

ANNEXURE-II

MATERIAL CONSUMPTION OF MAIN ITEMS

S. No	Particulars	Mortar (Cum)	Lime slacked (Cum)	Surkhi (Cum)	Cement (Bags)	Sand (Cum)	Stone (Cum)
1	<b>1 cum slacked lime = 0.67 cum Un slacked lime</b>						
2	<b>Lime Mortar</b>	<b>(For 1 cum mortar)</b>					
	(a) Lime Surhki Sand mortar (1:½:1½)	-	0.48	0.24	-	0.72	-
	(b) Lime Sand (1:2)	-	0.48	-	-	0.95	-
	(c) Lime sand (1:3)	-	0.36	-	-	1.08	-
3	<b>Cement Mortar</b>	<b>(For 1 cum mortar)</b>					
	(a) Cement Sand (1:2)	-	-	-	13.70	0.95	-
	(b) Cement Sand (1:3)	-	-	-	10.30	1.07	-
	(c) Cement Sand (1:4)	-	-	-	7.70	1.07	-
	(d) Cement Sand (1:5)	-	-	-	6.20	1.07	-
	(e) Cement Sand (1:6)	-	-	-	5.13	1.07	-
	(f) Cement Sand (1:8)	-	-	-	3.93	1.07	-
4	<b>RR stone masonry in :</b>	<b>(For 1 cum masonry)</b>					
	(a) Lime Surhki Sand mortar (1:½:1½)	0.40	0.192	0.096	-	0.288	1.10
	(b) Lime Sand mortar (1:2)	0.40	0.192	-	-	0.380	1.10
	(c) Lime Sand mortar (1:3)	0.40	0.144	-	-	0.430	1.10
	(d) Cement Sand mortar (1:3)	0.40	-	-	4.12	0.428	1.10
	(e) Cement Sand mortar (1:4)	0.40	-	-	3.08	0.428	1.10
	(f) Cement Sand mortar (1:5)	0.40	-	-	2.48	0.428	1.10
	(g) Cement Sand mortar (1:6)	0.40	-	-	2.05	0.428	1.10

S. No	Particulars	Mortar (Cum)	Lime slacked (Cum)	Surkhi (Cum)	Cement (Bags)	Sand (Cum)	Stone (Cum)	
	(h) Cement Sand mortar (1:8)	0.40			1.57	0.428	1.10	
5	<b>C.R. Stone / Kharanja masonry in:</b>	<b>(For 1 cum masonry)</b>						
	(a) Lime Surhki Sand mortar (1:½:1½)	0.35	0.168	0.084	-	0.252	1.20	
	(b) Lime Sand mortar (1:2)	0.35	0.168	-	-	0.333	1.20	
	(c) Cement Sand mortar (1:3)	0.35	-	-	3.605	0.375	1.20	
	(d) Cement Sand mortar (1:4)	0.35	-	-	2.695	0.375	1.20	
	(e) Cement Sand mortar (1:5)	0.35	-	-	2.170	0.375	1.20	
	(f) Cement Sand mortar (1:6)	0.35	-	-	1.795	0.375	1.20	
	(g) Cement Sand mortar (1:8)	0.35	-	-	1.375	0.375	1.20	
6	<b>Brick masonry two bricks width or more in:</b>	<b>(For 1 cum masonry)</b>						Bricks Nos.
	(a) Lime Surhki Sand mortar (1:½:1½)	0.23	0.110	0.055	-	0.166	475	
	(b) Lime Sand mortar (1:2)	0.23	0.110	-	-	0.218	475	
	(c) Cement Sand mortar (1:3)	0.23	-	-	2.369	0.246	475	
	(d) Cement Sand mortar (1:4)	0.23	-	-	1.771	0.246	475	
	(e) Cement Sand mortar (1:5)	0.23	-	-	1.426	0.246	475	
	(f) Cement Sand mortar (1:6)	0.23	-	-	1.180	0.246	475	
	(g) Cement Sand mortar (1:8)	0.23	-	-	0.904	0.246	475	
7	Half brick masonry in:	<b>(For 1 Sqm masonry)</b>						
	(a) Cement Sand mortar (1:3)	0.02	-	-	0.206	0.201	55	
	(b) Cement Sand mortar (1:4)	0.02	-	-	0.154	0.201	55	
8	Brick masonry on edge in:	<b>(For 1 Sqm masonry)</b>						

S. No	Particulars	Mortar (Cum)	Lime slacked (Cum)	Surkhi (Cum)	Cement (Bags)	Sand (Cum)	Stone (Cum)
	(a) Cement Sand mortar (1:3)	0.01	-	-	0.103	0.011	37
	(b) Cement Sand mortar (1:4)	0.01	-	-	0.077	0.011	37
9	<b>R.R. Stone masonry in</b>	<b>(For 1 cum masonry)</b>				Stone (Cum)	
	Mud mortar	0.40	-	-	0.48 (mud)	-	1.10
10	<b>Dry stone masonry</b>	<b>(For 1 cum masonry)</b>					
	Masonry	-	-	-	-	-	1.10
11	<b>Lime concrete</b>	<b>(For 1 cum concrete)</b>					Agg. (cum)
	(a) (1:½:1½)	0.40	0.192	0.096	-	0.288	1.00
	(b) (1:2)	0.40	0.192	-	-	0.380	1.00
	(c) (1:3)	0.40	0.144	-	-	0.430	1.00
12	<b>Cement concrete</b>	<b>(For 1 cum concrete)</b>					
	(a) (1:1:2)	-	-	-	11.20	0.40	0.80
	(b) (1:1½:3)	-	-	-	8.60	0.43	0.85
	(c) (1:2:4)	-	-	-	6.40	0.45	0.90
	(d) (1:3:6)	-	-	-	4.50	0.47	0.94
	(e) (1:4:8)	-	-	-	3.40	0.47	0.94
	(f) (1:5:10)	-	-	-	2.80	0.47	0.94
13	<b>Precast Tile lining (laying &amp; fixing only)</b>	<b>(For 1 Sqm lining)</b>					
	4 cm thick	0.243	-	-	0.156	0.026	-

S.No.	Particulars	Tile Brick (Nos)	Cement (Bags)	Bazari (cum)	Tibba sand (cum)	Sand in place of bazari & tibba sand (cum)
14	<b>Clay tile / Brick Lining</b>	<b>(For 10 sqm Lining)</b>				
	(a) Single brick lining	366	3.77	0.116	0.347	0.463
	(b) Single tile Lining	215	3.40	0.102	0.305	0.407
	(c) Double tile lining	430	3.66	0.110	0.328	0.438

S.No	Particulars	Mortar (Cum)	Lime slacked (Cum)	Surkhi (Cum)	Cement (Bags)	Sand (Cum)	Stone (Cum)
<b>PLASTER</b>							
15	Lime plaster 25 mm thick in mortar ratio : (For 1 sqm Plaster)						
	(a) (1:½:1½)	0.030	0.0144	0.0072	-	0.0216	-
	(b) (1:2)	0.030	0.0144	-	-	.0285	-
	(c) (1:3)	0.030	0.0108	-	-	0.0324	-
16	Lime plaster 20 mm thick in mortar ratio : (For 1 sqm Plaster)						
	(a) (1:½:1½)	0.021	0.0100	0.0050	-	0.0151	-
	(b) (1:2)	0.021	0.0100	-	-	0.0199	-
	(c) (1:3)	0.021	0.0076	-	-	0.0227	-
17	Lime plaster 12 mm thick in mortar ratio : (For 1 sqm Plaster)						
	(a) (1:½:1½)	0.015	0.0072	0.0036	-	0.0108	-
	(b) (1:2)	0.015	0.0072	-	-	0.0143	-
	(c) (1:3)	0.015	0.0054	-	-	0.0162	-
18	Cement plaster 25 mm thick in mortar ratio : (For 1 sqm Plaster)						

S.No	Particulars	Mortar (Cum)	Lime slacked (Cum)	Surkhi (Cum)	Cement (Bags)	Sand (Cum)	Stone (Cum)
	(a) (1:3)	0.030	-	-	0.309	0.032	-
	(b) (1:4)	0.030	-	-	0.231	0.032	-
	(c) (1:5)	0.030	-	-	0.186	0.032	-
	(d) (1:6)	0.030	-	-	0.154	0.032	-
19	<b>Cement plaster 20 mm thick in mortar ratio : (For 1 sqm Plaster)</b>						
	(a) (1:3)	0.021	-	-	0.216	0.023	-
	(b) (1:4)	0.021	-	-	0.162	0.023	-
	(c) (1:5)	0.021	-	-	0.130	0.023	-
	(d) (1:6)	0.021	-	-	0.110	0.023	-
20	<b>Cement plaster 12 mm thick in mortar ratio : (For 1 sqm Plaster)</b>						
	(a) (1:3)	0.015	-	-	0.154	0.016	-
	(b) (1:4)	0.015	-	-	0.116	0.016	-
	(c) (1:5)	0.015	-	-	0.093	0.016	-
	(d) (1:6)	0.015	-	-	0.077	0.016	-
21	<b>Cement plaster 6 mm thick in mortar ratio : (For 1 sqm Plaster)</b>						
	(1:3)	0.008	-	-	0.08	0.008	-
<b>POINTING</b>							
22	<b>Flush ruled pointing in Lime mortar ratio : (For 1sqm Pointing)</b>						
	(a) (1:½:1½)	0.004	0.00019	0.0009	-	0.0029	-
	(b) (1:2)	0.004	0.00019	-	-	0.0038	-
23	<b>Flush ruled pointing in Cement mortar ratio : (For 1sqm Pointing)</b>						
	(1:3)	0.004	-	-	0.0412	0.0043	-
24	<b>Raised &amp; Cut pointing in Cement mortar ratio : (For 1sqm Pointing)</b>						

S.No	Particulars	Mortar (Cum)	Lime slacked (Cum)	Surkhi (Cum)	Cement (Bags)	Sand (Cum)	Stone (Cum)
	(1:3)	0.006	-	-	0.062	0.0064	-
25	<b>Guniting in cement mortar ratio:</b>				<b>(For 1sqm Guniting)</b>		
	(1:3)	0.061	-	-	0.628	0.065	-
26	<b>37 mm thick shotcreting in cement concrete :</b>				<b>(For 1sqm Shotcreting)</b>		
	(1:1½:3)	-	-	-	0.525	0.026	0.052
27	<b>Porous concrete pipe in mix.</b>	<b>(For 1sqm)</b>					
	(1:4.5)	-	-	-	1.994	-	0.28

