEDtube 1200mm 16W 740 T8 AP C G	Nos.	526.50
2530	LEDtube 1200mm 16W 765 T8 AP C G	Nos.	526.50
2531	LEDtube 600mm 8W 740 T8 AP C G	Nos.	409.50
2532	LEDtube 600mm 8W 765 T8 AP C G	Nos.	409.50
2533	LRM1000/00 OS MOV DET	Nos.	3000.11
2534	LRM1010/00 OS MOV DET Small	Nos.	3006.90
2535	LUNAR 14/18W SURFACE MOUNTED	Nos.	756.12
2536	LUNAR 14/18W WITH GLASS COVER	Nos.	613.08
2537	LUNAR 18/14W TRADE	Nos.	362.93
2538	LUNAR MINI 05/08/11W	Nos.	223.91
2539	LX052X 60xLED-LP-4000	Nos.	10590.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2540	MAS LEDspotMV 17-90W 827 PAR38 00	Nos.	5399.43
2541	MAS LEOsDotMV 0 5.4-50W GU10 927 400	Nos.	117.00
2542	MAS LEOsDotMV 0 5.5-50W GU10 827 250	Nos.	1755.00
2543	MAS LEOsDotMV 0 5.5-50W GU10 840 250	Nos.	117.00
2544	MAS LEOspotMV 0 5.5-50W GU10 840 400	Nos.	1755.00
2545	MAS LEOtube STO 1200mm 14.5W865 T8 I	Nos.	1872.00
2546	MAS LEOtube STO 1200mm 14.5W865 T81 W	Nos.	1872.00
2547	MAS LEOtube STO 1200mm 16W840 T81	Nos.	1462.50
2548	MAS LEDtube STO 1200mm 16W865 T81	Nos.	1872.00
2549	MAS LEOtube STO 1200mm 20W830 T81	Nos.	117.00
2550	MAS LEDtube STO 1200mm 20W830 T8 I	Nos.	117.00
2551	MAS LEOtube STO 1200mm 20W840 T8 I	Nos.	117.00
2552	MAS LEOtube STO 1200mm 20W865 T8 I	Nos.	1638.00
2553	MAS LEDtube STO 1200mm 20W865 T81	Nos.	117.00
2554	MASTER HPI Plus 250W/645 BU E40 1SLI12	Nos.	1216.80
2555	MASTER HPI Plus 250W/645 BU-P E40 1SLI12	Nos.	1579.50
2556	MASTER HPI Plus 400W/645 BU E40 1 SLI6	Nos.	1392.30
2557	MASTER HPI Plus 400W/645 BUS-P E40 1SLI6	Nos.	1755.00
2558	MASTER HPI-T Plus 250W/645 E40 1SLI12	Nos.	1146.60
2559	MASTER HPI-T Plus 400W/645 E40 1SLI12	Nos.	1263.60
2560	MASTER LED 18-100W 2700K PAR38 250 Dim	Nos.	5399.43
2561	MASTER LED 4-35W 3000K MR16 240	Nos.	117.00
2562	MASTER LED 7.2-50+W 2700K MR16 240 Dim	Nos.	117.00
2563	MASTER LED 7.2-50+W 3000K MR16 360 Dim	Nos.	117.00
2564	MASTER LED 7-50W+ 840 MR16 240	Nos.	117.00
2565	MASTER LED 7-50W+ 840 MR16 360	Nos.	117.00
2566	MASTER MHN-SA 2000W/956 400V XW UNP/1	Nos.	23600.07
2567	MASTER PL-T 42W/840/4P 1CT/5X10BOX	Nos.	58.50
2568	MASTER TL5 Circular 40W/827 1CT/10	Nos.	321.75
2569	MASTER TL5 HE 14W/840 SLV/40	Nos.	58.50
2570	MASTER TL5 HE 28W/840 SLV/40	Nos.	87.75
2571	MASTER TL5 HO 54W/840 SLV/40	Nos.	440.80
2572	MASTER TL5 HO 54W/865 SL VI40	Nos.	117.00
2573	MASTER TL-O 90 De Luxe 18W/965 SLV/10	Nos.	367.38
2574	MASTER TL-O 90 De Luxe 36W/965 SLV/10	Nos.	391.95
2575	MASTERC COM-T 150W/830 G12 1CT	Nos.	117.00
2576	MASTERC COM-T 35W/830 G12 1CT/12	Nos.	117.00
2577	MASTERC COM-T 70W/830 G121CT/12	Nos.	117.00
2578	MASTERC COM-T 70W/942 G12 1CT/12	Nos.	117.00
2579	MASTERC COM-TP 150W/830 PGX12-2 1CT/12	Nos.	117.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2580	MC COM-Tm Elite Mini 35W/930 GU6.51CT	Nos.	117.00
2581	MOK 580 WITH BSN 250W	Nos.	4998.18
2582	MH 100W/640 E27 P CO 1CT/24	Nos.	585.00
2583	MH 150W/637 E27 CO 1SLI24	Nos.	585.00
2584	MHN-TO 70W/842 RX7s 1CT/12	Nos.	234.00
2585	ML 160W E27 220-230V SG 1CT/24	Nos.	265.59
2586	ML 250W E40 220-230V HG 1SLI12	Nos.	403.65
2587	ML 500W E40 220-230V HG 1 SLI6	Nos.	585.00
2588	MPF-932 SRL	Nos.	6756.12
2589	MST SON-T PIA Plus 100W E40 1SLI12	Nos.	772.61
2590	MST SON-T PIA Plus 150W E40 1SLI12	Nos.	813.79
2591	MST SON-T PIA Plus 250W E40 1SLI12	Nos.	897.67
2592	MST SON-T PIA Plus 400W E40 1SLI12	Nos.	1013.66
2593	MSTR TLEO INT STO 600mm 10W840 T8	Nos.	292.50
2594	PAR38 120W E27 240V FL 1CT/6	Nos.	270.00
2595	PAR38 23W COL E27 220-240V 1 CT/3X2F	Nos.	702.00
2596	PAR38 23W WW E27 220-240V 1CT/3X2F	Nos.	702.00
2597	PH 136 STRIPLITE PLUS	Nos.	345.15
2598	PH 315/136 EB-C EP	Nos.	397.80
2599	PH-120 PLUS	Nos.	381.79
2600	PH-128 W	Nos.	416.61
2601	PH-136 PLUS P&I	Nos.	480.17
2602	QB5 080 Plain Silver	Nos.	60.02
2603	QBS 080 TM White	Nos.	60.02
2604	QBS020 1x MAX35W/12V-GU4 WH	Nos.	325.65
2605	QBS050 MAX50W-GX5.3 12V WH	Nos.	160.29
2606	QBS050-2 WH	Nos.	362.70
2607	QVF133 HAL-TDS150W 220V-50Hz	Nos.	389.38
2608	R125 IR 375W E27 230-250V CL 1CT/10	Nos.	690.30
2609	R95 IR 100W E27 230V Red 1CT/25	Nos.	220.00
2610	RC098V LED22S/840 W60L60 GM	Nos.	4492.80
2611	RC098V LED22S/865 W60L60 GM	Nos.	4492.80
2612	RC100C LED35S/840 PSU W60L60	Nos.	10296.00
2613	RC100C LED35S/865 PSU W60L60	Nos.	11898.90
2614	Ref100W E27 230V E80 800 1CT/30	Nos.	80.00
2615	Ref140W E14 230V NR50 300 1CT/30	Nos.	2.13
2616	Ref1 60W E27 230V NR63 300 FR 1 CT/30	Nos.	51.00
2617	RVP 350 HPI-7250W IC 230V 50HZ	Nos.	6162.00
2618	RVP 350 HPI-T400W IC 230V-50HZ	Nos.	6552.00
2619	RVP 350 SON-T 250W IC	Nos.	7905.41

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2620	RVP 350 SON-T 400W IC	Nos.	9446.95
2621	S10-P 4-65W SIN 220-240V BL 20X25 APR	Nos.	17.55
2622	S2-P 4-22W SER 220-240V BL 20X25 APR	Nos.	17.26
2623	SGP 338150W BSN IMPG	Nos.	16500.00
2624	SGP 338 250W BHL GEAR	Nos.	14307.06
2625	SGP 338 WITH 250W IMPG.	Nos.	19499.22
2626	SGP 338 WITH GEAR	Nos.	20500.00
2627	SI51 Plus	Nos.	237.17
2628	SINGLE LIH TMS 015	Nos.	38.61
2629	SINGLE LIH TMS 015	Nos.	71.37
2630	SINGLE LAMP HOLDER TMS 15/136	Nos.	37.44
2631	SN 56	Nos.	474.35
2632	SN 57	Nos.	713.70
2633	SON 150W E E40 CO 1 SLI12	Nos.	585.00
2634	SON 250W E E40 CO 1 SLI12	Nos.	719.55
2635	SON 400W E E40 CO 1 SLI12	Nos.	807.30
2636	SON 70W E E27 CO 1 CT/24	Nos.	374.40
2637	SON 70W/220 I E27 1 CT/24	Nos.	579.96
2638	SON-T 1000W E E40 1SLI4	Nos.	2847.34
2639	SON-T 100W E E40 SLI12	Nos.	460.94
2640	SON-T 400W E E40 SLI12	Nos.	807.30
2641	SON-T 70W/220 E27 1CT/12	Nos.	413.54
2642	SPP186 SON-T250W 230V-50Hz GB GR 48/60S	Nos.	13455.00
2643	SU 52	Nos.	2837.25
2644	TANGO 3 W/O GEAR	Nos.	6093.75
2645	TANGO 3 WITH 400W BHL (IMPG.)	Nos.	7933.56
2646	TANGO 3 WITH BHL 250W IMPG.	Nos.	7254.00
2647	TANGO 3 WITH BSN 250W IMPG.	Nos.	9091.22
2648	TANGO 3 WITH BSN 400W IMPG.	Nos.	10497.94
2649	T ANGO-3 (WITH BSN 150W)	Nos.	8142.57
2650	TBS 088 1 236 G2 WITH EBE	Nos.	2109.18
2651	TBS 088/418 EBC 218 G2+ FRAME	Nos.	2745.92
2652	TBS 088/418 EBE 2x18W	Nos.	2395.34
2653	TBS 088/418 FOR LED TUBE	Nos.	1626.30
2654	TBS 088/418 G2 ALUTRADE	Nos.	1990.74
2655	TBS 300E/240 EBE	Nos.	1663.47
2656	TBS 300E/240 WITH CAPACITOR	Nos.	2109.51
2657	TBS 300E/420 EBE	Nos.	2029.59
2658	TBS 300E/420 EBE-2x18W WITH BATTERY PACK	Nos.	9710.20
2659	TBS 300E/420 WITH CAPACITOR	Nos.	2139.20

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2660	TBS-088/236 G2 ALUTRADE	Nos.	1990.74
2661	TBS299 4xTL5-14W HF G2	Nos.	3215.51
2662	TBS-299-414+PR	Nos.	3478.37
2663	TCS 240 EBC PS	Nos.	3093.48
2664	TCS 240 EBE 236	Nos.	1758.98
2665	TCS 240 WITH CAPACITOR	Nos.	2196.73
2666	TCS 398/236 EBE M6	Nos.	3661.22
2667	TCS 420 LV WITH CAPACITOR	Nos.	2562.86
2668	TCS-240 KIA EBE	Nos.	2275.90
2669	TCS-398/236 EBC + M2+ BP	Nos.	12000.69
2670	TCS420-EBC218	Nos.	2390.25
2671	TCW 097/136 WITH EBE	Nos.	3773.45
2672	TCW 097/228 EBC	Nos.	4457.14
2673	TCW 097/236 EB WITH BATTERYPACK	Nos.	15000.57
2674	TCW 097/236 EBE	Nos.	4329.80
2675	TCW 097/236 FOR LEO TUBE	Nos.	3913.45
2676	TCW097 1xTL-036W IC	Nos.	2574.00
2677	TL 20W/52 SLV/25	Nos.	982.80
2678	TL5 Essential 14W/830 1SLI40	Nos.	111.15
2679	TL5 Essential 14W/840 1SLI40	Nos.	111.15
2680	TL5 Essential 14W/8651SLI40	Nos.	111.15
2681	TL5 Essential 28W/830 1 SLI40	Nos.	131.04
2682	TL5 Essential 28W/840 1 SLI40	Nos.	131.04
2683	TL5 Essential 28W/865 1 SLI40	Nos.	131.04
2684	TL-O 36W BLB 1 SLI25	Nos.	936.00
2685	TL-O 58W/840 1 SLI25	Nos.	218.79
2686	TL-O 58W/865 1SLI25	Nos.	219.25
2687	TL-X XL 40W/33-640 SLV/25	Nos.	1023.75
2688	TMS 0151 * 10 W LEO TUBE	Nos.	336.96
2689	TMS 015 1 * 19/20 W LEO TUBE	Nos.	514.80
2690	TMS 015/118 (EBE VER.)	Nos.	679.86
2691	TMS 015/118 (LUMN)	Nos.	715.00
2692	TMS 015/118 WITH CAPACITOR	Nos.	910.93
2693	TMS 015/136	Nos.	789.28
2694	TMS 015/136 EBC S.V.	Nos.	727.30
2695	TMS 015/136 EBE	Nos.	841.44
2696	TMS 015/136 S.V.	Nos.	682.50
2697	TMS 015/136 WITH CAPCITORS	Nos.	967.20
2698	TMS 015/236	Nos.	1321.29
2699	TMS 015/236 (EBC WITH TOP-COV)	Nos.	1137.02

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2700	TMS 015/236 EBE S.V.	Nos.	1049.79
2701	TMS 015/236 FOR LEO TUBE	Nos.	593.01
2702	TMS 015/236 SV	Nos.	1253.57
2703	TMS 015/236 WITH CAPACITOR	Nos.	1517.84
2704	TMS 215/114 EBB	Nos.	413.88
2705	TMS 215/114 EBC	Nos.	628.77
2706	TMS 215/128 EBB	Nos.	585.00
2707	TMS 215 / 228 EBC	Nos.	1042.66
2708	TMS 215/128 EB-C	Nos.	764.08
2709	TMS 215/228 EBC	Nos.	1026.76
2710	TMS 315/118 EBC EP	Nos.	435.67
2711	TMS 315/136 EB-C EP	Nos.	500.76
2712	TMS015136 FOR LEO TUBE	Nos.	415.65
2713	TMS-015 S.V. for 1*14.5 W LEO	Nos.	356.85
2714	TPS498 C 2xTL-036W HFE 011 M6	Nos.	2010.06
2715	TRB 140 W/O COVER	Nos.	1030.24
2716	TRB 140/240 PL.COVER	Nos.	454.65
2717	TRB 240 W/O COVER	Nos.	2155.69
2718	TUV 11W 4P SE UNP/32	Nos.	356.09
2719	TUV 36T5 HE 4P SE UNP/32	Nos.	1872.00
2720	TUV 36W SLV/6	Nos.	1023.75
2721	TWIN LIH TMS 015	Nos.	87.75
2722	TWIN LIH TMS 015	Nos.	87.75
2723	WT099C LE036 CW PSU L 1200	Nos.	5550.00
2724	XGP500 1 xLXM2/RO 24-48V	Nos.	18999.63
2725	ZOK 580 GLASS COMPLETE	Nos.	1708.20
2726	Break Water Stones (2 Tons) excluding Carriage	Nos.	1,500
2727	Break Water Stones (4 Tons) excluding Carriage	Nos.	2,500
2728	Break Water Stones (6 Tons) excluding Carriage	Nos.	4,500
2729	Break Water Stones (8 Tons) excluding Carriage	Nos.	6,500
	Elevators		
2730	630 Kg/ 8 person capacity Lift	Nos.	1,000,000
2731	1000 Kg/ 13 person capacity Lift	Nos.	1,050,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2732	Supply of imported brand new passenger/patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish,indoor type for ambient condition of 45 °C, capacity of 1275 Kg/17 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 1100mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices,Two (02) Years of defect liability period with spare parts for use of two years complete in all respects as per specification and according to EN 81 standard compliance. (Also Refer to Technical data sheet)		1,300,000
2733	Supply of imported brand new passenger/patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish,indoor type for ambient condition of 45 °C, capacity of 1275 Kg/17 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 1100mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices,Two (02) Years of defect liability period with spare parts for use of two years complete in all respects as per specification and according to EN 81 standard compliance. (Also Refer to Technical data sheet) including 17 % Sales Tax on Supply, 5% Custom Duty , 6% withholding tax & 2% other taxes		1,350,000
2734	Supply of imported brand new passenger/patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish,indoor type for ambient condition of 45 °C, capacity of 1600 Kg/21 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 1300mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices,Two (02) Years of defect liability period with spare parts for two years complete in all respects as per specification and according to EN 81 standard compliance. (Also Refer to Technical data sheet) including 17 % Sales Tax on Supply, 5% Custom Duty , 6% withholding tax & 2% other taxes		1,400,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2735	Supply of imported brand new passenger/patient Elevator, Machine Room Less (MRL), heavy duty fully complied and certified by latest EN 81 Standards and for public use in buildings of minimum features including but not limited to VVVF high efficiency motor, complete stainless steel finish, indoor type for ambient condition of 45 °C, capacity of 2000 Kg/26 persons, speed 1 m/sec, 04stops/04 openings, total travel height 16 m, entrance 1300mm. Lift shall minimum includes car, hoisting machinery, counter-weight, supports, brackets, automatic controls, embedded parts, access ladder, separator screen & trap door, electric overload buzzer, shaft lightening, intercom system, gong, emergency operation for cabin/door, emergency rescue device (ups/battery) safety devices, Two (02) Years of defect liability period with spare parts for two years complete in all respects as per specification and according to EN 81 standard compliance. (Also Refer to Technical data sheet) including 17 % Sales Tax on Supply, 5% Custom Duty , 6% withholding tax & 2% other taxes		1,450,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2736	Double Glazed Windows with tinted tempered Glass	Sq.m	12,912
2737	Installation testing & Commissioning of Lift	Lumpsum	754,000
2738	Civil and Allied Works relevant to necessary adjustments which will be required during installation of new equipment.	Lumpsum	200,000
2739	Electrical & Ancillary Works for elevators , fans including outside DB, breakers cabling and other accessories etc. (Complete in all respect).	Lumpsum	150,000
2740	Light Fixture Philips Type LED 13W	Nos.	550.00
2741	Light Fixture Philips Type LED 1smart panel (2x2) 36 W	Nos.	13,500.00
2742	Light Fixture Philips Type Decolinca LED 4 Feet	Nos.	1,850.00
2743	750 Watt UPS	Nos.	30,000.00
2744	1000 Watt UPS	Nos.	35,000.00
2745	1500 Watt UPS	Nos.	40,000.00
2746	2000 Watt UPS	Nos.	60,000.00
2747	Fire resistance insulated 2-core, 1.5mm ² cable	Rft	35.00
2748	Addressable break glass manual call stations (Copper Menvier UK, Honey well,Gent or approved equivalent).	Each	3,600.00
2749	Addressable sounder and accessories (Copper Menvier UK, Honey well,Gent or approved equivalent).	Each	6,000.00
2750	Addressable Photo electric Smoke Detectors as approved by the engineer (Copper Menvier UK, Honey well, Gent or	Each	2,880.00
2751	Addressable Heat Detectors as approved by the engineer (Copper Menvier UK, Honey well, Gent or approved	Each	2,880.00
2752	Addressable Fire Alarm Control Panel as per project specified requirements (2 Loop) including backup battery, complete with	Each	155,000.00
	Precast H Columns		
2753	H. Column 6"x7" upto 10'	Rft	200
2754	H. Column 6"x7" upto 12'	Rft	220
2755	H. Column 6"x7" upto 14'	Rft	240
2756	H. Column 6"x7" upto 16'	Rft	260
2757	H. Column 7"x7" upto 10'	Rft	220
2758	H. Column 7"x7" upto 12'	Rft	240
2759	H. Column 7"x7" upto 14'	Rft	260
2760	H. Column 7"x7" upto 16'	Rft	280
2761	H. Column 6"x8" upto 10'	Rft	230
2762	H. Column 6"x8" upto 12'	Rft	250
2763	H. Column 6"x8" upto 14'	Rft	270
2764	H. Column 6"x8" upto 16'	Rft	290
2765	H. Column 7"x8" upto 10'	Rft	250
2766	H. Column 7"x8" upto 12'	Rft	270
2767	H. Column 7"x8" upto 14'	Rft	290

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2768	H. Column 7"x8" upto 16'	Rft	310
2769	Double Glazed Curtain wall in Structural works including 6mm imported heat resistant glass	Sq.m	17,216
2770	COMPLETE SETS (8 PCS) 1/2"		
2771	Common Bath Set with noble hand shower 009/1, 010/3, 025/1, 027B/1, 085/1, 2015/1(3002)	Set	13,871.00
2772	Cobra Set with noble hand shower 009/1, 010/3, 045B/1, 055/1, 085/1, 2015/1(3003)	Set	15,528.00
2773	Charisma Set with noble hand shower 009/1, 010/3, 051/1, 053B/1, 085/1, 2015/1(3006)	Set	15,657.00
2774	Common Bath Set with wall shower 009/1, 010/3, 025/1, 029/1, 085/1, 2015/1(3007)	Set	14,870.00
2775	Charisma Set with wall shower 009/1, 010/3, 051/1, 054/1, 085/1, 2015/1(3008)	Set	16,714.00
2776	Kira Set with noble hand shower 009/1, 010/3, 042/1, 043B/1, 085/1, 2015/1(3009)	Set	16,066.00
2777	Kira Set with wall shower 009/1, 010/3, 042/1, 043A/1, 129/1, 085/1, 2015/1(3009A)	Set	18,306.00
2778	Iris Set with noble hand shower 009/1, 010/3, 113/1, 114/1, 085/1, 2015/1(3011)	Set	19,888.00
2779	Iris Set with wall shower 009/1, 010/3, 113/1, 114B/1, 085/1, 2015/1(3011A)	Set	21,032.00
2780	Pansy Set with noble hand shower 009/1, 010/3, 117/1, 118/1, 085/1, 2015/1(3012)	Set	18,543.00
2781	Pansy Set with wall shower 009/1, 010/3, 117/1, 118B/1, 085/1, 2015/1(3012A)	Set	20,270.00
2782	Jazz Set with noble hand shower 009/1, 010/3, 125/1, 126/1, 085/1, 2015/1(3013)	Set	18,962.00
2783	Jazz Set with wall shower 009/1, 010/3, 125/1, 126B/1, 085/1, 2015/1(3013A)	Set	19,828.00
2784	Caper Set with caper hand shower 119/1, 120/1, 122/3, 123/1, 2015/1(3015)	Set	28,412.00
2785	Caper Set with caper wall shower 119/1, 121/1, 122/3, 123/1, 2015/1(3015A)	Set	31,665.00
2786	Victoria Set with noble hand shower 034/1, 038/1, 067/3, 069/1, 085/1, 2015/1(3017)	Set	15,080.00
2787	Victoria Set with wall shower 034/1, 038B/1, 067/3, 069/1, 085/1, 2015/1(3017A)	Set	15,382.00
2788	Regal Set with noble hand shower 035/1, 039/1, 068/3, 070/1, 085/1, 2015/1(3018)	Set	12,538.00
2789	Regal Set with wall shower 035/1, 039B/1, 068/3, 070/1, 085/1, 2015/1(3018A)	Set	12,898.00
2790	Elite Set with Elite hand shower 071/1, 073/1, 075/3, 077/1, 085/1, 2015/1(3019)	Set	20,714.00
2791	Elite Set with Elite wall shower 071/1, 073B/1, 075/3, 077/1, 085/1, 2015/1(3019A)	Set	20,909.00
2792	Lexus Set with Elite hand shower 072/1, 074/1, 076/3, 078/1, 085/1, 2015/1(3020)	Set	17,822.00
2793	Lexus Set with Elite wall shower 072/1, 074B/1, 076/3, 078/1, 085/1, 2015/1(3020A)	Set	18,018.00
2794	Delta Set with noble hand shower 040/1, 041/1, 010/3, 009/1, 085/1, 2015/1(3023)	Set	20,509.00
2795	Delta Set with wall shower 040/1, 041B/1, 010/3, 009/1, 085/1, 2015/1(3023A)	Set	22,583.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2796	Tempo Set with noble hand shower 133/1, 134/1, 068/3, 070/1, 085/1, 2015/1(3025)	Set	19,247.00
2797	Tempo Set with wall shower 133/1, 134B/1, 068/3, 070/1, 085/1, 2015/1(3025A)	Set	20,316.00
2798	Solo Set with common hand shower 081/3, 092/1, 139/1, 154/1, 153/1, 2015/1(3031)	Set	11,566.00
2799	Solo Set with wall shower 081/3, 092/1, 139/1, 154/1, 153/1, 2015/1(3031A)	Set	12,982.00
2800	Orient Set with noble hand shower 145/1, 146/1, 068/3, 070/1, 085/1, 2015/1(3033)	Set	19,724.00
2801	Orient Set with wall shower 145/1, 146B/1, 068/3, 070/1, 085/1, 2015/1(3033A)	Set	20,700.00
2802	Bravo Set with noble hand shower 147/1, 148/1, 010/3, 009/1, 085/1, 2015/1(3034)	Set	26,427.00
2803	Bravo Set with wall shower 147/1, 148B/1, 010/3, 009/1, 085/1, 2015/1(3034A)	Set	31,242.00
2804	Ideal Set with noble hand shower 155/1, 156/1, 068/3, 070/1, 085/1, 2015/1(3035)	Set	23,539.00
2805	Ideal Set with wall shower 155/1, 156B/1, 068/3, 070/1, 085/1, 2015/1(3035A)	Set	25,439.00
2806	Ideal Set with noble hand shower and basin mixer with 4"height 155/1, 156/1, 068/3, 070/1, 085/1, 2015/1(3035B)	Set	24,254.00
2807	Ideal Set with wall shower and basin mixer with 4"height 155A/1, 156B/1, 068/3, 070/1, 085/1, 2015/1(3035C)	Set	26,155.00
2808	Ideal Set with noble hand shower and basin mixer with 6"height 155B/1, 156/1, 068/3, 070/1, 085/1, 2015/1(3035D)	Set	24,719.00
2809	Ideal Set with wall shower and basin mixer with 6"height 155B/1, 156B/1, 068/3, 070/1, 085/1, 2015/1(3035E)	Set	26,621.00
2810	Sigma Set with noble hand shower 157/1, 158/1, 010/3, 009/1, 085/1, 2015/1(3037)	Set	26,434.00
2811	Sigma Set with wall shower 157/1, 158B/1, 010/3, 009/1, 085/1, 2015/1(3037A)	Set	30,583.00
2812	Aabshar Set with noble hand shower 159/1, 160/1, 068/3, 070/1, 085/1, 2015/1(3038)	Set	20,903.00
2813	Aabshar Set with wall shower 159/1, 160B/1, 068/3, 070/1, 085/1, 2015/1(3038A)	Set	21,093.00
2814	Dream Set with noble hand shower 163/1, 164/1, 068/3, 070/1, 085/1, 2015/1(3039)	Set	23,860.00
2815	Dream Set with dream wall shower 163/1, 164B/1, 068/3, 070/1, 085/1, 2015/1(3039A)	Set	25,298.00
2816	Bello Set with common hand shower 081/3, 092/1, 165/1, 166/1, 139/1, 2015/1(3040)	Set	13,060.00
2817	Bello Set with wall shower 081/3, 092/1, 165/1, 166B/1, 139/1, 2015/1(3040A)	Set	14,665.00
2818	Dura Set with noble hand shower 167/1, 168/1, 009/1, 010/3, 085/1, 2015/1(3041)	Set	24,701.00
2819	Dura Set with wall shower 167/1, 168B/1, 009/1, 010/3, 085/1, 2015/1(3041A)	Set	28,789.00
2820	Alba Set with common hand shower 172/1, 173/1, 092/1, 081/3, 139/1, 2015/1(3042)	Set	12,731.00
2821	Alba Set with wall shower 172/1, 173/1, 092/1, 081/3, 139/1, 2015/1(3042A)	Set	14,187.00
2822	Alba Set with common hand shower and basin mixer with 4" height 172A/1, 173/1, 092/1, 081/3, 139/1, 2015/1(3042B)	Set	13,483.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2823	Alba Set with wall shower and basin mixer with 4" height 172A/1, 173B/1, 092/1, 081/3, 139/1, 2015/1(3042C)	Set	14,939.00
2824	Alba Set with common hand shower and basin mixer with 6" height 172B/1, 173/1, 092/1, 081/3, 139/1, 2015/1(3042D)	Set	13,932.00
2825	Alba Set with wall shower and basin mixer with 6" height 172B/1, 173B/1, 092/1, 081/3, 139/1, 2015/1(3042E)	Set	15,389.00
2826	Alpha Set with noble hand shower 174/1, 175/1, 070/1, 068/3, 085/1, 2015/1(3043)	Set	17,787.00
2827	Alpha Set with wall shower 174/1, 175B/1, 070/1, 068/3, 085/1, 2015/1(3043A)	Set	18,559.00
2828	Chicada Set with noble hand shower 176/1, 177/1, 068/3, 070/1, 085/1, 2015/1(3044)	Set	19,576.00
2829	Chicada Set with wall shower 176/1, 177/1, 068/3, 070/1, 085/1, 2015/1(3044A)	Set	20,924.00
2830	Caprice Set with noble hand shower 178/1, 179/1, 184/3, 185/1, 085/1, 2015/1(3045)	Set	17,313.00
2831	Caprice Set with wall shower 178/1, 179B/1, 184/3, 185/1, 085/1, 2015/1(3045A)	Set	18,104.00
2832	Cello Set with common hand shower 180/1, 181/1, 092/1, 081/3, 139/1, 2015/1(3046)	Set	13,016.00
2833	Cello Set with wall shower 180/1, 181B/1, 092/1, 081/3, 139/1, 2015/1(3046A)	Set	14,428.00
2834	Cello Set with common hand and basin mixer with 4" height 180A/1, 181/1, 092/1, 081/3, 139/1, 2015/1(3046B)	Set	13,788.00
2835	Cello Set with wall shower and basin mixer with 4" height 180A/1, 181B/1, 092/1, 081/3, 139/1, 2015/1(3046C)	Set	15,245.00
2836	Cello Set with common hand shower and basin mixer with 6" height 180B/1, 181/1, 092/1, 081/3, 139/1, 2015/1(3046D)	Set	14,248.00
2837	Cello Set with wall shower and basin mixer with 6" height 180B/1, 181B/1, 092/1, 081/3, 139/1, 2015/1(3046E)	Set	15,705.00
2838	Bold Set with bold hand shower 182/1, 183/1, 070/1, 068/3, 085/1, 2015/1(3051)	Set	24,206.00
2839	Bold Set with wall shower 182/1, 183B/1, 070/1, 068/3, 085/1, 2015/1(3051A)	Set	26,033.00
2840	Desire Set with bold hand shower 230/1, 231/1, 199/1, 068/3, 085/1, 2027/1, (3052).	Set	24,869.00
2841	Desire Set with wall shower 230/1, 231B/1, 199/1, 068/3, 085/1, 2027/1, (3052A).	Set	26,048.00
2842	Thermaster Set (quarter round) with noble hand shower 193/1, 194/1, 233/1, 232/3, 085/1, 2027/1 (3053)	Set	18,430.00
2843	Thermaster Set (quarter round) with wall shower 193/1, 194B/1, 233/1, 232/3, 085/1, 2027/1 (3053A)	Set	19,969.00
2844	Thermaster Set (Thermostat) with noble hand shower 195/1, 196/1, 233/1, 232/3, 085/1, 2027/1 (3054)	Set	22,478.00
2845	Thermaster Set (Thermostat) with wall shower 195/1, 196B/1, 233/1, 232/3, 085/1, 2027/1 (3054A)	Set	24,019.00
2846	ECO Set with noble hand shower 191/1, 192/1, 068/3, 199/1, 085/1, 2015/1 (3055)	Set	13,582.00
2847	ECO Set with wall shower 191/1, 192B/1, 068/3, 199/1, 085/1, 2015/1 (3055A)	Set	13,467.00
2848	Susan Plus Set with noble hand shower 197/1, 198/1, 199/1, 068/3, 085/1, 2015/1 (3056)	Set	13,625.00
2849	Susan Plus Set with wall shower 197/1, 198B/1, 199/1, 068/3, 085/1, 2015/1 (3056A)	Set	14,396.00

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2850	Siesta Set with bold hand shower 235/1, 234/1, 070/1, 068/3, 085/1, 2027/1, (3057).	Set	20,850.00
2851	Siesta Set with wall shower 235B/1, 234/1, 070/1, 068/3, 085/1, 2027/1, (3057A).	Set	22,787.00
2852	Siesta Set with bold hand shower and basin mixer with 6" height 235/1, 234B/1, 070/1, 068/3, 085/1, 2027/1, (3057D).	Set	22,226.00
2853	Siesta Set with bold overhead shower and basin mixer with 6" height 235B/1, 234B/1, 070/1, 068/3, 085/1, 2027/1, (3057E).	Set	24,164.00
2854	Pelican Set with noble hand shower 236/1, 237/1, 199/1, 068/3, 085/1, 2015/1 (3058)	Set	17,186.00
2855	Pelican Set with wall shower 236/1, 237B/1, 199/1, 068/3, 085/1, 2015/1 (3058A)	Set	18,508.00
2856	Pelican Set with noble hand shower and basin mixer with 6" height 236B/1, 237/1, 199/1, 068/3, 085/1, 2015/1, (3058D).	Set	18,399.00
2857	Pelican Set with wall shower and basin mixer with 6" height 236B/1, 237B/1, 199/1, 068/3, 085/1, 2015/1, (3058E).	Set	19,721.00
2858	Quad Set with Hand Shower 247/1, 248/1, 267/3, 266/1, 085/1, 2027/1(3061)	Set	21,032.00
2859	Quad Set with Wall Shower 247/1, 248B/1, 267/3, 266/1, 085/1, 2027/1(3061A)	Set	24,982.00
2860	Supreme Set with Hand Shower 257/1, 258/1, 267/3, 266/1, 085/1, 2027/1(3062)	Set	24,737.00
2861	Supreme Set with Wall Shower 257/1, 258B/1, 267/3, 266/1, 085/1, 2027/1(3062A)	Set	29,163.00
2862	Axis Set with Hand Shower 259/1, 260/1, 070/1, 068/3, 085/1, 2027/1(3063)	Set	20,475.00
2863	Axis Set with Wall Shower 259/1, 260B/1, 070/1, 068/3, 085/1, 2027/1(3063A)	Set	22,403.00
2864	Vintace Set with Hand Shower 261/1, 262/1, 267/3, 266/1, 085/1, 2027/1(3064)	Set	28,638.00
2865	Vintace Set with Wall Shower 261/1, 262B/1, 267/3, 266/1, 085/1, 2027/1(3064A)	Set	32,759.00
2866	Hexa Set with Hand Shower 243/1, 244/1, 263/1, 265/3, 085/1, 2027/1(3065)	Set	26,706.00
2867	Hexa Set with Wall Shower 243/1, 244B/1, 263/1, 265/3, 085/1, 2027/1(3065A)	Set	27,067.00
2868	Galaxy Set with Hand Shower 245/1, 246/1, 070/1, 068/3, 085/1, 2027/1(3066)	Set	21,704.00
2869	Galaxy Set with Wall Shower 245/1, 246B/1, 070/1, 068/3, 085/1, 2027/1(3066A)	Set	23,918.00
2870	Gutka (3"x3"x9")	Nos.	25
2871	Gutka (2"x2"x9")	Nos.	18
2872	Bus bar (6 to 10 Ampere)	Nos.	900
2873	Circuit Breaker 6 Ampere	Nos.	900
2874	Gas Hub with 3 burner	Nos.	7,500
2875	Gas Hub with 5 Burner (SMC)	Nos.	13,500
2876	G.I Razor Wire	Rft	400
2877	Pile load Test (50)	Job	150,000
2878	Pile load Test (50-100)	Job	200,000
2879	Pile load Test (100-150)	Job	250,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2880	Pile load Test (150-200)	Job	300,000
2881	Steel Casing of Piles/Piers	Tonne	80,000
2882	Precast Water Channel (PCPL) (14 x 9)	Each	520
2883	Precast Water Channel (PCPL) (18 x 12)	Each	617
2884	Precast Water Channel (PCPL) (24 x 14)	Each	735
2885	Precast Water Channel (PCPL) (24 x 18)	Each	971
2886	Precast Water Channel (PCPL) (27 x 18)	Each	1,026
2887	Precast Water Channel (PCPL) (30 x 21)	Each	1,353
2888	Precast Water Channel (PCPL) (36 x 24)	Each	1,694
2889	Precast Water Channel (PCPL) (45 x 27)	Each	1,828
2890	InstallationPrecast Water Channel (PCPL) (14 x 9)	Each	317
2891	InstallationPrecast Water Channel (PCPL) (18 x 12)	Each	331
2892	InstallationPrecast Water Channel (PCPL) (24 x 14)	Each	344
2893	InstallationPrecast Water Channel (PCPL) (24 x 18)	Each	385
2894	InstallationPrecast Water Channel (PCPL) (27 x 18)	Each	425
2895	InstallationPrecast Water Channel (PCPL) (30 x 21)	Each	473
2896	InstallationPrecast Water Channel (PCPL) (36 x 24)	Each	520
2897	InstallationPrecast Water Channel (PCPL) (45 x 27)	Each	608
2898	16" Dia Concrete Cover along with Frame	Each	3,500
2899	18" Dia Concrete Cover along with Frame	Each	4,500
2900	20" Dia Concrete Cover along with Frame	Each	5,500
2901	Elastomeric Bearing Pads (According to Size and Thickness) local	Cu.cm	1.5
2902	Elastomeric Bearing Pads (According to Size and Thickness) Imported	Cu.cm	5.5
2903	Steel or Metal Bearing Devices	Kg	178
2904	Gadab Stone	Sq.m	1,500
2905	Youb Stone	Sq.m	1,000
2906	Double glazed wall clading	Sq.m	19,368
2907	All in one Solar Street Light	per watt	3,150
2908	Base Dia = 190mm, Top Dia = 90mm, Thickness = 4.50mm, 7-Meter (Shaft 'L' = 7000mm) High Pole, Hot Dip Galvanized as per given specification. Shaft 'L' = 7000mm, Arm Dia = 60mm x 3.65mm, Arm Length = 1000mm, Base Plate = 400 x 400 x 20mm Thk., Stiffener = 75 x 200 x 16mm Thk., Weight Of Pole = 160-170-Kg, Coating of Hot Dip Galvanized along with galvanized iron side arm for lighting fixture.	Nos.	40,000
2909	2.5 mm ² , multi-strand DC wire (cables) for solar panel, battery and charge controller.	Rm	1,040
2910	Galvanized iron PVC coated flexible pipe for solar street light	Rm	150
2911	Minor Civil Works for solar lights	Nos.	600
2912	Transportation , installation , Testing and commissioning of solar street lights	Nos.	3000.00
2913	DC Fans 12 V (15-20 W) ON OFF Switches	Nos.	7,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2914	USB DC Mobile Phone Charger	Nos.	700
2915	Door frame, moulded steel 14" size	R.ft.	450
2916	PVC Flexible Pipe 1"	R.ft.	30
2917	PVC Flexible Pipe 1.25"	R.ft.	40
2918	PVC Flexible Pipe with GI wire 1"	R.ft.	70
2919	PVC Flexible Pipe with GI wire 1.25"	R.ft.	90
2920	DC LED Light Bulb 12V-5w	Nos.	600
2921	GI Pole	Kg	135
2922	Plastic Electric exhaust fan 8"	No.	2,000
2923	Plastic Electric exhaust fan 6"	No.	1,800
2924	Plastic Electric exhaust fan 18"	No.	4,000
2925	Full DC Invertor 1 ton	No.	57,000
2926	Full DC Invertor 1.5 ton	No.	70,000
2927	Full DC Invertor 2 ton	No.	155,000
2928	Full DC Invertor 2.5 ton	No.	175,000
2929	Full DC Invertor 3 ton	No.	250,000
2930	Full DC Invertor 4 ton	No.	350,000
2931	Full DC Invertor 5 ton	No.	450,000
2932	MUELLER STREAMLINE COPPER TUBE TYPE K MADE IN USA		
2933	ACR/MED (009 NOM 1/4) OD 3/8 x 20FT	Rft	132.83
2934	ACR/MED (013 NOM 3/8) OD 1/2 x 20FT	Rft	240.98
2935	ACR/MED (016 NOM 1/2) OD 5/8 x 20FT	Rft	300.83
2936	ACR/MED (019 NOM 5/8) OD 3/4 x 20FT	Rft	365.40
2937	ACR/MED (022 NOM 3/4) OD 7/8 x 20FT	Rft	560.18
2938	ACR/MED (029 NOM 1) OD 1-1/8 x 20FT	Rft	733.43
2939	ACR/MED (035 NOM 1-1/4) OD 1-3/8 x 20FT	Rft	909.30
2940	ACR/MED (041 NOM 1-1/2) OD 1-5/8 x 20FT	Rft	1189.13
2941	ACR/MED (050 NOM 2) OD 2-1/8 x 20FT	Rft	1890.00
2942	MUELLER STREAMLINE COPPER TUBE TYPE L MADE IN USA		
2943	ACR/MED (009) OD 3/8 x 20 FT	Rft	113.93
2944	ACR/MED (013) OD 1/2 x 20 FT	Rft	175.35
2945	ACR/MED (016) OD 5/8 x 20 FT	Rft	246.23
2946	ACR/MED (019) OD 3/4 x 20 FT	Rft	312.38
2947	ACR/MED (022) OD 7/8 x 20 FT	Rft	393.23
2948	ACR/MED (028) OD 1-1/8 x 20 FT	Rft	567.00
2949	ACR/MED (035) OD 1-3/8 x 20 FT	Rft	763.35
2950	ACR/MED (042) OD 1-5/8 x 20 FT	Rft	984.38
2951	ACR/MED (054) OD 2-1/8 x 20 FT	Rft	1510.95
2952	DC Circuit Breakers		
2953	Single Pole Circuit Breaker 10 Ampere	Nos.	1,300

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2954	Single Pole Circuit Breaker 16 Ampere	Nos.	1,300
2955	Single Pole Circuit Breaker 20 Ampere	Nos.	1,300
2956	Single Pole Circuit Breaker 25 Ampere	Nos.	1,400
2957	Single Pole Circuit Breaker 32 Ampere	Nos.	1,400
2958	Single Pole Circuit Breaker 40 Ampere	Nos.	1,500
2959	Single Pole Circuit Breaker 50 Ampere	Nos.	1,800
2960	Single Pole Circuit Breaker 63 Ampere	Nos.	1,800
2961	2 Pole Circuit Breaker 10 Ampere	Nos.	2,100
2962	2 Pole Circuit Breaker 16 Ampere	Nos.	2,100
2963	2 Pole Circuit Breaker 20 Ampere	Nos.	2,100
2964	2 Pole Circuit Breaker 25 Ampere	Nos.	3,000
2965	2 Pole Circuit Breaker 32 Ampere	Nos.	3,000
2966	2 Pole Circuit Breaker 40 Ampere	Nos.	3,600
2967	2 Pole Circuit Breaker 50 Ampere	Nos.	3,600
2968	2 Pole Circuit Breaker 63 Ampere	Nos.	3,700
2969	3 Pole Circuit Breaker 10 Ampere	Nos.	3,400
2970	3 Pole Circuit Breaker 16 Ampere	Nos.	3,400
2971	3 Pole Circuit Breaker 20 Ampere	Nos.	3,400
2972	3 Pole Circuit Breaker 25 Ampere	Nos.	3,400
2973	3 Pole Circuit Breaker 32 Ampere	Nos.	3,400
2974	3 Pole Circuit Breaker 40 Ampere	Nos.	3,400
2975	3 Pole Circuit Breaker 50 Ampere	Nos.	3,400
2976	3 Pole Circuit Breaker 63 Ampere	Nos.	3,400
2977	4 Pole Circuit Breaker 10 Ampere	Nos.	6,240
2978	4 Pole Circuit Breaker 16 Ampere	Nos.	6,240
2979	4 Pole Circuit Breaker 20 Ampere	Nos.	6,240
2980	4 Pole Circuit Breaker 25 Ampere	Nos.	6,240
2981	4 Pole Circuit Breaker 32 Ampere	Nos.	7,000
2982	4 Pole Circuit Breaker 40 Ampere	Nos.	7,000
2983	4 Pole Circuit Breaker 50 Ampere	Nos.	7,000
2984	4 Pole Circuit Breaker 63 Ampere	Nos.	7,000
2985	AC Circuit Breakers		
2986	Single Pole Circuit Breaker 10 Ampere	Nos.	910
2987	Single Pole Circuit Breaker 16 Ampere	Nos.	910
2988	Single Pole Circuit Breaker 20 Ampere	Nos.	910
2989	Single Pole Circuit Breaker 25 Ampere	Nos.	980
2990	Single Pole Circuit Breaker 32 Ampere	Nos.	980
2991	Single Pole Circuit Breaker 40 Ampere	Nos.	1,050
2992	Single Pole Circuit Breaker 50 Ampere	Nos.	1,260
2993	Single Pole Circuit Breaker 63 Ampere	Nos.	1,260

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
2994	2 Pole Pole Circuit Breaker 10 Ampere	Nos.	1,470
2995	2 Pole Pole Circuit Breaker 16 Ampere	Nos.	1,470
2996	2 Pole Pole Circuit Breaker 20 Ampere	Nos.	1,470
2997	2 Pole Pole Circuit Breaker 25 Ampere	Nos.	2,100
2998	2 Pole Pole Circuit Breaker 32 Ampere	Nos.	2,100
2999	2 Pole Pole Circuit Breaker 40 Ampere	Nos.	2,520
3000	2 Pole Pole Circuit Breaker 50 Ampere	Nos.	2,520
3001	2 Pole Pole Circuit Breaker 63 Ampere	Nos.	2,590
3002	3 Pole Circuit Breaker 10 Ampere	Nos.	2,380
3003	3 Pole Circuit Breaker 16 Ampere	Nos.	2,380
3004	3 Pole Circuit Breaker 20 Ampere	Nos.	2,380
3005	3 Pole Circuit Breaker 25 Ampere	Nos.	2,380
3006	3 Pole Circuit Breaker 32 Ampere	Nos.	2,380
3007	3 Pole Circuit Breaker 40 Ampere	Nos.	2,380
3008	3 Pole Circuit Breaker 50 Ampere	Nos.	2,380
3009	3 Pole Circuit Breaker 63 Ampere	Nos.	2,380
3010	4 Pole Circuit Breaker 10 Ampere	Nos.	4,368
3011	4 Pole Circuit Breaker 16 Ampere	Nos.	4,368
3012	4 Pole Circuit Breaker 20 Ampere	Nos.	4,368
3013	4 Pole Circuit Breaker 25 Ampere	Nos.	4,368
3014	4 Pole Circuit Breaker 32 Ampere	Nos.	4,900
3015	4 Pole Circuit Breaker 40 Ampere	Nos.	4,900
3016	4 Pole Circuit Breaker 50 Ampere	Nos.	4,900
3017	4 Pole Circuit Breaker 63 Ampere	Nos.	4,900
3018	4 Pole Circuit Breaker 70-100 Ampere (70KV)	Nos.	49,000
3019	4 Pole Circuit Breaker 100-160 Ampere (70KV)	Nos.	60,000
3020	4 Pole Circuit Breaker 160-250 Ampere (70KV)	Nos.	91,000
3021	4 Pole Circuit Breaker 320-400 Ampere (70KV)	Nos.	138,000
3022	4 Pole Circuit Breaker 500-630 Ampere (70KV)	Nos.	181,000
3023	4 Pole Circuit Breaker 640-800 Ampere (70KV)	Nos.	330,000
3024	4 Pole Circuit Breaker 800-1000 Ampere (70KV)	Nos.	332,000
3025	4 Pole Circuit Breaker 1000-1250 Ampere (70KV)	Nos.	345,000
3026	2 V Cell 1000 AH, =&+1000 Cycles (for Solar System Only)	Nos.	60,000
3027	Solar Pump Controller per Watt	Watt	14
3028	Solar DC Pumps 0.5 HP	Nos.	30,000
3029	Solar DC Pumps 1 HP	Nos.	45,000
3030	Solar DC Pumps 2 HP	Nos.	60,000
3031	Solar DC Pumps 3 HP	Nos.	90,000
3032	Maintainous Free Battaries 12 V 1000 Cycles	Nos.	45,000
3033	Maintainous Free Battaries 12 V 1200 Cycles	Nos.	60,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
3034	Maintainence Free Battaries 12 V 1500 Cycles	Nos.	78,000
3035	Maintainence Free Battaries 12 V 2000 Cycles	Nos.	90,000
3036	Charge Controller for Solar System (Schneider 3KVA)	Nos.	90,000
3037	Charge Controller for Solar System (Schneider 5KVA)	Nos.	125,000
3038	Muslim Shower CR (Complete Set including Pipe)	Nos.	2,000
3039	WC Shower Colour (Complete Set including Pipe)	Nos.	1,500
3040	WC Shower CR (Without Pipe)	Nos.	1,000
3041	WC Shower Colour (Without Set Pipe)	Nos.	500
3042	Carpet (Plain Machine Made)	Sft	40
3043	Korean Fence	Sq.m	301
3044	Dhaka Fence	Sq.m	269
3045	Bitumen 40/50	Kg	70
3046	Surge Protector (40 KVA) 3 Pole	Nos.	28,000
3047	Surge Protector (40 KVA) 4 Pole	Nos.	32,000
3048	Remote Online System Monitoring Device	Nos.	250,000
3049	System Control Panel (SCP)	Nos.	75,000
3050	1.5" x 3/4 " Expansion Joint with one Component Polyurethane Fuel Resistant Sealant including 40 mm Baker rod and One coat of primer	RM	886
3051	2.0" x 1 " Expansion Joint with one Component Polyurethane Fuel Resistant Sealant including 50 mm Baker rod and One coat of primer	RM	1,312
3052	KSB Deep Well Turbine Pump Flanged Type DWT B8B / 8 Stages + 15 HP / 4P Motor	Nos.	2,500,000
3053	KSB Deep Well Turbine Pump Flanged Type DWT B8B / 10 Stages + 20 HP / 4P Motor	Nos.	2,900,000
3054	KSB Deep Well Turbine Pump Flanged Type DWT B10B / 5 Stages + 30 HP / 4P Motor	Nos.	2,500,000
3055	KSB Deep Well Turbine Pump Flanged Type DWT B10B / 5 Stages + 30 HP / 4P Motor	Nos.	2,500,000
3056	Supply of KSB Deep Well Turbine Pump Flanged Type DWT B8B / 14 Stages + 30 HP / 4P Motor	Nos.	4,700,000
3057	Supply of KSB Deep Well Turbine Pump Flanged Type DWT B8B / 14 Stages + 30 HP / 4P Motor	Nos.	4,700,000
3058	Supply of KSB Deep Well Turbine Pump Flanged Type DWT B10B / 10 Stages + 60 HP / 4P Motor	Nos.	4,800,000
3059	Supply of KSB Deep Well Turbine Pump Flanged Type DWT B10D / 7 Stages +50 HP / 4P Motor	Nos.	4,400,000
3060	KSB Deep Well Turbine Pump Flanged Type DWT B10B / 8 Stages + 40 HP / 4P Motor	Nos.	4,400,000

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
3061	Deep Well Turbine Pump Flanged Type / 14 Stages + 30 HP / 4P Motor	Nos.	4,700,000
3062	Deep Well Turbine Pump Flanged Type / 4 Stages + 60 HP / 4P Motor	Nos.	5,000,000
3063	Submersible pump with Minimum Flow rate of 40 m3/h, Head of 90 m and Setting Depth of 60 m, 9 Stages + 25HP / 2P Motor	Nos.	2,250,000
3064	Submersible pump with Minimum Flow rate of 40 m3/h, Head of 107 m and Setting Depth of 60 m, 10 Stages + 30HP / 2P Motor	Nos.	2,350,000
3065	Submersible pump with Minimum Flow rate of 85 m3/h, Head of 97 m and Setting Depth of 60 m, 6 Stages + 50 HP / 2P Motor	Nos.	3,181,320
3066	Starter Switch 10 HP	Nos.	50,000
3067	Starter Switch 15 HP	Nos.	60,000
3068	Starter Switch 20 HP	Nos.	70,000
3069	Starter Switch 25 HP	Nos.	80,000
3070	Starter Switch 30 HP	Nos.	85,000
3071	Starter Switch 40 HP	Nos.	90,000
3072	Starter Switch 60 HP	Nos.	120,000
3073	100 Gallon Water Boiler	Nos.	120,000
3074	Aluminium Louvers 50 mm in Depth and 1.3 mm thick	Sq.m	5,000
3075	Tempered Glass 12 mm	Sq.m	3,443
3076	Tempered Glass 5 mm	Sq.m	2,044
3077	Grease Trap	Nos.	1,500
3078	Grease Trap	Nos.	450
3079	SS Handle 18 "	Set	2,500
3080	3" wide Aluminium Bottom Rail	RM	750
3081	1.5 mm2 DC single Core Cable	RM	35
3082	2.5 mm2 DC single Core Cable	RM	43
3083	Graphic Paints	Sft	55
3084	Movable Structure For Solar Panels	per Watt	22
3085	Reflectors for Guard Rail	Nos.	150
3086	Three Star Rating Fan 56"	Nos.	3,850
3087	Nakka Structure (12")	Nos.	348
3088	Nakka Structure (15")	Nos.	488
3089	Nakka Structure (18")	Nos.	641
3090	Nakka Structure (20")	Nos.	795
3091	Nakka Structure (24")	Nos.	969
3092	Geotextile	Sq.m	100
3093	Wall Bracket for Split type AC units	Nos.	1,500

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
3094	Coper Pipe for Split type AC units	RM	1,000
3095	Corian (Plain)	Sq.m	6,994
3096	Corian (Textured)	Sq.m	10,222
3097	PVC wall Panelling 9" Wide and 10 ft length	RM	675
3098	Porcelain Tile glazed/matt (Prime Quality) Base Rate	Sq.m	1,600
3099	High Polymer Modified Quickset Tile Adhesive	Kg	40
3100	2 V Cell 1000 AH 600=&+ Cycles (for Solar System Only)	100 AH	50,000
3101	BATTERIES-MAINTENANCE FREE Li- ion (PO4)	100 AH	100,000
3102	BATTERIES-MAINTENANCE FREE 12 V, GEL 1000+=	100 AH	26,000
3103	BATTERIES-MAINTENANCE FREE 12 V, GEL 600+=	100 AH	20,000
3104	BATTERIES-MAINTENANCE FREE 12 V, AGM 1000+=	100 AH	75,000
3105	BATTERIES-MAINTENANCE FREE 12 V, AGM 600+=	100 AH	55,000
3106	DC LED Light Bulb 12V-10w	Nos.	1,000
3107	Street Electric Pole	Kg	130
3108	Solar Submersible Pumpset,4HP	Nos.	309,810
3109	Solar Submersible Pumpset, 5HP	Nos.	374,205
3110	Solar Submersible Pumpset, 6 HP	Nos.	411,412
3111	Solar Submersible Pumpset, 7.5HP	Nos.	472,746
3112	Solar Submersible Pumpset, 10HP	Nos.	556,688
3113	Solar Submersible Pumpset, 12.5 HP	Nos.	617,447
3114	Solar Submersible Pumpset, 15 HP	Nos.	699,280
3115	Solar Submersible Pumpset, 17.5 HP	Nos.	719,542
3116	Solar Submersible Pumpset, 20 HP	Nos.	857,368
3117	Solar Submersible Pumpset, 25 HP	Nos.	938,084
3118	Solar Submersible Pumpset, 30 HP	Nos.	1,134,478
3119	Solar Submersible Pumpset, 40 HP	Nos.	1,300,000
3120	Solar Pump Controller	Per Watt	10
3121	Clipsal Switch 1 Gang	Nos.	450
3122	Clipsal Switch 2 Gang	Nos.	500
3123	Clipsal Switch 3 Gang	Nos.	550
3124	Clipsal Switch 4 Gang	Nos.	600
3125	Clipsal Switch 5 Gang	Nos.	650
3126	Clipsal Switch 6 Gang	Nos.	700
3127	Clipsal Fan regulator	Nos.	1,250
3128	Clipsal Switch 2 way	Nos.	950
3129	Grohe European Basin Mixer (Product Code 36207001)	Nos.	47,000
3130	Grohe European Bidit Mix (Product Code 32244001)	Nos.	15,300
3131	Grohe European Bath Mix (Product Code 3282000)	Nos.	8,200
3132	Grohe European Hand Shower (Product Code 28436001)	Nos.	6,200
3133	Grohe European Basin Mix (Product Code 23338000)	Nos.	6,200

BASIC MATERIALS MARKET RATE			
Sr. No.	Description	Unit	Rate (Rs.)
3134	Grohe European Muslim Shoer (Product Code 27513)	Nos.	3,400
3135	Grohe European Tcock (Product Code 22940)	Nos.	800
3136	Grohe European Banedg Mixer (Product Code 29039000)	Nos.	11,000
3137	Grohe European Rain Shower (Product Code 27591000)	Nos.	6,000
3138	Grohe European RoD 18" (Product Code 27591000)	Nos.	44,000
3139	Grohe European Spout (Product Code 13252000)	Nos.	4,400
3140	Grohe European Basin Mix (Product Code 23328000)	Nos.	8,200

TABLE 9
CEMENT CONCRETE BLOCK MASONRY
(SOLID BLOCKS)

Vertical and Horizontal Joint 12.7 mm Thick

Block Size (mm)	Wall Thickness (mm)	No allowance for wastage is included			Wastage @ 5% for blocks, 10% for mortar is included		
		Mortar (Cu.m.)	Concrete (Cu.m.)	Blocks (Nos.)	Mortar (Cu.m.)	Concrete (Cu.m.)	Blocks (Nos.)
300 x 100 x 200	100	0.092	0.908	151	0.101	0.953	159
300 x 150 x 200	150	0.092	0.908	101	0.101	0.953	106
300 x 200 x 200	200	0.092	0.908	76	0.101	0.953	79
300 x 200 x 300	300	0.092	0.908	50	0.101	0.953	53
225 x 150 x 100	100	0.120	0.880	261	0.132	0.924	274
225 x 150 x 150	150	0.120	0.880	174	0.132	0.924	183
225 x 150 x 200	200	0.120	0.880	130	0.132	0.924	137
225 x 150 x 300	300	0.120	0.880	87	0.132	0.924	91

TABLE 10
CEMENT CONCRETE BLOCK MASONRY
(HOLLOW BLOCKS)

Vertical and Horizontal Joint 12.7 mm Thick

Block size (mm)	Wall thickness (mm)	Skin thickness of block (mm)	No allowance for wastage is included			Wastage @ 5% for blocks,10% for mortar is included		
			Mortar (Cu.m.)	Concrete (Cu.m.)	Blocks (Nos.)	Mortar (Cu.m.)	Concrete (Cu.m.)	Blocks (Nos.)
300 x 100 x 200	100	25.4	0.112	0.888	254	0.123	0.932	266
300 x 150 x 200	150	25.4	0.125	0.875	219	0.138	0.919	230
300 x 200 x 200	200	38.1	0.113	0.887	138	0.124	0.931	145
300 x 300 x 200	300	38.1	0.121	0.879	110	0.133	0.923	116
225 x 100 x 150	100	25.4	0.141	0.859	410	0.155	0.902	430
225 x 150 x 150	150	25.4	0.153	0.847	342	0.168	0.889	359
225 x 200 x 150	200	38.1	0.139	0.861	216	0.153	0.904	227
225 x 300 x 150	300	38.1	0.145	0.855	167	0.160	0.898	175

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

BRICK WORK CALCULATIONS

- Vertical and horizontal joints are taken as 3/8" (9.53mm) and brick size 9"x4.37"x2.68" (228.6mm x111.13mm x68.26mm) for rate analysis only
- The rates are worked for varied wall thickness such as 3" (76.2mm), 4.5"(114.3mm), 9" (228.6mm), 13.5" (342.9mm) and 18" (457.2mm) for one cubic meter.
- Wastage for bricks at 5% and for Mortar at 10% is considered for computing the rates
- Taking above factors in view, the number of bricks and quantity of Mortar for various thicknesses of brickwork is as below:

	Bricks (Nos.)	Mortar (Cu.M.)
a) Upto 4.5" (115mm) nominal thick brick-work		
3" thick masonry	535	0.127
4.5" thick masonry	510	0.173
	<hr/>	<hr/>
	1045	0.300
Average	523	0.15
b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork		
9" thick masonry	489	0.211
13.5" thick masonry	483	0.223
	<hr/>	<hr/>
	972	0.434
Average	486	0.217
c) Above 13.5" (345 mm) nominal thick brickwork		
18" thick masonry	480	0.228

5 Material cost with different mortar mix

a) Upto 4.5" (115mm) nominal thick brick-work

i. Mud Mortar

Bricks	523.00	No.	@	10.00	5230.00
Mortar	0.15	Cu.M.	@	91.81	13.77
Water charges				1.5%	78.66
					<hr/>
					5322.43

5322.45

ii. Cement, sand mortar

1 : 2

Bricks	523	Nos.	@	10.00	5230.00
Mortar	0.15	Cu.M.	@	8442.75	1266.41
Water charges				1.5%	97.44
					<hr/>
					6593.85

6593.85

1 : 3

Bricks	523	Nos.	@	10.00	5230.00
Mortar	0.15	Cu.M.	@	6099.30	914.90
Water charges				1.5%	92.18
					<hr/>
					6237.07

6237.05

1 : 4

Bricks	523	Nos.	@	10.00	5230.00
Mortar	0.15	Cu.M.	@	4839.30	725.90
Water charges				1.5%	89.34
					<hr/>
					6045.24

6045.25

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
1 : 5					
Bricks	523	Nos.	@	10.00	5230.00
Mortar	0.15	Cu.M.	@	4104.30	615.65
Water charges				1.5%	87.69
					<u>5933.34</u>
					5933.35
1 : 6					
Bricks	523	Nos.	@	10.00	5230.00
Mortar	0.15	Cu.M.	@	3579.30	536.90
Water charges				1.5%	86.51
					<u>5853.40</u>
					5853.40
1 : 7					
Bricks	523	Nos.	@	10.00	5230.00
Mortar	0.15	Cu.M.	@	3264.30	489.65
Water charges				1.5%	85.80
					<u>5805.45</u>
					5805.45
1 : 8					
Bricks	523	Nos.	@	10.00	5230.00
Mortar	0.15	Cu.M.	@	2949.30	442.40
Water charges				1.5%	85.08
					<u>5757.48</u>
					5757.50
b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork					
i. Mud Mortar					
Bricks	486.00	Nos.	@	10.00	4860.00
Mortar	0.22	Cu.M.	@	91.81	19.92
Water charges				1.5%	73.20
					<u>5322.43</u>
					5322.45
ii. Cement, sand mortar					
1 : 2					
Bricks	486.00	Nos.	@	10.00	4860.00
Mortar	0.217	Cu.M.	@	8442.75	1832.08
Water charges				1.5%	100.38
					<u>6792.46</u>
					6792.45
1 : 3					
Bricks	486.00	Nos.	@	10.00	4860.00
Mortar	0.217	Cu.M.	@	6099.30	1323.55
Water charges				1.5%	92.76
					<u>6276.31</u>
					6276.30
1 : 4					
Bricks	486.00	Nos.	@	10.00	4860.00
Mortar	0.217	Cu.M.	@	4839.30	1050.13
Water charges				1.5%	88.65
					<u>5998.78</u>
					5998.80
1 : 5					
Bricks	486.00	Nos.	@	10.00	4860.00
Mortar	0.217	Cu.M.	@	4104.30	890.63
Water charges				1.5%	86.27
					<u>5836.90</u>
					5836.90
1 : 6					
Bricks	486.00	Nos.	@	10.00	4860.00
Mortar	0.217	Cu.M.	@	3579.30	776.71
Water charges				1.5%	84.56
					<u>5721.26</u>
					5721.25
1 : 7					
Bricks	486.00	Nos.	@	10.00	4860.00
Mortar	0.217	Cu.M.	@	3264.30	708.35
Water charges				1.5%	83.52
					<u>5651.87</u>
					5651.85

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
	1 : 8					
	Bricks	486.00	Nos.	@ 10.00	4860.00	
	Mortar	0.217	Cu.M.	@ 2949.30	640.00	
	Water charges			1.5%	82.50	
					<u>5582.50</u>	5582.50
	c) Above 13.5" (345 mm) nominal thick brickwork					
	i. Mud mortar					
	Bricks	480.00	Nos.	@ 10.00	4800.00	
	Mortar	0.228	Cu.M.	@ 91.81	20.93	
	Water charges			1.5%	72.32	
					<u>5322.43</u>	5322.45
	ii. Cement, sand mortar					
	1 : 2					
	Bricks	480.00	Nos.	@ 10.00	4800.00	
	Mortar	0.228	Cu.M.	@ 8442.75	1924.95	
	Water charges			1.5%	100.88	
					<u>6825.82</u>	6825.80
	1 : 3					
	Bricks	480.00	Nos.	@ 10.00	4800.00	
	Mortar	0.228	Cu.M.	@ 6099.30	1390.64	
	Water charges			1.5%	92.87	
					<u>6283.51</u>	6283.50
	1 : 4					
	Bricks	480.00	Nos.	@ 10.00	4800.00	
	Mortar	0.228	Cu.M.	@ 4839.30	1103.36	
	Water charges			1.5%	88.55	
					<u>5991.91</u>	5991.90
	1 : 5					
	Bricks	480.00	Nos.	@ 10.00	4800.00	
	Mortar	0.228	Cu.M.	@ 4104.30	935.78	
	Water charges			1.5%	86.04	
					<u>5821.82</u>	5821.80
	1 : 6					
	Bricks	480.00	Nos.	@ 10.00	4800.00	
	Mortar	0.228	Cu.M.	@ 3579.30	816.08	
	Water charges			1.5%	84.24	
					<u>5700.32</u>	5700.30
	1 : 7					
	Bricks	480.00	Nos.	@ 10.00	4800.00	
	Mortar	0.228	Cu.M.	@ 3264.30	744.26	
	Water charges			1.5%	83.16	
					<u>5627.42</u>	5627.40
	1 : 8					
	Bricks	480.00	Nos.	@ 10.00	4800.00	
	Mortar	0.228	Cu.M.	@ 2949.30	672.44	
	Water charges			1.5%	82.08	
					<u>5554.52</u>	5554.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

6 LABOUR COST

Burnt bricks

i. Foundation, basement and plinth

a) Upto 4.5" (115mm) nominal thick brick-work

Mason	9.75	Hrs	@	125.00	1218.75
Labourer	11.50	Hrs	@	87.50	1006.25
Bahishti	1.75	Hrs	@	87.50	153.13
Mistri	0.35	Hrs	@	110.00	38.50
					2416.63

2416.65

b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork

Mason	7.75	Hrs	@	125.00	968.75
Labourer	9.75	Hrs	@	87.50	853.13
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.35	Hrs	@	110.00	38.50
					1991.63

1991.65

c) Above 13.5" (345 mm) nominal thick brickwork

Mason	5.50	Hrs	@	125.00	687.50
Labourer	8.50	Hrs	@	87.50	743.75
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.35	Hrs	@	110.00	38.50
					1601.00

1601.00

ii) Arches in Foundation, Basement and Plinth

a) Upto 4.5" (115mm) nominal thick brick-work

Mason	17.00	Hrs	@	125.00	2125.00
Labourer	17.00	Hrs	@	87.50	1487.50
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00
					3798.75

3798.75

b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork

Mason	14.50	Hrs	@	125.00	1812.50
Labourer	14.50	Hrs	@	87.50	1268.75
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00
					3267.50

3267.50

c) Above 13.5" (345 mm) nominal thick brickwork

Mason	12.00	Hrs	@	125.00	1500.00
Labourer	12.00	Hrs	@	87.50	1050.00
Bahishti	9.06	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00
					2736.25

2736.25

d) Upto 9" (230 mm) nominal thick tile masonry

Mason	24.00	Hrs	@	125.00	3000.00
Labourer	24.00	Hrs	@	87.50	2100.00
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00
					5286.25

5286.25

e) Above 9" (230 mm) nominal thick tile masonry

Mason	22.00	Hrs	@	125.00	2750.00
Labourer	22.00	Hrs	@	87.50	1925.00
Bahishti	1.50	Hrs	@	87.50	131.25
Mistri	0.50	Hrs	@	110.00	55.00
					4861.25

4861.25

Unit	Description	Component Cost		Unit Rate	
		(Rs)	(Rs)	(Rs)	(Rs)
iii) Walls in superstructure					
a) Upto 4.5" (115mm) nominal thick brick-work					
Mason	11.00	Hrs	@	125.00	1375.00
Labourer	16.00	Hrs	@	87.50	1400.00
Bahishti	1.25	Hrs	@	87.50	109.38
Mistri	0.35	Hrs	@	110.00	38.50
					<u>2922.88</u>
					2922.90
b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork					
Mason	9.00	Hrs	@	125.00	1125.00
Labourer	12.75	Hrs	@	87.50	1115.63
Bahishti	1.25	Hrs	@	87.50	109.38
Mistri	0.35	Hrs	@	110.00	38.50
					<u>2388.50</u>
					2388.50
c) Above 13.5" (345 mm) nominal thick brickwork					
Mason	7.00	Hrs	@	125.00	875.00
Labourer	11.00	Hrs	@	87.50	962.50
Bahishti	1.25	Hrs	@	87.50	109.38
Mistri	0.35	Hrs	@	110.00	38.50
					<u>1985.38</u>
					1985.40
iv) Pillars and Columns					
a) Rectangular or Square shape					
Mason	14.00	Hrs	@	125.00	1750.00
Labourer	18.00	Hrs	@	87.50	1575.00
Bahishti	2.00	Hrs	@	87.50	175.00
Mistri	0.50	Hrs	@	110.00	55.00
					<u>3555.00</u>
					3555.00
b) Round shape					
Mason	15.50	Hrs	@	125.00	1937.50
Labourer	19.50	Hrs	@	87.50	1706.25
Bahishti	2.00	Hrs	@	87.50	175.00
Mistri	0.50	Hrs	@	110.00	55.00
					<u>3873.75</u>
					3873.75
v) Steps					
Mason	8.50	hrs.	@	125.00	1062.50
Cooly	12.75	hrs.	@	87.50	1115.63
Bahishty	1.75	hrs.	@	87.50	153.13
Mistry	0.50	hrs.	@	110.00	55.00
					<u>2386.25</u>
					2386.25
vi) Arches in superstructure					
a) Upto 4.5" (115mm) nominal thick brick-work					
Mason	18.00	hrs.	@	125.00	2250.00
Cooly	18.00	hrs.	@	87.50	1575.00
Bahishty	1.50	hrs.	@	87.50	131.25
Mistry	0.50	hrs.	@	110.00	55.00
					<u>4011.25</u>
					4011.25
b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork					
Mason	15.50	hrs.	@	125.00	1937.50
Cooly	15.50	hrs.	@	87.50	1356.25
Bahishty	1.50	hrs.	@	87.50	131.25
Mistry	0.50	hrs.	@	110.00	55.00
					<u>3480.00</u>
					3480.00
c) Above 13.5" (345 mm) nominal thick brickwork					
Mason	13.00	hrs.	@	125.00	1625.00
Cooly	13.00	hrs.	@	87.50	1137.50
Bahishty	1.50	hrs.	@	87.50	131.25
Mistry	0.50	hrs.	@	110.00	55.00
					<u>2948.75</u>
					2948.75

Unit	Description	Component Cost		Unit Rate
		(Rs)	(Rs)	(Rs)
d) Upto 9" (230 mm) nominal thick tile masonry				
Mason	25.00	hrs.	@ 125.00	3125.00
Cooly	25.00	hrs.	@ 87.50	2187.50
Bahishty	1.50	hrs.	@ 87.50	131.25
Mistry	0.50	hrs.	@ 110.00	55.00
				5498.75
				5498.75
e) Above 9" (230 mm) nominal thick tile masonry				
Mason	23.00	hrs.	@ 125.00	2875.00
Cooly	23.00	hrs.	@ 87.50	2012.50
Bahishty	1.50	hrs.	@ 87.50	131.25
Mistry	0.50	hrs.	@ 110.00	55.00
				5073.75
				5073.75
vii) Honey comb work				
a) Upto 4.5" (115mm) nominal thick brick-work				
Mason	5.50	hrs.	@ 125.00	687.50
Cooly	5.50	hrs.	@ 87.50	481.25
Bahishty	1.00	hrs.	@ 87.50	87.50
Mistry	0.25	hrs.	@ 110.00	27.50
				1283.75
				1283.75
b) Above 4.5" (115mm) nominal thick brickwork				
Mason	5.00	hrs.	@ 125.00	625.00
Cooly	6.00	hrs.	@ 87.50	525.00
Bahishty	0.75	hrs.	@ 87.50	65.63
Mistry	0.25	hrs.	@ 110.00	27.50
				1243.13
				1243.15
vii) Architrave				
a) Upto 9" (230 mm) nominal thick brick masonry				
Mason	24.00	hrs.	@ 125.00	3000.00
Cooly	24.00	hrs.	@ 87.50	2100.00
Bahishty	2.00	hrs.	@ 87.50	175.00
Mistry	1.00	hrs.	@ 110.00	110.00
				5385.00
				5385.00
b) Above 9" (230 mm) nominal thick brick masonry				
Mason	21.00	hrs.	@ 125.00	2625.00
Cooly	21.00	hrs.	@ 87.50	1837.50
Bahishty	2.00	hrs.	@ 87.50	175.00
Mistry	1.00	hrs.	@ 110.00	110.00
				4747.50
				4747.50
c) Upto 9" (230 mm) nominal thick tile masonry				
Mason	28.00	hrs.	@ 125.00	3500.00
Cooly	28.00	hrs.	@ 87.50	2450.00
Bahishty	2.00	hrs.	@ 87.50	175.00
Mistry	1.00	hrs.	@ 110.00	110.00
				6235.00
				6235.00
d) Above 9" (230 mm) nominal thick tile masonry				
Mason	25.00	hrs.	@ 125.00	3125.00
Cooly	25.00	hrs.	@ 87.50	2187.50
Bahishty	2.00	hrs.	@ 87.50	175.00
Mistry	1.00	hrs.	@ 110.00	110.00
				5597.50
				5597.50

Unit	Description					Component Cost	Unit Rate
						(Rs)	(Rs)
ix) Coping							
a) Upto 9" (230 mm) nominal thick brick masonry							
	Mason	19.00	hrs.	@	125.00	2375.00	
	Cooly	19.00	hrs.	@	87.50	1662.50	
	Bahishty	2.00	hrs.	@	87.50	175.00	
	Mistry	0.75	hrs.	@	110.00	82.50	
						<u>4295.00</u>	4295.00
b) Above 9" (230 mm) nominal thick brick masonry							
	Mason	16.00	hrs.	@	125.00	2000.00	
	Cooly	16.00	hrs.	@	87.50	1400.00	
	Bahishty	2.00	hrs.	@	87.50	175.00	
	Mistry	0.75	hrs.	@	110.00	82.50	
						<u>3657.50</u>	3657.50
c) Upto 9" (230 mm) nominal thick tile masonry							
	Mason	25.00	hrs.	@	125.00	3125.00	
	Cooly	25.00	hrs.	@	87.50	2187.50	
	Bahishty	2.00	hrs.	@	87.50	175.00	
	Mistry	0.75	hrs.	@	110.00	82.50	
						<u>5570.00</u>	5570.00
d) Above 9" (230 mm) nominal thick tile masonry							
	Mason	21.00	hrs.	@	125.00	2625.00	
	Cooly	21.00	hrs.	@	87.50	1837.50	
	Bahishty	2.00	hrs.	@	87.50	175.00	
	Mistry	0.75	hrs.	@	110.00	82.50	
						<u>4720.00</u>	4720.00
x) Cornice							
a) Upto 9" (230 mm) nominal thick brick masonry							
	Mason	15.50	hrs.	@	125.00	1937.50	
	Cooly	15.50	hrs.	@	87.50	1356.25	
	Bahishty	2.00	hrs.	@	87.50	175.00	
	Mistry	0.75	hrs.	@	110.00	82.50	
						<u>3551.25</u>	3551.25
b) Above 9" (230 mm) nominal thick brick masonry							
	Mason	13.00	hrs.	@	125.00	1625.00	
	Cooly	13.00	hrs.	@	87.50	1137.50	
	Bahishty	2.00	hrs.	@	87.50	175.00	
	Mistry	0.75	hrs.	@	110.00	82.50	
						<u>3020.00</u>	3020.00
c) Upto 9" (230 mm) nominal thick tile masonry							
	Mason	19.75	hrs.	@	125.00	2468.75	
	Cooly	19.75	hrs.	@	87.50	1728.13	
	Bahishty	2.00	hrs.	@	87.50	175.00	
	Mistry	0.75	hrs.	@	110.00	82.50	
						<u>4454.38</u>	4454.40
d) Above 9" (230 mm) nominal thick tile masonry							
	Mason	16.75	hrs.	@	125.00	2093.75	
	Cooly	16.75	hrs.	@	87.50	1465.63	
	Bahishty	2.00	hrs.	@	87.50	175.00	
	Mistry	0.75	hrs.	@	110.00	82.50	
						<u>3816.88</u>	3816.90

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

xi) Steining walls

a) Upto 13.5" (345 mm) nominal thick and upto 10 ft (3 m.) depth

Mason	7.75	hrs.	@	125.00	968.75	
Cooly	11.00	hrs.	@	87.50	962.50	
Bahishty	1.25	hrs.	@	87.50	109.38	
Mistry	0.35	hrs.	@	110.00	38.50	
					<u>2079.13</u>	2079.15

b) Above 13.5" (345 mm) nominal thick and upto 10 ft (3 m.) depth

Mason	5.50	hrs.	@	125.00	687.50	
Cooly	8.50	hrs.	@	87.50	743.75	
Bahishty	1.25	hrs.	@	87.50	109.38	
Mistry	0.35	hrs.	@	110.00	38.50	
					<u>1579.13</u>	1579.15

xii) Cavity walls

a) 2" to 3" (50mm to 75mm) nominal cavity and 4.5" (115mm) width on either side

Mason	9.00	hrs.	@	125.00	1125.00	
Cooly	14.00	hrs.	@	87.50	1225.00	
Bahishty	1.25	hrs.	@	87.50	109.38	
Mistry	0.50	hrs.	@	110.00	55.00	
					<u>2514.38</u>	2514.40

b) 2" to 3" (50mm to 75mm) nominal cavity and 4.5" (115mm) width on one side and 9" (230mm) width on the other side

Mason	9.50	hrs.	@	125.00	1187.50	
Cooly	15.00	hrs.	@	87.50	1312.50	
Bahishty	1.25	hrs.	@	87.50	109.38	
Mistry	0.50	hrs.	@	110.00	55.00	
					<u>2664.38</u>	2664.40

c) 2" to 3" (50mm to 75mm) nominal cavity and 9" (230 mm) width on either side

Mason	8.25	hrs.	@	125.00	1031.25	
Cooly	13.50	hrs.	@	87.50	1181.25	
Bahishty	1.25	hrs.	@	87.50	109.38	
Mistry	0.50	hrs.	@	110.00	55.00	
					<u>2376.88</u>	2376.90

d) 2" to 3" (50mm to 75mm) nominal cavity and 4.5" (115mm) width on one side and 13.5" (345mm) width on the other side

Mason	9.25	hrs.	@	125.00	1156.25	
Cooly	14.50	hrs.	@	87.50	1268.75	
Bahishty	1.25	hrs.	@	87.50	109.38	
Mistry	0.50	hrs.	@	110.00	55.00	
					<u>2589.38</u>	2589.40

xiii) Hollow brick work in superstructure

a) Upto 4.5" (115mm) nominal thick brick-work

Mason	14.00	hrs.	@	125.00	1750.00	
Cooly	18.00	hrs.	@	87.50	1575.00	
Bahishty	1.50	hrs.	@	87.50	131.25	
Mistry	0.35	hrs.	@	110.00	38.50	
					<u>3494.75</u>	3494.75

b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork

Mason	11.50	hrs.	@	125.00	1437.50	
Cooly	15.50	hrs.	@	87.50	1356.25	
Bahishty	1.50	hrs.	@	87.50	131.25	
Mistry	0.35	hrs.	@	110.00	38.50	
					<u>2963.50</u>	2963.50

Unit	Description				Component Cost	Unit Rate
					(Rs)	(Rs)
c) Above 13.5" (345 mm) nominal thick brickwork						
	Mason	9.00	hrs.	@	125.00	1125.00
	Cooly	13.00	hrs.	@	87.50	1137.50
	Bahishty	1.50	hrs.	@	87.50	131.25
	Mistry	0.35	hrs.	@	110.00	38.50
					2432.25	2432.25
xiv) Perforated brick-work in superstructure						
a) Upto 4.5" (115mm) nominal thick brick-work						
	Mason	11.00	hrs.	@	125.00	1375.00
	Cooly	15.00	hrs.	@	87.50	1312.50
	Bahishty	1.50	hrs.	@	87.50	131.25
	Mistry	0.35	hrs.	@	110.00	38.50
					2857.25	2857.25
b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork						
	Mason	9.50	hrs.	@	125.00	1187.50
	Cooly	13.50	hrs.	@	87.50	1181.25
	Bahishty	1.50	hrs.	@	87.50	131.25
	Mistry	0.35	hrs.	@	110.00	38.50
					2538.50	2538.50
c) Above 13.5" (345 mm) nominal thick brickwork						
	Mason	8.00	hrs.	@	125.00	1000.00
	Cooly	12.00	hrs.	@	87.50	1050.00
	Bahishty	1.50	hrs.	@	87.50	131.25
	Mistry	0.35	hrs.	@	110.00	38.50
					2219.75	2219.75
xv) Fire brick masonry						
a) 4.5" (115mm) nominal thick fire brick lining in walls of fire places						
	Mason	17.00	hrs.	@	125.00	2125.00
	Cooly	17.00	hrs.	@	87.50	1487.50
	Bahishty	1.50	hrs.	@	87.50	131.25
	Mistry	0.35	hrs.	@	110.00	38.50
					3782.25	3782.25
b) 9" (230mm) nominal thick fire brick lining in walls of fire places						
	Mason	14.50	hrs.	@	125.00	1812.50
	Cooly	14.50	hrs.	@	87.50	1268.75
	Bahishty	1.50	hrs.	@	87.50	131.25
	Mistry	0.35	hrs.	@	110.00	38.50
					3251.00	3251.00
c) 4.5" (115 mm) nominal thick fire brick lining in arches for fire places						
	Mason	18.00	hrs.	@	125.00	2250.00
	Cooly	21.00	hrs.	@	87.50	1837.50
	Bahishty	1.50	hrs.	@	87.50	131.25
	Mistry	0.50	hrs.	@	110.00	55.00
					4273.75	4273.75
d) 9" (230 mm) nominal thick fire brick lining in arches for fire places						
	Mason	15.50	hrs.	@	125.00	1937.50
	Cooly	18.50	hrs.	@	87.50	1618.75
	Bahishty	1.50	hrs.	@	87.50	131.25
	Mistry	0.50	hrs.	@	110.00	55.00
					3742.50	3742.50

Unit	Description	Component	Unit
		Cost	Rate
		(Rs)	(Rs)

xvi) Reinforced brick work

a) Lintel

Mason	10.00	hrs.	@	125.00	1250.00
Cooly	20.00	hrs.	@	87.50	1750.00
Bahishty	2.00	hrs.	@	87.50	175.00
Mistry	1.00	hrs.	@	110.00	110.00

3285.00

3285.00

b) R.B. slab upto 4.5" (115 mm) nominal thick including 1.5" (38mm) thick RCC ribs and 1.5" (38 mm) thick cover on top

Mason	14.00	hrs.	@	125.00	1750.00
Cooly	28.00	hrs.	@	87.50	2450.00
Bahishty	2.00	hrs.	@	87.50	175.00
Mistry	1.00	hrs.	@	110.00	110.00

4485.00

4485.00

c) R.B. slab above 4.5" (115 mm) nominal thick including 1.5" (38mm) thick RCC ribs and 1.5" (38 mm) thick cover on top

Mason	12.00	hrs.	@	125.00	1500.00
Cooly	22.00	hrs.	@	87.50	1925.00
Bahishty	2.00	hrs.	@	87.50	175.00
Mistry	1.00	hrs.	@	110.00	110.00

3710.00

3710.00

d) R.B. slab above 6" (150 mm) nominal thick including 2" (50mm) thick RCC ribs 1.5" (38mm) thick cover on top & 4 brick panel (230mm x 230mm x 150mm) laid in cement sand mortar 1:3.

Mason	10.00	hrs.	@	125.00	1250.00
Cooly	18.00	hrs.	@	87.50	1575.00
Bahishty	2.00	hrs.	@	87.50	175.00
Mistry	1.00	hrs.	@	110.00	110.00

3110.00

3110.00

e) Upto 3" (75 mm) nominal thick cantilever slab and sun shade etc.

Mason	13.00	hrs.	@	125.00	1625.00
Cooly	24.00	hrs.	@	87.50	2100.00
Bahishty	2.00	hrs.	@	87.50	175.00
Mistry	1.00	hrs.	@	110.00	110.00

4010.00

4010.00

f) Above 3" (75 mm) and upto 4.5" (115 mm) nominal thick cantilever slab and sun shade etc.

Mason	11.00	hrs.	@	125.00	1375.00
Cooly	20.00	hrs.	@	87.50	1750.00
Bahishty	2.00	hrs.	@	87.50	175.00
Mistry	1.00	hrs.	@	110.00	110.00

3410.00

3410.00

g) Stairs

Mason	15.50	hrs.	@	125.00	1937.50
Cooly	28.00	hrs.	@	87.50	2450.00
Bahishty	2.00	hrs.	@	87.50	175.00
Mistry	1.00	hrs.	@	110.00	110.00

4672.50

4672.50

Unit	Description	Component Cost	Unit Rate
		(Rs)	(Rs)

SUNDRIED CLAY BRICKS

i) Foundation, basement and plinth

a) Upto 4.5" (115mm) nominal thick brick-work

Mason	9.75	Hrs	@	125.00	1218.75	
Labourer	11.50	Hrs	@	87.50	1006.25	
					<u>2225.00</u>	2225.00

b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork

Mason	7.75	hrs.	@	125.00	968.75	
Labourer	9.75	hrs.	@	87.50	853.13	
					<u>1821.88</u>	1821.90

c) Above 13.5" (345 mm) nominal thick brickwork

Mason	5.50	hrs.	@	125.00	687.50	
Labourer	8.50	hrs.	@	87.50	743.75	
					<u>1431.25</u>	1431.25

ii) Walls in superstructure

a) Upto 4.5" (115mm) nominal thick brick-work

Mason	11.00	hrs.	@	125.00	1375.00	
Labourer	16.00	hrs.	@	87.50	1400.00	
					<u>2775.00</u>	2775.00

b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork

Mason	9.00	hrs.	@	125.00	1125.00	
Labourer	12.75	hrs.	@	87.50	1115.63	
					<u>2240.63</u>	2240.65

c) Above 13.5" (345 mm) nominal thick brickwork

Mason	7.00	hrs.	@	125.00	875.00	
Labourer	11.00	hrs.	@	87.50	962.50	
					<u>1837.50</u>	1837.50

8 Scaffolding

a) Upto 4.5" (115mm) nominal thick brick-work

L.S.	10.00	10.00
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b) Above 4.5" upto 13.5" (115mm upto 345mm) nominal thick brickwork

L.S.	8.00	8.00
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c) Above 13.5" (345 mm) nominal thick brickwork

L.S.	5.00	5.00
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TABLE - 1

BRICK / MORTAR PER 100 CUBIC FT. MASONRY

Brick size 9" x 4-3/8" x 2-11/16"

(No allowance is made for wastage)

Nominal wall thickness	HORIZONTAL MORTAR JOINT THICKNESS					
	1/4 inches		3/8 inches		1/2 inches	
	Bricks	Mortar	Bricks	Mortar	Bricks	Mortar
	Nos.	Cu.ft.	Nos.	Cu.ft.	Nos.	Cu.ft.
Vertical joint 1/4 " thick						
3"	1503	7.96	1463	10.38	1426	12.68
4.5"	1466	10.23	1394	14.61	1340	17.97
9"	1413	13.45	1356	16.99	1302	20.24
13.5"	1401	14.23	1343	17.73	1291	20.96
18"	1394	14.61	1337	18.09	1285	21.31
Vertical joint 3/8 " thick						
3"	1483	9.19	1444	11.58	1407	13.85
4.5"	1434	12.17	1376	15.76	1322	19.06
9"	1376	15.74	1320	19.20	1268	22.35
13.5"	1358	16.83	1303	20.24	1251	23.35
18"	1349	17.37	1294	20.75	1243	23.85
Vertical joint 1/2 " thick						
3"	1463	10.38	1425	12.74	1388	14.98
4.5"	1415	13.32	1358	16.87	1304	20.12
9"	1340	17.89	1286	21.25	1236	24.35
13.5"	1318	19.29	1264	22.58	1215	25.64
18"	1307	19.96	1253	23.23	1205	26.30

TABLE - 1(A)

BRICK / MORTAR PER CUBIC METER MASONRY

Brick size 9" x 4-3/8" x 2-11/16"

No allowance is made for wastage

Nominal wall thickness	HORIZONTAL MORTAR JOINT THICKNESS					
	1/4 inches		3/8 inches		1/2 inches	
	Bricks	Mortar	Bricks	Mortar	Bricks	Mortar
	Nos.	Cu.ft.	Nos.	Cu.ft.	Nos.	Cu.ft.
Vertical joint 1/4 " thick						
3"	531	0.08	517	0.10	504	0.13
4.5"	518	0.10	492	0.15	473	0.18
9"	499	0.14	479	0.17	460	0.20
13.5"	495	0.14	474	0.18	456	0.21
18"	492	0.15	472	0.18	454	0.21
Vertical joint 3/8 " thick						
3"	524	0.09	510	0.12	597	0.14
4.5"	507	0.12	486	0.16	467	0.19
9"	486	0.16	466	0.19	448	0.22
13.5"	480	0.17	460	0.20	442	0.23
18"	476	0.17	457	0.21	439	0.24
Vertical joint 1/2 " thick						
3"	517	0.10	503	0.13	490	0.15
4.5"	500	0.13	480	0.17	461	0.20
9"	473	0.18	454	0.21	437	0.24
13.5"	466	0.19	446	0.23	429	0.26
18"	462	0.20	443	0.23	426	0.26

TABLE - 2

BRICK / MORTAR PER 100 CUBIC FT. MASONRY

Brick size 9" x 4-3/8" x 2-11/16"

(Allowance for wastage included Bricks 5% & Mortar 10%)

Nominal wall thickness	HORIZONTAL MORTAR JOINT THICKNESS					
	1/4 inches		3/8 inches		1/2 inches	
	Bricks	Mortar	Bricks	Mortar	Bricks	Mortar
	Nos.	Cu.Ft.	Nos.	Cu.Ft.	Nos.	Cu.Ft.
Vertical joint 1/4 " thick						
3"	1578	8.76	1536	11.42	1497	13.95
4.5"	1539	11.25	1464	16.07	1407	19.77
9"	1484	14.80	1424	18.69	1367	22.26
13.5"	1471	15.65	1410	19.50	1356	23.06
18"	1464	16.07	1404	19.90	1349	23.44
Vertical joint 3/8 " thick						
3"	1557	10.11	1516	12.74	1477	15.24
4.5"	1506	13.39	1445	17.34	1388	20.97
9"	1445	17.31	1386	21.12	1331	24.59
13.5"	1426	18.51	1368	22.26	1314	25.69
18"	1416	19.11	1359	22.83	1305	26.24
Vertical joint 1/2 " thick						
3"	1536	11.42	1496	14.01	1457	16.48
4.5"	1486	14.65	1426	18.56	1369	22.13
9"	1407	19.68	1350	23.38	1298	26.79
13.5"	1384	21.22	1327	24.84	1276	28.20
18"	1372	21.96	1316	25.55	1265	28.93

TABLE - 2 (A)

BRICK / MORTAR PER CUBIC METER MASONRY

Brick size 9" x 4-3/8" x 2-11/16"

Allowance for wastage included Bricks 5% & Mortar 10%

Nominal wall thickness	HORIZONTAL MORTAR JOINT THICKNESS					
	1/4 inches		3/8 inches		1/2 inches	
	Bricks	Mortar	Bricks	Mortar	Bricks	Mortar
	Nos.	Cu.ft.	Nos.	Cu.ft.	Nos.	Cu.ft.
Vertical joint 1/4 " thick						
3"	558	0.088	543	0.114	529	0.140
4.5"	544	0.112	517	0.161	497	0.198
9"	524	0.149	503	0.187	483	0.222
13.5"	520	0.156	498	0.195	479	0.231
18"	517	0.161	496	0.199	477	0.234
Vertical joint 3/8 " thick						
3"	550	0.101	536	0.128	627	0.153
4.5"	532	0.134	510	0.174	490	0.210
9"	510	0.173	489	0.211	470	0.246
13.5"	504	0.185	483	0.222	464	0.257
18"	500	0.191	480	0.229	461	0.263
Vertical joint 1/2 " thick						
3"	543	0.114	528	0.140	515	0.165
4.5"	525	0.146	504	0.186	484	0.221
9"	497	0.197	477	0.234	459	0.268
13.5"	489	0.212	468	0.249	450	0.282
18"	485	0.220	465	0.255	447	0.289