



**GOVERNMENT OF ODISHA**

**SCHEDULE OF RATES**

**2022**

**WORKS DEPARTMENT**

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# CHAPTER 1

# BASIC RATES OF MATERIALS

**Chapter – 1**  
**BASIC RATE OF MATERIALS**

**1.1 FOR UN-DIVIDED DISTRICTS OF CENTRAL RDC DIVISION**

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
1	Well burnt clamp burnt bricks (25 Cm. x 12Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	3919.78	3995.37	4097.95	3833.40
2	Well burnt clamp burnt bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	3527.80	3671.42	3687.62	3687.62
3	K.B. bricks (25 Cm x 12Cm x 8Cm) having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	6146.39	5885.07	6146.39	5642.11
4	K.B. bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	5226.38	5129.19	5453.14	5463.94
5	Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2 %	1000 Nos	5010.50	4732.71	5442.62	5051.66
6	Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2 %	1000 Nos	4266.65	4578.39	4772.84	4815.02
7	Fly ash blocks of 30 Cm. x 20 Cm. x 15 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2 %	Each	15.43	16.46	16.46	16.46

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
8	Cement concrete solid Block machine mixed and Hydraulic compressed having crushing strength not less than 75kg/cm <sup>2</sup>					
a.	400mm x 200mm x 200mm size	Each	27.65	27.65	27.65	27.65
b.	400mm x 150mm x 200mm size	Each	21.72	22.71	22.71	22.71
c.	400mm x 100mm x 150mm size	Each	14.81	15.80	15.80	15.80
d.	300mm x 200mm x 150mm size	Each	16.79	15.80	16.79	16.79
e.	300mm x 150mm x 150mm size	Each	13.82	13.82	13.82	13.82
f.	300mm x 100mm x 150mm size	Each	11.85	11.85	11.85	11.85
9	Cement concrete Hollow Blocks machine mixed and Hydraulic compressed having crushing strength not less than 70kg/cm <sup>2</sup>					
a.	400mm x 200mm x 200mm size	Each	24.69	25.67	25.67	25.67
b.	400mm x 150mm x 200mm size	Each	18.76	19.75	19.75	19.75
c.	400mm x 100mm x 200mm size	Each	13.82	13.82	13.82	13.82
d.	300mm x 200mm x 150mm size	Each	13.82	13.82	13.82	13.82
e.	300mm x 150mm x 150mm size	Each	12.84	12.84	12.84	12.84
f.	300mm x 100mm x 150mm size	Each	9.87	9.87	9.87	9.87
10	K.B. bricks Khoa 4 Cm.size	1 Cum	379.02	409.26	409.26	404.94
11	Clamp burnt brick Khoa 4 cm. size.	1 Cum	326.11	329.35	357.42	357.42
12	Surki of clamp burnt bricks.	1 Cum	453.53	442.73	489.16	455.69

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
13	Surki of Kiln burnt bricks.	1 Cum	470.81	453.53	509.68	472.97
14	Screen washed gravel for concrete (12mm. to 20mm.)	1 Cum	184.26	177.91	191.89	179.18
15	Gravel or moorum	1 Cum	61.00	61.00	63.54	63.54
16	Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	1 Cum	105.86	99.63	109.60	109.60
17	River single or Bajri (12mm. to 20mm.)	1 Cum	123.26	120.72	123.26	123.26
18	Screened and washed sharp sand for mortar	1 Cum	64.81	62.27	66.08	66.08
19	Sand for filling and road blinding	1 Cum	57.18	55.91	59.73	59.73
20	Clay mortar for masonry work with admixture of sand.	1 Cum	63.54	62.27	64.81	64.81
21	Stone lime unslaked.	1 Kg.	16.27	16.27	16.27	16.27
22	Ghooting lime unslaked.	1 Kg.	22.08	20.92	22.08	22.08
23	Shell lime unslaked.	1 Kg.	19.76	18.60	19.76	19.76
24 a	Granite broken stone of size not less than 0.0025 Cum. Stacked	1 Cum.	269.53	262.68	280.96	280.96
b	Granite stone of size not less than 0.0025 Cum. picked up.	1 Cum.	235.27	228.42	245.55	245.55
25	Stone other than granite quarried, broken and staked 0.0015 Cum to 0.003 Cum	1 Cum.	241.61	237.88	251.58	251.58
26	Stone other than granite picked up and staked 0.0015 Cum. to 0.003 Cum	1 Cum.	211.72	206.74	220.44	220.44
27	Stone other than granite quarried, broken and staked above 0.003 Cum	1 Cum.	226.67	217.95	235.39	235.39



Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
28	Stone other than granite picked up, broken and staked above 0.003 Cum	1 Cum.	211.72	206.74	220.44	220.44
29	Granite Stone broken metal 63mm. size Passing through 90mm. Sieve and retained on 53 mm sieve.					
a	Crusher broken.	1 Cum.	799.57	809.53	850.63	850.63
b	Hand broken.	1 Cum.	643.89	645.13	676.27	676.27
30	Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve)					
a	Crusher broken.	1 Cum.	828.21	835.68	881.76	859.35
b	Hand broken.	1 Cum.	642.64	640.15	680.00	680.00
31	Granite Stone broken metal 40mm. size	1 Cum.				
a	Crusher broken.	1 Cum.	927.84	924.11	976.42	896.71
b	Hand broken.	1 Cum.	741.03	738.54	778.39	778.39
32	Granite Stone broken metal 26.5mm. size (Passing through 45mm sieve & retained on 22.4mm sieve)					
a	Crusher broken.	1 Cum.	977.66	991.36	1038.69	990.12
b	Hand broken.	1 Cum.	744.77	749.75	787.11	778.39
33	Granite Stone broken metal 25mm. size (Passing through 40mm sieve & retained on 20mm sieve)					
a	Crusher broken.	1 Cum.	996.34	1007.55	1054.88	1039.93
b	Hand broken.	1 Cum.	759.71	765.94	803.30	797.07

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
34	Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve)					
a	Crusher broken.	1 Cum.	1033.71	1032.46	1086.01	1064.84
b	Hand broken.	1 Cum.	792.09	768.43	834.44	834.44
35	Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve)					
a	Crusher broken.	1 Cum.	1307.70	1317.66	1386.16	1386.16
b	Hand broken.	1 Cum.	1026.23	998.83	1077.30	1077.30
36	Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve)					
a	Crusher broken.	1 Cum.	1351.29	1340.08	1417.30	1417.30
b	Hand broken.	1 Cum.	1042.42	1047.41	1102.20	1102.20
37	Granite Stone broken chips 12mm. size (Minimum 65% by Wt. Passing through 13.2mm sieve & retained on 9.50mm sieve but whole should pass through 19mm sieve)					
a	Crusher broken.	1 Cum.	1371.22	1369.97	1433.49	1433.49
b	Hand broken.	1 Cum.	1059.86	1061.11	1118.39	1118.39
38	Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve)					
a	Crusher broken.	1 Cum.	1402.35	1372.46	1448.43	1448.43
b	Hand broken.	1 Cum.	1083.52	1095.98	1149.53	1149.53

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
39	Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve)					
a	Crusher broken.	1 Cum.	1401.11	1394.88	1464.62	1464.62
b	Hand broken.	1 Cum.	1077.30	1095.98	1149.53	1149.53
(A)	Granite Stone broken chips 6.7mm size (Passing through 11.2mm sieve & retained on 2.8mm sieve)	1 Cum.	936.56	921.62	966.45	983.89
(B)	Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	1 Cum.	821.98	821.98	865.57	865.57
40	Granite stone broken chips of 4.7 mm size passing through 6.7 mm sieve (crusher broken.) and retained on 2.36 mm sieve.	1 Cum.	846.89	834.44	881.76	881.76
41	Stone other than granite broken to 5cm. size.	1 Cum.	316.34	311.36	330.04	330.04
42	Stone other than granite broken to 4 cm. size.	1 Cum.	323.81	320.08	337.51	337.51
43	Stone other than granite broken to 2 cm. size.	1 Cum.	346.23	341.25	361.17	361.17
44	Stone other than granite broken to 1cm. size.	1 Cum.	361.17	358.68	377.36	336.27
45	Stone boulder 15cm. & above size granite picked up and nullah boulders.	1 Cum.	188.06	185.57	195.53	195.53
46	Soiling stone boulder 15Cm. & above size picked up nullah boulders broken.	1 Cum.	195.53	189.31	204.25	204.25

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
47	Stone boulder 15cm. & above size other than granite or laterite picked up and nullah boulders.	1 Cum.	150.70	149.45	156.92	156.92
48	Soiling stone boulder 15Cm. & above size other than granite or laterite picked up nullah boulders broken.	1 Cum.	165.64	164.40	173.11	173.11
49	Soling stone boulders 10 Cm. size picked up other than granite.	1 Cum.	150.70	148.21	156.92	156.92
50	Hard broken soling stone other than granite (40mm. to 90mm.)	1 Cum.	241.61	237.88	251.58	251.58
51	I.R.C. Grade I (90mm-45 mm.)	1 Cum.	783.37	780.88	818.25	809.53
52	I.R.C. Grade II (63mm. to 45mm.)	1 Cum.	874.29	865.57	912.90	912.90
53	I.R.C. Grade III (53mm. to 22.4mm.)	1 Cum.	934.07	921.62	976.42	940.30
54	Laterite soling stone 23Cm. size	1 Cum.	137.14	134.45	142.51	141.17
55	Laterite Stone rough dressed	1 Cum.	759.63	769.04	816.10	766.35
56	Bamboo mat or talai.	1 Sqm.	115.00	104.79	114.00	106.00
57	Bamboo 1ST class 7Cm. to 10Cm. dia & above 6m. long.	Each	88.00	88.00	80.00	88.00
58 a	Belongi Bomboo 2.51 Cm. to 4Cm. dia & above 5m. long.	Each	42.00	42.00	34.67	42.00
b	Belongi Bomboo above 4Cm. dia & up to 7Cm. dia & above 5m. long.	Each	51.00	51.00	42.50	51.00
59	Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	1Mtr	51.87	51.87	51.87	51.87
60	Sal bullahs 150mm. to 200mm. mean dia up to 5.5m. long.	1Mtr	124.26	124.26	124.26	124.26

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
61	Sal bullahs above 200mm. & up to 250mm. mean dia & up to 2.75m. long.	1Cum.	18069.75	18069.75	18069.75	18069.75
62	Sal bullahs above 200mm. & up to 250mm. mean dia above 2.75m. long & up to 4.75m. long.	1Cum.	22474.75	22474.75	22474.75	22474.75
63	Sal bullahs above 200mm. & up to 250mm. mean dia above 4.75m. long	1Cum.	26849.00	26849.00	26849.00	26849.00
64	Sal bullahs above 250mm. & up to 380mm. mean dia & up to 2.75m. long	1Cum.	29736.50	29736.50	29736.50	29736.50
65	Sal bullahs above 250mm. & up to 380mm. mean dia & above 2.75m. long up to 4.75m. long	1Cum.	36622.50	36622.50	36622.50	36622.50
66	Sal bullahs above 250mm. & up to 380mm. mean dia & above 4.75m. long.	1Cum.	42542.67	42542.67	42542.67	42542.67
67	Non-sal bullahs 75mm. mean dia of any length.	1Mtr.	30.81	30.81	30.81	30.81
68	Non-sal bullahs 100mm. mean dia of any length.	1Mtr.	41.81	41.81	41.81	41.81
69	Non-sal bullahs 125mm. mean dia of any length.	1Mtr.	41.81	41.81	41.81	41.81
70	Non-Sal bullahs 150mm. to 200mm. mean dia of any length.	1Mtr.	67.82	67.82	67.82	67.82
71	Non-Sal bullahs above 200mm. & up to 250mm. mean dia up to 2.5m. long.	1Cum.	18070.06	18070.06	18070.06	18070.06
72	Non-Sal bullahs above 200mm. & up to 250mm. mean dia above 2.5m. long.	1Cum.	24643.33	24643.33	24643.33	24643.33

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
73	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & up to 2.75m. long.	1Cum.	53035.75	53035.75	53035.75	53035.75
74	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & above 2.75m. long.	1Cum.	71150.50	71150.50	71150.50	71150.50
75	Seasoned Sal wood beam of cross sectional area not less than 150Sq.cm. & least lateral dimension 100mm. & above 2.75m. long.	1Cum.	65533.50	65533.50	65533.50	65533.50
76	Seasoned Sal wood planks not more than 75mm. thick & not less than 200mm. width.	1Cum.	63839.00	63839.00	63839.00	63839.00
77	Seasoned Piasal wood planks for shutters.	1Cum.	74369.67	74369.67	74369.67	74369.67
78	Seasoned Teak wood planks for shutters.	1Cum.	114414.94	114414.94	114414.94	114414.94
79	Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	1Cum.	58374.79	58374.79	58374.79	58374.79
80	Non-Sal reapers.	1Cum.	13268.45	13268.45	13268.45	13268.45
81	Fire wood	1Qntl	576.60	531.70	700.00	450.00
82	1St class Raniganj or Mangalore pattern tiles.	100 Nos.	907.14	901.15	947.10	874.17
83	Ridges of Raniganj or Mangalore parttern tiles.	100 Nos.	1429.65	1410.67	1494.59	1329.74
84	Flat tiles(14Cm. x14 Cm.x 1Cm. )	1000 Nos.	289.73	267.75	302.71	271.74
85	Flat tiles (15Cm x15Cmx 1.2 Cm )	1000 Nos.	311.71	309.71	325.69	283.73
86	Flat tiles (30Cm. x 15 Cm.x 2.5 Cm. )	1000 Nos.	1221.84	1217.85	1276.79	1110.95

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
87	Flat tiles (30Cm. x 30 Cm.x 2.5 Cm. )	1000 Nos.	1426.65	1410.67	1490.59	1296.77
88	Pan tiles	1000 Nos.	305.71	299.72	318.70	277.74
89	Nuria tiles (20Cm. to 25Cm.)	1000 Nos.	638.40	627.41	667.37	580.45
90	Nuria tiles (25Cm. to 30Cm.)	1000 Nos.	753.29	749.29	786.26	684.35
91	Ridge tiles	1000 Nos.	927.12	940.11	990.06	880.17
92	Marble Tiles of minimum 16 mm thick, dunguri Variety.					
a	Up to 0.10 Sqm.	1 Sqm.	539.29	534.33	539.29	539.29
b	Above 0.10 Sqm. to 0.40 Sqm.	1 Sqm.	659.24	653.29	658.25	659.24
c	Above 0.4 Sqm. to 1.00 Sqm.	1 Sqm.	743.50	731.61	742.51	732.60
93	Kota Tiles of minimum 16 mm thick					
a	Up to 0.10 Sqm.	1 Sqm.	398.52	394.55	398.52	398.52
b	Above 0.10 Sqm.	1 Sqm.	486.75	477.83	486.75	486.75
94	Khandolites (Up to 0.06 Sqm.)	1 Sqm.	312.27	307.31	312.27	312.27
95	Granite Tiles					
a	Up to 0.10 Sqm. (10mm thick)	1 Sqm.	1162.84	1153.92	1162.84	1162.84
b	Above 0.10 Sqm					
i	Above 0.10 Sqm & up to 0.4 sqm (10mm. thick)	1 Sqm.	1319.47	1308.57	1319.47	1319.47
ii	Above 0.40 sqm. (20mm thick)	1 Sqm.	2071.90	2061.98	2071.90	1962.85
96	Kodappa Tiles of 10 mm thick					
a	Above 0.1 Sqm & Up to 0.40 Sqm.	1 Sqm.	299.38	297.40	299.38	299.38
b	Above 0.40 Sqm.	1 Sqm.	359.86	348.95	359.86	359.86
97	Dholpuri Stone Tiles.	1 Sqm.	395.54	387.61	395.54	375.72

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
98	Tiles up to-					
a	20cmx30cm / 20cm x 20cm special plain /printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753	1 Sqm.	369.54	363.81	369.54	365.72
b	30cm x 30cm / 40cm x 40cm special plain / printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755	1 Sqm.	396.28	399.14	409.64	394.37
c	Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15622:2006 (Group-B la) of following sizes.					
i.	Vitrified Tile 600mmx600mm Plain (Ivory)	1 Sqm.	623.54	577.70	635.00	635.00
ii.	Vitrified Tile 600mmx600mm Coloured / Printed series (Homogeneous)	1 Sqm.	677.97	630.22	693.24	673.19
d	Vitrified industrial floor Tile of premium grade having thickness 8mm to 10mm confirming to IS 4457 of size 300mmx300mm	1 Sqm.	567.20	525.19	577.70	568.15
99	Chequered Tiles.	1 Sqm.	216.79	207.80	216.79	216.79
100	Terrazo Tiles.					
a	With grey cement.	1 Sqm.	245.85	231.97	244.86	229.00
b	With white cement	1 Sqm.	291.45	283.52	290.46	270.64
101	Red oxide Primer	1 Litre	127.85	120.91	127.85	121.91
102	Wood Primer	1 Litre	143.71	137.76	144.70	143.71
103	Wood Shine Paint	1 Litre	157.59	148.67	157.59	152.63
104	Plastic Emulsion paint	1 Litre	246.78	235.88	246.78	234.89
105	Enamel paint	1 Litre	188.31	188.31	191.28	189.30



Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
106	Distemper	1 Kg.	65.41	64.42	65.41	65.41
107	Cement paint	1 Kg.	45.59	43.61	45.59	45.59
108	Red oxide powder	1 Kg.	113.98	111.99	114.97	114.97
109	French polish	1 Litre	163.53	159.57	162.54	156.59
110	Varnish	1 Litre	157.59	153.62	157.59	149.66
111	Plaster of paris	1 Kg.	12.45	12.45	12.45	12.45
112	Coal Tar	1 Kg.	47.13	46.06	47.13	47.13
113	G.C.I. Sheet					
a	0.30mm thick	1 Sqm.	306.88	309.06	311.24	303.60
b	0.40mm thick	1 Sqm.	309.06	316.70	317.80	313.43
114	A.C. Sheet	1 Sqm.	192.96	200.22	207.48	207.48
115	A.C. ridges	1 pair	195.03	186.73	195.03	192.96
116	6mm. Thick Plain A.C. Sheet	1 Sqm	239.64	232.38	239.64	233.42
117	Tar Paper	1 Sqm	18.21	18.21	18.21	18.21
118	Putty (Wood)	1 Kg.	27.75	27.75	27.75	27.75
119	Putty (Iron)	1 Kg.	98.12	96.14	98.12	98.12
120	Wire Nails	1 Kg.	69.33	68.17	69.33	69.33
121	M.S. Angle	1 Qntl.	Rate as fixed by SAIL			
122	M.S. Channel	1 Qntl.				
123	Bolt, Nut & Washers	1 Kg.	82.32	79.11	82.32	80.18
124	Holding down bolts minimum 60 Cm. long with 15Cm. x 15 Cm. x 6mm. size washer plate	1 Kg.	79.11	78.04	79.11	79.11
125	Binding Wire.	1 Kg.	91.28	88.97	91.28	88.97
126	Coir String	1 Kg.	53.23	52.07	53.23	53.23
127	Empty Cement bags (HDPE) by lot & not shorted out	100 nos	383.90	378.92	383.90	353.99
b	Empty Cement gunny bags by lot & not shorted out	100 nos	383.90	349.00	383.90	349.00
c	Empty Bitumen Drum	Each	131.62	119.66	131.62	119.66
d	Empty Bitumen Emulsion Drum	Each	252.28	229.35	252.28	229.35
128	Straw in Bundle	100 nos	274.22	245.30	274.22	257.27
129	Marble Chips.	1qntl	665.24	648.74	665.24	610.26

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
130	Marble Powder	1qntl	387.05	378.25	387.05	373.85
131	Cement		Approved factory price of three manufactures of cement inside the State			
a	33 Grade	1qntl				
b	43 Grade	1qntl				
c	53 Grade	1qntl				
132	White Cement.	1qntl	1997.00	1971.06	1995.96	1844.50
133	Steel		Rate as fixed by SAIL			
a	Mild Steel	1qntl				
b	HYSD (Fe-415) / (Fe500)	1qntl				
134	“Z” type Steel Sheet Piles	1qntl	6051.64	6027.53	6050.55	5539.85
135	Bentonite powder	1qntl	331.77	327.27	331.77	311.52
136	Oxidized mild steel fittings (I.S.I.)					
	Butt hinges (I.S.I.)					
a	50x37x1.50mm	Each	6.41	6.41	6.41	6.41
b	75x47x0.70mm	Each	8.55	8.55	8.55	8.55
c	100x58x1.90mm	Each	14.97	14.97	14.97	14.97
d	125x65x2.12mm	Each	23.52	23.52	23.52	23.52
137	M.S. aldop (I.S.I.)					
a	250x16mm	Each	91.01	90.02	91.01	86.06
b	300x16mm	Each	97.93	96.94	97.93	92.00
138	M.S. handle (I.S.I.)					
a	100mm	Each	13.85	13.85	13.85	13.85
b	125mm	Each	15.83	15.83	15.83	15.83
c	150mm	Each	19.78	19.78	19.78	19.78
139	M.S. tower bolt (I.S.I.)					
a	100x10mm	Each	16.82	15.83	16.82	16.82
b	150x10mm	Each	25.72	25.72	25.72	25.72
c	200x10mm	Each	33.63	33.63	33.63	31.65
140	M/S. Screw (I.S.I.)					
a	12x3mm	100 pcs	28.69	26.71	28.69	28.69
b	12x4mm	100 pcs	32.64	32.64	32.64	32.64
c	20x4mm	100 pcs	36.60	36.60	36.60	36.60
d	20x5mm	100 pcs	38.58	38.58	38.58	38.58
e	25x4mm	100 pcs	40.56	40.56	40.56	40.56
f	25x5mm	100 pcs	46.49	46.49	46.49	46.49

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
g	30x4mm	100 pcs	48.47	48.47	48.47	48.47
h	30x5mm	100 pcs	50.45	50.45	50.45	50.45
i	30x6mm	100 pcs	54.41	54.41	54.41	54.41
j	35x6mm	100 pcs	57.37	57.37	57.37	57.37
k	35x7mm	100 pcs	60.34	60.34	60.34	60.34
l	35x8mm	100 pcs	70.23	70.23	70.23	66.28
m	50x7mm	100 pcs	75.18	77.16	77.16	72.21
n	50x8mm	100 pcs	80.13	81.12	81.12	77.16
141	Steel window stay bar (I.S.I.)					
a	200mm	Each	25.35	25.35	25.35	25.35
b	250mm	Each	30.42	30.42	30.42	30.42
c	300mm	Each	37.52	37.52	37.52	37.52
142	Steel window handle including Nut, bolt & washer (I.S.I.)					
a	100mm	Each	20.28	19.26	20.28	20.28
b	150mm	Each	26.36	26.36	26.36	26.36
143	Welded mesh					
a	25mmx25mmx11 gauge	Sqm	190.32	201.01	202.08	191.39
b	25mmx25mmx13 gauge	Sqm	177.49	186.04	186.04	173.21
c	50mmx25mmx11 gauge	Sqm	177.49	186.04	186.04	173.21
d	50mmx25mmx13 gauge	Sqm	161.45	168.93	170.00	160.38
144	G.I. "L" & "J" hook	Kg	73.95	63.55	76.26	72.80
145	W.I clamp	Kg	78.24	79.30	79.30	76.13
146	Aluminium fittings (I.S.I.)					
	Butt hinges (I.S.I.)					
a	125mmx75mmx4mm	Each	70.56	69.49	70.56	67.35
b	125mmx63mmx4mm	Each	58.80	57.73	58.80	56.66
c	100mmx75mmx4mm	Each	54.52	54.52	54.52	53.45
d	100mmx63mmx4mm	Each	52.38	52.38	52.38	51.31
e	75mmx63mmx4mm	Each	35.28	35.28	35.28	35.28
f	50mmx35mmx3.2mm	Each	13.90	13.90	13.90	13.90
147	Aluminium handle (I.S.I.)					
a	150mm with 175mm x 40mm flat	Each	29.61	27.49	29.61	29.61

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
b	125mm with 175mm x 40mm flat	Each	29.61	27.49	29.61	29.61
c	100mm with 150mm x 33mm flat	Each	28.55	28.55	28.55	28.55
d	75mm with 118mm x 33mm flat	Each	27.49	27.49	27.49	27.49
148	Aluminium tower bolt (Barrel type) (I.S.I.)					
a	300mm x10mm	Each	67.67	68.73	69.78	68.73
b	250mm 10mm	Each	63.44	63.44	63.44	63.44
c	200mm x 10mm	Each	57.10	58.15	58.15	58.15
d	150mm x 10mm	Each	48.64	48.64	48.64	48.64
e	100mm x 10mm	Each	39.12	39.12	39.12	39.12
149	Sliding door bolt (Aldrop) (I.S.I.)					
a	300mm x 16mm	Each	228.38	230.50	232.61	219.92
b	250mm x 16mm	Each	216.75	216.75	220.98	209.35
150	Brass fittings (I.S.I.) Butt hinges (light/Ordinary) (I.S.I.)					
a	125mm x 70mm x 4mm	Each	68.36	69.43	70.50	69.43
b	100mm x 70mm x 4mm	Each	52.34	52.34	52.34	52.34
c	75mm x 40mm x 2.5mm	Each	38.45	38.45	38.45	38.45
d	50mm x 40mm x 2.5mm	Each	19.23	18.16	19.23	19.23
151	Brass But hinges (Heavy type) (I.S.I.)					
a	125mm x 85mm x 5.5mm (0.07 kg)	Each	214.70	213.63	216.84	200.82
b	100mmx85mm5.5mm (0.056 kg)	Each	195.48	194.41	195.48	180.52
c	75mmx65mmx4mm (0.02 kg)	Each	82.25	81.18	82.25	82.25
152	Brass tower bolt (Barrel type) (I.S.I.)					
a	250mm x 10-mm	Each	210.43	218.97	223.25	206.16
b	200mm x 10mm	Each	177.32	183.73	184.79	171.98
c	150mm x 10mm	Each	132.45	134.59	137.79	130.32
d	100mm x 10mm	Each	98.27	99.34	100.41	97.20

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
153	Brass Screws (I.S.I.)					
a	50mm	100 Nos	186.93	188.00	189.07	175.18
b	40mm	100 Nos	168.77	170.91	170.91	158.09
c	30mm	100 Nos	144.20	145.27	147.41	136.73
d	25mm	100 Nos	131.38	129.25	131.38	121.77
e	20mm	100 Nos	97.20	72.64	97.20	91.86
154	Chromium plated fittings (Brass) (I.S.I.) Handle (I.S.I.)					
a	125mm with 175 x 32mm plate	Each	154.88	155.95	158.09	154.88
b	100mm with 150 x 25mm plate	Each	133.52	131.38	134.59	133.52
c	75mm with 125 x 25mm plate	Each	116.43	117.50	118.57	118.57
155	Wall cement primer (I.S.I.)					
a	Oil bound	1 ltr	113.98	111.00	116.95	112.99
b	Water bound	1 ltr	145.69	150.65	152.63	143.71
156	Aluminium paint (I.S.I.)	1 ltr	158.58	161.55	163.53	148.67
157	Weather Coat (I.S.I.)	1 ltr	184.35	188.31	190.29	173.44
158	Adhesive (I.S.I.)	1 Kg	200.88	210.53	212.46	196.05
159	Bitumenous expansion joint board (I.S.I.)					
a	12mm thick	Sqm	722.50	736.93	738.99	676.12
b	16mm thick	Sqm	999.75	1046.13	1050.26	972.95
c	25mm thick	Sqm	1306.89	1345.03	1360.49	1272.88
160	Barbed wire (I.S.I.)	Kg	68.89	67.85	68.89	68.89
161	Glass plain (I.S.I.)					
a	3mm	Sqm	353.94	366.50	368.60	345.56
b	4mm	Sqm	397.92	418.86	419.91	390.59
c	5mm	Sqm	544.52	554.99	558.13	521.48
d	6mm	Sqm	612.58	628.29	633.53	581.17
e	8mm	Sqm	942.43	973.85	979.08	936.15
f	10mm	Sqm	1182.23	1212.60	1232.49	1175.95
g	12mm	Sqm	1393.76	1447.16	1456.58	1371.77
162	Glass pin headed (I.S.I.)					
a	4mm	Sqm	319.38	328.80	329.85	326.71
b	5mm	Sqm	405.25	411.53	414.67	411.53
163	Black glass (I.S.I.)					

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
a	4mm	Sqm	546.61	560.22	564.41	528.81
b	5mm	Sqm	648.19	672.27	679.60	633.53
c	6mm	Sqm	783.27	816.78	829.34	778.03
d	8mm	Sqm	1237.73	1289.04	1306.84	1244.01
e	12mm	Sqm	1963.40	2047.18	2061.84	1921.52
164	Frosted glass (I.S.I.)					
a	4mm	Sqm	538.23	543.47	552.89	526.72
b	5mm	Sqm	576.98	579.07	587.45	563.37
165	Wire glass – 6 mm (I.S.I.)	Sqm	660.75	674.36	684.84	649.23
166	Sun-control film (I.S.I.)					
a	Reflective	Sqm	596.87	597.92	610.49	575.93
b	Non-reflective	Sqm	424.10	423.05	437.71	424.10
167	Prelaminated particle board (standard type) (I.S.I.)					
a.	9mm	Sqm	627.34	574.11	631.52	615.86
b	12mm	Sqm	700.41	657.61	723.37	699.37
c	18mm	Sqm	765.13	730.68	803.75	770.35
d	25mm	Sqm	841.33	866.38	953.02	908.13
168	BWR ply wood (I.S.I.)					
a	3mm	Sqm	310.02	297.49	310.02	292.27
b	4mm	Sqm	350.73	354.90	361.17	338.20
c	6mm	Sqm	501.04	503.13	516.70	478.07
d	9mm	Sqm	618.99	626.30	636.74	589.76
e	12mm	Sqm	803.75	824.63	838.20	770.35
f	16mm	Sqm	942.58	983.29	998.95	915.44
g	19mm	Sqm	1116.90	1075.14	1171.18	1070.97
h	25mm	Sqm	1594.97	1649.25	1676.39	1529.21
169	BWR Block Board (I.S.I.)					
a	16mm	Sqm	843.41	871.60	884.12	817.32
b	19mm	Sqm	949.89	983.29	998.95	921.70
c	25mm	Sqm	1054.27	1127.34	1136.73	1046.96
d	32mm	Sqm	1326.71	1398.73	1412.30	1297.48
170	Vinyl Flooring (I.S.I.)					
(A)	Homogeneous Range (I.S.I.)					
i	PVC (MF) Classic roll-1.00mm thick	Sqm	285.59	293.28	296.17	274.05
ii	PVC (MF) classic tile-1.00mm thick	Sqm	336.55	331.74	338.47	315.40

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
iii	PVC (MF) impress roll-1.50mm thick	Sqm	387.51	384.63	391.36	360.59
iv	PVC (MF) impress tile-1.50mm thick	Sqm	447.13	464.44	470.21	432.71
v	PVC (MF) super roll-2.00mm thick	Sqm	502.90	519.25	524.06	481.75
vi	PVC (MF) super tile -2.00mm thick	Sqm	584.64	600.98	605.79	555.79
(B)	Heterogeneous Range (I.S.I.)					
i	PVC (MF) Hetro roll-2.00mm thick	Sqm	536.56	539.44	550.02	517.33
ii	PVC (MF) hetro tile-2.00mm thick	Sqm	597.14	616.37	624.06	584.64
171	Aluminium extruded section	Kg	290.27	294.84	301.70	300.56
172	Roll formed sections made of pre-painted steel ( base steel as per IS-513 of 0.6 mm thick "D" quality, galvanised as per IS-277 with zinc of 120 gm / sq. mtr)					
a	Outer frames Po-527	Mtr	369.32	369.32	373.71	339.73
b	Intermediate mullion Po-528	Mtr	400.01	406.58	415.35	378.09
c	Shutter frame Po-153	Mtr	312.34	309.05	313.43	284.94
d	Fixed bedding Po-179	Mtr	161.10	154.52	161.10	146.85
e	Sliding shutter Po-254	Mtr	192.88	189.59	192.88	175.35
f	Outer frames(side / top) Po-255	Mtr	232.33	230.14	234.53	213.70
g	Outer frames(bottom) Po-256	Mtr	162.20	156.72	162.20	147.95
h	Sliding track (SS) Po-257	Mtr	600.56	610.42	614.81	558.92
i	Sashbar Po-101	Mtr	566.59	578.64	578.64	526.04
j	Sashbar at shutter Po-107	Mtr	287.13	316.72	318.91	290.42
k	Louvered horizontal (Top/Bottom) Po-193A	Mtr	162.20	161.10	162.20	147.95
l	33 x 57 Box Section	Mtr	373.71	373.71	379.19	345.21

Sl. No.	Name of items	Unit	Cuttack	Puri	Balasore	Mayurbhanj
m	100x50mm Box Section	Mtr	555.63	560.01	566.59	515.08
n	Small Z Section	Mtr	273.98	272.88	277.27	252.06
o	Extended Z Section	Mtr	367.13	369.32	373.71	339.73
p	Cover Profile	Mtr	132.61	131.51	134.80	122.74
	<b>Accessories</b>					
a	sliding outer frame assembly / pc	Each	292.61	293.71	298.09	271.79
b	sliding shutter / pc	Each	247.68	362.75	367.13	334.25
c	Sashbar	Each	19.73	19.73	19.73	18.63
d	Wall fixing with polymide anchor at every 600mm c/c of outer frame	Each	31.78	31.78	31.78	29.59
e	Outer frame corner	Each	48.22	48.22	48.22	43.84
f	Top hung shutter / pc	Each	389.05	394.53	397.82	361.65
g	Fixed mullion	Each	60.28	59.18	60.28	54.80
h	Fixed glazing	Each	120.55	117.26	120.55	109.59
i	Louvered blade	Each	31.78	31.78	31.78	29.59
j	Side hung door / pc	Each	446.04	454.80	458.09	416.45
k	Door lock / pc	Each	401.10	405.49	409.87	372.61
l	Swing door shutter / pc	Each	224.66	226.85	229.05	208.22
m	Floor Spring (Godrej Make)	Each	3431.31	3490.49	3495.97	3178.15
	<b>Gasket</b>					
a	For Shutter Po-153	Mtr	44.93	44.93	44.93	41.64
b	For beading Po-179	Mtr	60.28	59.18	60.28	54.80
c	For Sashbar Po-101	Mtr	124.93	123.84	126.03	115.07
173	Rate of 60 micron powder coating (including labour charges and material for powder coating) for aluminium section.	Kg of Aluminium	30.66	30.66	28.55	28.55
174	12.5 mm thick gypsum board of size 6' x 4'	One Piece	394.21	394.21	363.09	363.09



<b>Sl. No.</b>	<b>Name of items</b>	<b>Unit</b>	<b>Cuttack</b>	<b>Puri</b>	<b>Balasore</b>	<b>Mayurbhanj</b>
175	Waste Plastic duly cleaned and shredded conforming to the size passing 2.36mm sieve and retained on 600 micron seive and conforming to requirement if IRC:SP:98-2013.	Per Kg	36.80	36.80	36.80	36.80

**1.2 FOR UN-DIVIDED DISTRICTS OF NORTHERN RDC DIVISION**

<b>Sl. No.</b>	<b>Name of items</b>	<b>Unit</b>	<b>Sambalpur</b>	<b>Balangir</b>	<b>Sundargarh</b>	<b>Dhenkanal</b>	<b>Keonjhar</b>
1	Well burnt clamp burnt bricks (25 Cm. x 12Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	3525.64	3650.90	3471.65	3650.90	3498.65
2	Well burnt clamp burnt bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	3250.29	3321.56	3147.70	3321.56	3185.50
3	K.B. bricks (25 Cm x 12Cm x 8Cm) having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	4643.27	4669.18	4441.34	4669.18	4470.50
4	K.B. bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	4097.95	4222.13	3995.37	4222.13	4200.54
5	Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2%	1000 Nos	4887.04	4321.17	4681.27	4758.44	4722.43
6	Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2%	1000 Nos	4424.06	4115.40	4238.87	4292.37	4238.87
7	Fly ash blocks of 30 Cm. x 20 Cm. x 15 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2 %	Each	17.49	17.49	16.46	17.49	17.49

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
8	Cement concrete solid Block machine mixed and Hydraulic compressed having crushing strength not less than 75kg/cm <sup>2</sup>						
a.	400mm x 200mm x 200mm size	Each	30.61	30.61	29.62	29.62	29.62
b.	400mm x 150mm x 200mm size	Each	22.71	22.71	21.72	22.71	21.72
c.	400mm x 100mm x 150mm size	Each	16.79	16.79	16.79	16.79	16.79
d.	300mm x 200mm x 150mm size	Each	18.76	18.76	18.76	18.76	18.76
e.	300mm x 150mm x 150mm size	Each	15.80	15.80	15.80	15.80	14.81
f.	300mm x 100mm x 150mm size	Each	11.85	11.85	11.85	11.85	11.85
9	Cement concrete Hollow Blocks machine mixed and Hydraulic compressed having crushing strength not less than 70kg/cm <sup>2</sup>						
a.	400mm x 200mm x 200mm size	Each	25.67	23.70	24.69	25.67	24.69
b.	400mm x 150mm x 200mm size	Each	19.75	18.76	19.75	19.75	19.75
c.	400mm x 100mm x 200mm size	Each	13.82	13.82	13.82	13.82	13.82
d.	300mm x 200mm x 150mm size	Each	13.82	11.85	13.82	13.82	13.82
e.	300mm x 150mm x 150mm size	Each	13.82	11.85	13.82	13.82	13.82
f.	300mm x 100mm x 150mm size	Each	11.85	10.86	11.85	11.85	11.85
10	K.B. bricks Khoa 4 Cm.size	1 Cum	377.94	377.94	370.38	377.94	361.74
11	Clamp burnt brick Khoa 4 cm. size.	1 Cum	306.67	306.67	289.39	306.67	293.71
12	Surki of clamp burnt bricks.	1 Cum	468.65	481.60	458.93	472.97	461.09

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
13	Surki of Kiln burnt bricks.	1 Cum	532.36	532.36	507.52	514.00	507.52
14	Screen washed gravel for concrete (12mm. to 20mm.)	1 Cum	171.55	152.49	162.66	171.55	165.20
15	Gravel or moorum	1 Cum	63.54	63.54	59.73	63.54	63.54
16	Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	1 Cum	109.60	109.60	104.62	109.60	95.90
17	River single or Bajri (12mm. to 20mm.)	1 Cum	130.89	120.72	124.53	130.89	127.08
18	Screened and washed sharp sand for mortar	1 Cum	69.89	69.89	67.35	69.89	69.89
19	Sand for filling and road blinding	1 Cum	61.00	61.00	58.46	61.00	58.46
20	Clay mortar for masonry work with admixture of sand.	1 Cum	69.89	66.08	68.62	69.89	67.35
21	Stone lime unslaked.	1 Kg.	19.76	19.76	19.76	19.76	19.76
22	Ghooting lime unslaked.	1 Kg.	24.41	24.41	24.41	24.41	24.41
23	Shell lime unslaked.	1 Kg.	22.08	22.08	22.08	22.08	22.08
24 a	Granite broken stone of size not less than 0.0025 Cum. Stacked	1 Cum.	290.09	290.09	277.53	290.09	279.81
b	Granite stone of size not less than 0.0025 Cum. picked up.	1 Cum.	263.82	263.82	251.26	263.82	251.26
25	Stone other than granite quarried, broken and staked 0.0015 Cum to 0.003 Cum	1 Cum.	257.80	257.80	246.59	257.80	249.09
26	Stone other than granite picked up and staked 0.0015 Cum. to 0.003 Cum	1 Cum.	226.67	226.67	214.21	226.67	217.95
27	Stone other than granite quarried, broken and staked above 0.003 Cum	1 Cum.	239.12	239.12	224.18	239.12	230.40

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
28	Stone other than granite picked up, broken and staked above 0.003 Cum	1 Cum.	232.90	232.90	217.95	232.90	224.18
29	Granite Stone broken metal 63mm. size Passing through 90mm. Sieve and retained on 53 mm sieve.						
a	Crusher broken.	1 Cum.	869.31	869.31	815.76	864.33	834.44
b	Hand broken.	1 Cum.	676.27	676.27	628.94	676.27	647.62
30	Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve)						
a	Crusher broken.	1 Cum.	897.95	897.95	850.63	897.95	834.44
b	Hand broken.	1 Cum.	694.95	694.95	663.81	694.95	666.30
31	Granite Stone broken metal 40mm. size	1 Cum.					
a	Crusher broken.	1 Cum.	971.43	971.43	921.62	971.43	927.84
b	Hand broken.	1 Cum.	789.60	789.60	741.03	789.60	759.71
32	Granite Stone broken metal 26.5mm. size (Passing through 45mm sieve & retained on 22.4mm sieve)						
a	Crusher broken.	1 Cum.	1000.08	1000.08	946.53	1000.08	958.98
b	Hand broken.	1 Cum.	795.83	692.46	753.48	795.83	759.71
33	Granite Stone broken metal 25mm. size (Passing through 40mm sieve & retained on 20mm sieve)						
a	Crusher broken.	1 Cum.	1032.46	1032.46	981.40	1032.46	990.12
b	Hand broken.	1 Cum.	843.16	733.56	797.07	843.16	803.30

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
34	Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve)						
a	Crusher broken.	1 Cum.	1062.35	1062.35	996.34	1062.35	1015.02
b	Hand broken.	1 Cum.	870.55	757.22	797.07	870.55	834.44
35	Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve)						
a	Crusher broken.	1 Cum.	1418.54	1407.33	1345.06	1394.88	1357.52
b	Hand broken.	1 Cum.	1169.46	1017.52	1099.71	1150.78	1114.66
36	Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve)						
a	Crusher broken.	1 Cum.	1426.02	1426.02	1355.03	1426.02	1363.74
b	Hand broken.	1 Cum.	1178.18	1024.99	1105.94	1178.18	1127.11
37	Granite Stone broken chips 12mm. size (Minimum 65% by Wt. Passing through 13.2mm sieve & retained on 9.50mm sieve but whole should pass through 19mm sieve)						
a	Crusher broken.	1 Cum.	1454.66	1432.24	1367.48	1443.45	1394.88
b	Hand broken.	1 Cum.	1191.88	1037.44	1120.89	1191.88	1139.57
38	Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve)						
a	Crusher broken.	1 Cum.	1492.02	1432.24	1411.07	1460.89	1426.02
b	Hand broken.	1 Cum.	1204.33	1047.41	1137.08	1204.33	1152.02

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
39	Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve)						
a	Crusher broken.	1 Cum.	1513.20	1432.24	1426.02	1501.99	1450.92
b	Hand broken.	1 Cum.	1204.33	1047.41	1137.08	1204.33	1152.02
(A)	Granite Stone broken chips 6.7mm size (Passing through 11.2mm sieve & retained on 2.8mm sieve)	1 Cum.	1010.04	996.34	952.75	1010.04	965.21
(B)	Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	1 Cum.	895.46	747.26	840.66	895.46	859.35
40	Granite stone broken chips of 4.7 mm size passing through 6.7 mm sieve (crusher broken.) and retained on 2.36 mm sieve.	1 Cum.	924.11	924.11	869.31	924.11	884.25
41	Stone other than granite broken to 5cm. size.	1 Cum.	347.47	302.64	323.81	347.47	336.27
42	Stone other than granite broken to 4 cm. size.	1 Cum.	363.67	316.34	340.00	363.67	348.72
43	Stone other than granite broken to 2 cm. size.	1 Cum.	402.27	349.97	373.63	402.27	384.84
44	Stone other than granite broken to 1cm. size.	1 Cum.	414.73	361.17	386.08	414.73	397.29
45	Stone boulder 15cm. & above size granite picked up and nullah boulders.	1 Cum.	174.36	174.36	165.64	174.36	168.13
46	Soiling stone boulder 15Cm. & above size picked up nullah boulders broken.	1 Cum.	196.78	196.78	184.32	196.78	189.31

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
47	Stone boulder 15cm. & above size other than granite or laterite picked up and nullah boulders.	1 Cum.	164.40	164.40	150.70	164.40	158.17
48	Soiling stone boulder 15Cm. & above size other than granite or laterite picked up nullah boulders broken.	1 Cum.	176.85	176.85	165.64	176.85	169.38
49	Soling stone boulders 10 Cm. size picked up other than granite.	1 Cum.	163.15	163.15	153.19	163.15	155.68
50	Hard broken soling stone other than granite (40mm. to 90mm.)	1 Cum.	257.80	224.18	242.86	257.80	246.59
51	I.R.C. Grade I (90mm-45 mm.)	1 Cum.	803.30	803.30	749.75	803.30	768.43
52	I.R.C. Grade II (63mm. to 45mm.)	1 Cum.	884.25	884.25	831.95	884.25	846.89
53	I.R.C. Grade III (53mm. to 22.4mm.)	1 Cum.	957.73	957.73	887.99	957.73	915.39
54	Laterite soling stone 23Cm. size	1 Cum.	138.48	126.38	133.10	145.20	138.48
55	Laterite Stone rough dressed	1 Cum.	750.22	681.65	712.57	778.45	752.91
56	Bamboo mat or talai.	1 Sqm.	132.40	121.41	112.30	135.00	118.97
57	Bamboo 1ST class 7Cm. to 10Cm. dia & above 6m. long.	Each	69.00	80.00	69.00	88.00	88.00
58 a	Belongi Bomboo 2.51 Cm. to 4Cm. dia & above 5m. long.	Each	34.67	34.67	34.67	42.00	42.00
b	Belongi Bomboo above 4Cm. dia & up to 7Cm. dia & above 5m. long.	Each	41.00	42.50	41.00	51.00	51.00
59	Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	1Mtr	51.87	51.87	51.87	51.87	51.87
60	Sal bullahs 150mm. to 200mm. mean dia up to 5.5m. long.	1Mtr	124.26	124.26	124.26	124.26	124.26



Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
61	Sal bullahs above 200mm. & up to 250mm. mean dia & up to 2.75m. long.	1Cum.	18069.75	18069.75	18069.75	18069.75	18069.75
62	Sal bullahs above 200mm. & up to 250mm. mean dia above 2.75m. long & up to 4.75m. long.	1Cum.	22474.75	22474.75	22474.75	22474.75	22474.75
63	Sal bullahs above 200mm. & up to 250mm. mean dia above 4.75m. long	1Cum.	26849.00	26849.00	26849.00	26849.00	26849.00
64	Sal bullahs above 250mm. & up to 380mm. mean dia & up to 2.75m. long	1Cum.	29736.50	29736.50	29736.50	29736.50	29736.50
65	Sal bullahs above 250mm. & up to 380mm. mean dia & above 2.75m. long up to 4.75m. long	1Cum.	36622.50	36622.50	36622.50	36622.50	36622.50
66	Sal bullahs above 250mm. & up to 380mm. mean dia & above 4.75m. long.	1Cum.	42542.67	42542.67	42542.67	42542.67	42542.67
67	Non-sal bullahs 75mm. mean dia of any length.	1Mtr.	30.81	30.81	30.81	30.81	30.81
68	Non-sal bullahs 100mm. mean dia of any length.	1Mtr.	41.81	41.81	41.81	41.81	41.81
69	Non-sal bullahs 125mm. mean dia of any length.	1Mtr.	41.81	41.81	41.81	41.81	41.81
70	Non-Sal bullahs 150mm. to 200mm. mean dia of any length.	1Mtr.	67.82	67.82	67.82	67.82	67.82
71	Non-Sal bullahs above 200mm. & up to 250mm. mean dia up to 2.5m. long.	1Cum.	18070.06	18070.06	18070.06	18070.06	18070.06
72	Non-Sal bullahs above 200mm. & up to 250mm. mean dia above 2.5m. long.	1Cum.	24643.33	24643.33	24643.33	24643.33	24643.33

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
73	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & up to 2.75m. long.	1Cum.	53035.75	53035.75	53035.75	53035.75	53035.75
74	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & above 2.75m. long.	1Cum.	71150.50	71150.50	71150.50	71150.50	71150.50
75	Seasoned Sal wood beam of cross sectional area not less than 150Sq.cm. & least lateral dimension 100mm. & above 2.75m. long.	1Cum.	65533.50	65533.50	65533.50	65533.50	65533.50
76	Seasoned Sal wood planks not more than 75mm. thick & not less than 200mm. width.	1Cum.	63839.00	63839.00	63839.00	63839.00	63839.00
77	Seasoned Piasal wood planks for shutters.	1Cum.	74369.67	74369.67	74369.67	74369.67	74369.67
78	Seasoned Teak wood planks for shutters.	1Cum.	114414.94	114414.94	114414.94	114414.94	114414.94
79	Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	1Cum.	58374.79	58374.79	58374.79	58374.79	58374.79
80	Non-Sal reapers.	1Cum.	13268.45	13268.45	13268.45	13268.45	13268.45
81	Fire wood	1Qntl	450.00	450.00	450.00	740.00	456.00
82	1St class Raniganj or Mangalore pattern tiles.	100 Nos.	1007.05	916.13	547.48	1053.00	1007.05
83	Ridges of Raniganj or Mangalore parttern tiles.	100 Nos.	1529.55	1390.68	1438.64	1514.57	1529.55
84	Flat tiles (14Cm. x14 Cm.x 1Cm. )	1000 Nos.	330.69	300.72	296.72	345.67	330.69
85	Flat tiles (15Cm x15Cmx 1.2 Cm )	1000 Nos.	359.66	326.69	328.69	375.64	359.66
86	Flat tiles (30Cm. x 15 Cm.x 2.5 Cm. )	1000 Nos.	1424.65	1294.78	1305.77	1411.66	1423.65

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
87	Flat tiles (30Cm. x 30 Cm.x 2.5 Cm. )	1000 Nos.	1673.42	1519.56	1537.55	1747.35	1673.42
88	Pan tiles	1000 Nos.	334.68	303.71	311.71	316.70	333.68
89	Nuria tiles (20Cm. to 25Cm.)	1000 Nos.	792.25	792.25	735.30	779.26	759.28
90	Nuria tiles (25Cm. to 30Cm.)	1000 Nos.	924.13	954.10	888.16	954.10	913.14
91	Ridge tiles	1000 Nos.	1017.04	1088.97	1009.05	1088.97	1042.01
92	Marble Tiles of minimum 16 mm thick, dunguri Variety.						
a	Up to 0.10 Sqm.	1 Sqm.	539.29	539.29	539.29	539.29	539.29
b	Above 0.10 Sqm. to 0.40 Sqm.	1 Sqm.	659.24	659.24	652.30	659.24	659.24
c	Above 0.4 Sqm. to 1.00 Sqm.	1 Sqm.	743.50	743.50	733.59	743.50	743.50
93	Kota Tiles of minimum 16 mm thick						
a	Up to 0.10 Sqm.	1 Sqm.	398.52	398.52	394.55	398.52	398.52
b	Above 0.10 Sqm.	1 Sqm.	486.75	486.75	480.80	486.75	487.74
94	Khandolites (Up to 0.06 Sqm.)	1 Sqm.	312.27	312.27	305.33	312.27	312.27
95	Granite Tiles						
a	Up to 0.10 Sqm. (10mm thick)	1 Sqm.	1162.84	1162.84	1152.93	1162.84	1162.84
b	Above 0.10 Sqm						
i	Above 0.10 Sqm & up to 0.4 sqm (10mm. thick)	1 Sqm.	1319.47	1319.47	1311.54	1319.47	1319.47
ii	Above 0.40 sqm. (20mm thick)	1 Sqm.	2071.90	2071.90	2071.90	2071.90	2071.90
96	Kodappa Tiles of 10 mm thick						
a	Above 0.1 Sqm & Up to 0.40 Sqm.	1 Sqm.	299.38	299.38	297.40	299.38	299.38
b	Above 0.40 Sqm.	1 Sqm.	359.86	359.86	349.94	359.86	359.86
97	Dholpuri Stone Tiles.	1 Sqm.	395.54	359.86	395.54	395.54	395.54

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
98	Tiles up to-						
a	20cmx30cm / 20cm x 20cm special plain /printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753	1 Sqm.	369.54	369.54	362.86	369.54	369.54
b	30cm x 30cm / 40cm x 40cm special plain / printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755	1 Sqm.	409.64	409.64	405.82	409.64	409.64
c	Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15622:2006 (Group-B 1a) of following sizes.						
i.	Vitrified Tile 600mmx600mm Plain (Ivory)	1 Sqm.	635.00	635.00	633.09	635.00	635.00
ii.	Vitrified Tile 600mmx600mm Coloured / Printed series (Homogeneous)	1 Sqm.	693.24	693.24	682.74	693.24	693.24
d	Vitrified industrial floor Tile of premium grade having thickness 8mm to 10mm confirming to IS 4457 of size 300mmx300mm	1 Sqm.	577.70	577.70	572.93	577.70	577.70
99	Chequered Tiles.	1 Sqm.	216.79	216.79	216.79	216.79	216.79
100	Terrazo Tiles.						
a	With grey cement.	1 Sqm.	245.85	224.04	242.88	245.85	245.85
b	With white cement	1 Sqm.	291.45	265.68	290.46	291.45	291.45
101	Red oxide Primer	1 Litre	127.85	127.85	122.90	127.85	127.85
102	Wood Primer	1 Litre	144.70	144.70	141.73	144.70	143.71
103	Wood Shine Paint	1 Litre	157.59	157.59	153.62	157.59	157.59
104	Plastic Emulsion paint	1 Litre	246.78	246.78	246.78	246.78	246.78
105	Enamel paint	1 Litre	191.28	191.28	191.28	191.28	191.28

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar	
106	Distemper	1 Kg.	65.41	65.41	65.41	65.41	65.41	
107	Cement paint	1 Kg.	42.62	34.69	45.59	45.59	45.59	
108	Red oxide powder	1 Kg.	114.97	114.97	111.99	114.97	114.97	
109	French polish	1 Litre	163.53	148.67	161.55	163.53	163.53	
110	Varnish	1 Litre	157.59	157.59	156.59	157.59	147.67	
111	Plaster of paris	1 Kg.	12.45	12.45	12.45	12.45	12.45	
112	Coal Tar	1 Kg.	47.13	47.13	47.13	47.13	47.13	
113	G.C.I. Sheet							
a	0.30mm thick	1 Sqm.	312.34	251.18	305.78	309.06	312.34	
b	0.40mm thick	1 Sqm.	318.89	262.10	316.70	318.89	318.89	
114	A.C. Sheet	1 Sqm.	207.48	188.81	207.48	207.48	207.48	
115	A.C. ridges	1 pair	195.03	195.03	186.73	195.03	195.03	
116	6mm. Thick Plain A.C. Sheet	1 Sqm	239.64	217.85	238.60	239.64	239.64	
117	Tar Paper	1 Sqm	18.21	18.21	18.21	18.21	18.21	
118	Putty (Wood)	1 Kg.	27.75	27.75	27.75	27.75	27.75	
119	Putty (Iron)	1 Kg.	98.12	89.20	98.12	98.12	98.12	
120	Wire Nails	1 Kg.	69.33	69.33	69.33	69.33	69.33	
121	M.S. Angle	1 Qntl.	Rate as fixed by SAIL					
122	M.S. Channel	1 Qntl.						
123	Bolt, Nut & Washers	1 Kg.	82.32	69.49	82.32	82.32	82.32	
124	Holding down bolts minimum 60 Cm. long with 15Cm. x 15 Cm. x 6mm. size washer plate	1 Kg.	79.11	69.49	79.11	79.11	79.11	
125	Binding Wire.	1 Kg.	84.35	86.66	91.28	91.28	91.28	
126	Coir String	1 Kg.	53.23	46.28	50.91	53.23	53.23	
127	Empty Cement bags (HDPE) by lot & not shorted out	100 nos	356.98	349.00	368.95	292.17	358.98	
b	Empty Cement gunny bags by lot & not shorted out	100 nos	356.98	329.06	368.95	292.17	358.98	
c	Empty Bitumen Drum	Each	131.62	131.62	131.62	125.64	131.62	
d	Empty Bitumen Emulsion Drum	Each	250.29	199.43	252.28	241.31	252.28	
128	Straw in Bundle	100 nos	274.22	248.29	274.22	274.22	274.22	
129	Marble Chips.	1qntl	665.24	604.76	659.74	641.05	665.24	

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
130	Marble Powder	1qntl	387.05	351.86	382.65	385.95	387.05
131	Cement		Approved factory price of three manufactures of cement inside the State				
a	33 Grade	1qntl					
b	43 Grade	1qntl					
c	53 Grade	1qntl					
132	White Cement.	1qntl	1997.00	1789.52	1862.14	1997.00	1997.00
133	Steel		Rate as Fixed by SAIL				
a	Mild Steel	1qntl					
b	HYSD (Fe-415) / (Fe500)	1qntl					
134	“Z” type Steel Sheet Piles	1qntl	6049.45	5041.21	5808.35	3025.82	6051.64
135	Bentonite powder	1qntl	327.27	331.77	326.14	166.45	331.77
136	Oxidized mild steel fittings (I.S.I.)						
	Butt hinges (I.S.I.)						
a	50x37x1.50mm	Each	6.41	6.41	6.41	6.41	6.41
b	75x47x0.70mm	Each	8.55	8.55	8.55	8.55	8.55
c	100x58x1.90mm	Each	14.97	14.97	14.97	14.97	14.97
d	125x65x2.12mm	Each	23.52	23.52	23.52	23.52	23.52
137	M.S. aldrop (I.S.I.)						
a	250x16mm	Each	91.01	91.01	89.03	91.01	89.03
b	300x16mm	Each	97.93	97.93	95.95	97.93	97.93
138	M.S. handle (I.S.I.)						
a	100mm	Each	13.85	13.85	13.85	13.85	13.85
b	125mm	Each	15.83	15.83	15.83	15.83	15.83
c	150mm	Each	19.78	19.78	19.78	19.78	19.78
139	M.S. tower bolt (I.S.I.)						
a	100x10mm	Each	16.82	16.82	16.82	16.82	16.82
b	150x10mm	Each	25.72	25.72	25.72	25.72	25.72
c	200x10mm	Each	33.63	33.63	33.63	33.63	33.63
140	M/S. Screw (I.S.I.)						
a	12x3mm	100 pcs	28.69	15.83	28.69	28.69	28.69
b	12x4mm	100 pcs	32.64	17.81	32.64	32.64	32.64
c	20x4mm	100 pcs	36.60	24.73	36.60	36.60	36.60
d	20x5mm	100 pcs	38.58	25.72	38.58	38.58	38.58
e	25x4mm	100 pcs	40.56	35.61	39.57	40.56	40.56
f	25x5mm	100 pcs	46.49	31.65	45.50	46.49	46.49

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
g	30x4mm	100 pcs	48.47	38.58	47.48	48.47	48.47
h	30x5mm	100 pcs	50.45	39.57	49.46	50.45	50.45
i	30x6mm	100 pcs	54.41	45.50	54.41	54.41	54.41
j	35x6mm	100 pcs	57.37	46.49	56.39	57.37	57.37
k	35x7mm	100 pcs	60.34	60.34	60.34	60.34	60.34
l	35x8mm	100 pcs	70.23	70.23	67.27	70.23	70.23
m	50x7mm	100 pcs	77.16	77.16	76.17	77.16	77.16
n	50x8mm	100 pcs	81.12	81.12	80.13	81.12	81.12
141	Steel window stay bar (I.S.I.)						
a	200mm	Each	25.35	25.35	25.35	25.35	25.35
b	250mm	Each	30.42	30.42	30.42	30.42	30.42
c	300mm	Each	37.52	37.52	36.50	37.52	37.52
142	Steel window handle including Nut, bolt & washer (I.S.I.)						
a	100mm	Each	20.28	20.28	20.28	20.28	20.28
b	150mm	Each	26.36	24.33	26.36	26.36	26.36
143	Welded mesh						
a	25mmx25mmx11 gauge	Sqm	202.08	202.08	195.66	202.08	202.08
b	25mmx25mmx13 gauge	Sqm	186.04	186.04	179.62	186.04	186.04
c	50mmx25mmx11 gauge	Sqm	186.04	170.00	179.62	186.04	186.04
d	50mmx25mmx13 gauge	Sqm	170.00	155.03	165.72	170.00	170.00
144	G.I. "L" & "J" hook	Kg	76.26	76.26	76.26	76.26	76.26
145	W.I clamp	Kg	79.30	68.73	79.30	79.30	79.30
146	Aluminium fittings (I.S.I.)						
	Butt hinges (I.S.I.)						
a	125mmx75mmx4mm	Each	70.56	70.56	69.49	70.56	70.56
b	125mmx63mmx4mm	Each	58.80	53.45	57.73	58.80	58.80
c	100mmx75mmx4mm	Each	54.52	54.52	54.52	54.52	54.52
d	100mmx63mmx4mm	Each	52.38	52.38	52.38	52.38	52.38
e	75mmx63mmx4mm	Each	35.28	29.93	35.28	35.28	35.28
f	50mmx35mmx3.2mm	Each	13.90	13.90	13.90	13.90	13.90
147	Aluminium handle (I.S.I.)						
a	150mm with 175mm x 40mm flat	Each	29.61	29.61	29.61	29.61	29.61
b	125mm with 175mm x 40mm flat	Each	29.61	29.61	29.61	29.61	29.61

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
c	100mm with 150mm x 33m flat	Each	28.55	28.55	28.55	28.55	28.55
d	75mm with 118mm x 33mm flat	Each	27.49	27.49	27.49	27.49	27.49
148	Aluminium tower bolt (Barrel type) (I.S.I.)						
a	300mm x10mm	Each	69.78	69.78	68.73	69.78	69.78
b	250mm 10mm	Each	63.44	63.44	63.44	63.44	63.44
c	200mm x 10mm	Each	58.15	58.15	58.15	58.15	58.15
d	150mm x 10mm	Each	48.64	48.64	48.64	48.64	48.64
e	100mm x 10mm	Each	39.12	39.12	39.12	39.12	39.12
149	Sliding door bolt (Aldrop) (I.S.I.)						
a	300mm x 16mm	Each	232.61	232.61	226.27	232.61	232.61
b	250mm x 16mm	Each	220.98	220.98	211.46	220.98	220.98
150	Brass fittings (I.S.I.) Butt hinges (light/Ordinary) (I.S.I.)						
a	125mm x 70mm x 4mm	Each	70.50	70.50	69.43	70.50	70.50
b	100mm x 70mm x 4mm	Each	52.34	52.34	52.34	52.34	52.34
c	75mm x 40mm x 2.5mm	Each	38.45	38.45	38.45	38.45	38.45
d	50mm x 40mm x 2.5mm	Each	19.23	19.23	19.23	19.23	19.23
151	Brass But hinges (Heavy type) (I.S.I.)						
a	125mm x 85mm x 5.5mm (0.07 kg)	Each	216.84	216.84	213.63	216.84	216.84
b	100mmx85mm5.5mm (0.056 kg)	Each	195.48	195.48	195.48	195.48	195.48
c	75mmx65mmx4mm (0.02 kg)	Each	82.25	82.25	82.25	82.25	82.25
152	Brass tower bolt (Barrel type) (I.S.I.)						
a	250mm x 10-mm	Each	223.25	223.25	216.84	223.25	223.25
b	200mm x 10mm	Each	184.79	184.79	176.25	184.79	184.79
c	150mm x 10mm	Each	137.79	137.79	133.52	137.79	137.79
d	100mm x 10mm	Each	100.41	100.41	100.41	100.41	100.41
153	Brass Screws (I.S.I.)						
a	50mm	100 Nos	189.07	189.07	181.59	189.07	189.07



Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
b	40mm	100 Nos	170.91	170.91	165.57	170.91	170.91
c	30mm	100 Nos	147.41	147.41	144.20	147.41	147.41
d	25mm	100 Nos	131.38	131.38	128.18	131.38	131.38
e	20mm	100 Nos	97.20	97.20	95.07	97.20	97.20
154	Chromium plated fittings (Brass) (I.S.I.) Handle (I.S.I.)						
a	125mm with 175 x 32mm plate	Each	158.09	158.09	154.88	158.09	158.09
b	100mm with 150 x 25mm plate	Each	134.59	134.59	130.32	134.59	134.59
c	75mm with 125 x 25mm plate	Each	118.57	118.57	112.16	118.57	118.57
155	Wall cement primer (I.S.I.)						
a	Oil bound	1 ltr	116.95	116.95	111.99	116.95	116.95
b	Water bound	1 ltr	152.63	152.63	148.67	152.63	152.63
156	Aluminium paint (I.S.I.)	1 ltr	163.53	163.53	160.56	163.53	163.53
157	Weather Coat (I.S.I.)	1 ltr	190.29	190.29	190.29	190.29	190.29
158	Adhesive (I.S.I.)	1 Kg	212.46	212.46	207.64	212.46	212.46
159	Bitumenous expansion joint board (I.S.I.)						
a	12mm thick	Sqm	738.99	738.99	716.32	738.99	738.99
b	16mm thick	Sqm	1050.26	1050.26	999.75	1050.26	1050.26
c	25mm thick	Sqm	1360.49	1360.49	1293.49	1360.49	1360.49
160	Barbed wire (I.S.I.)	Kg	68.89	67.85	67.85	68.89	68.89
161	Glass plain (I.S.I.)						
a	3mm	Sqm	368.60	368.60	366.50	368.60	368.60
b	4mm	Sqm	419.91	419.91	418.86	409.44	419.91
c	5mm	Sqm	558.13	558.13	545.56	551.85	558.13
d	6mm	Sqm	633.53	586.40	628.29	633.53	633.53
e	8mm	Sqm	979.08	942.43	956.05	979.08	890.08
f	10mm	Sqm	1232.49	1151.86	1212.60	1232.49	1232.49
g	12mm	Sqm	1456.58	1340.35	1414.70	1456.58	1455.54
162	Glass pin headed (I.S.I.)						
a	4mm	Sqm	329.85	303.67	319.38	329.85	329.85
b	5mm	Sqm	414.67	376.97	407.34	414.67	413.62
163	Black glass (I.S.I.)						
a	4mm	Sqm	564.41	564.41	552.89	564.41	564.41
b	5mm	Sqm	679.60	679.60	663.89	679.60	679.60

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
c	6mm	Sqm	829.34	829.34	809.45	829.34	829.34
d	8mm	Sqm	1306.84	1306.84	1258.67	1306.84	1306.84
e	12mm	Sqm	2061.84	1895.34	2021.00	2026.23	2061.84
164	Frosted glass (I.S.I.)						
a	4mm	Sqm	552.89	552.89	544.52	548.71	552.89
b	5mm	Sqm	587.45	587.45	579.07	587.45	587.45
165	Wire glass – 6 mm (I.S.I.)	Sqm	684.84	684.84	675.41	684.84	684.84
166	Sun-control film (I.S.I.)						
a	Reflective	Sqm	610.49	610.49	594.78	610.49	610.49
b	Non-reflective	Sqm	437.71	437.71	424.10	437.71	437.71
167	Prelaminated particle board (standard type) (I.S.I.)						
a.	9mm	Sqm	631.52	574.11	629.43	631.52	631.52
b	12mm	Sqm	723.37	657.61	715.02	723.37	723.37
c	18mm	Sqm	803.75	730.68	788.09	793.31	803.75
d	25mm	Sqm	953.02	866.38	934.23	953.02	953.02
168	BWR ply wood (I.S.I.)						
a	3mm	Sqm	310.02	310.02	310.02	310.02	310.02
b	4mm	Sqm	361.17	361.17	360.12	361.17	360.12
c	6mm	Sqm	516.70	516.70	501.04	516.70	516.70
d	9mm	Sqm	636.74	636.74	624.21	636.74	636.74
e	12mm	Sqm	838.20	838.20	814.19	769.30	838.20
f	16mm	Sqm	998.95	991.64	958.24	998.95	998.95
g	19mm	Sqm	1171.18	1252.60	1127.34	1171.18	1171.18
h	25mm	Sqm	1676.39	1670.13	1615.85	1676.39	1676.39
169	BWR Block Board (I.S.I.)						
a	16mm	Sqm	884.12	884.12	845.50	884.12	884.12
b	19mm	Sqm	998.95	998.95	955.10	998.95	996.86
c	25mm	Sqm	1136.73	1136.73	1093.93	1136.73	1136.73
d	32mm	Sqm	1412.30	1412.30	1348.63	1412.30	1412.30
170	Vinyl Flooring (I.S.I.)						
(A)	Homogeneous Range (I.S.I.)						
i	PVC (MF) Classic roll-1.00mm thick	Sqm	296.17	269.24	291.36	292.32	296.17
ii	PVC (MF) classic tile-1.00mm thick	Sqm	338.47	307.70	336.55	337.51	338.47
iii	PVC (MF) impress roll-1.50mm thick	Sqm	391.36	355.78	384.63	388.48	391.36

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
iv	PVC (MF) impress tile-1.50mm thick	Sqm	470.21	427.90	459.63	470.21	470.21
v	PVC (MF) super roll-2.00mm thick	Sqm	524.06	476.94	508.67	524.06	524.06
vi	PVC (MF) super tile -2.00mm thick	Sqm	605.79	550.98	584.64	605.79	605.79
(B)	Heterogeneous Range (I.S.I.)						
i	PVC (MF) Hetro roll-2.00mm thick	Sqm	550.02	500.02	526.94	550.02	550.02
ii	PVC (MF) hetro tile-2.00mm thick	Sqm	624.06	567.33	599.06	624.06	624.06
171	Aluminium extruded section	Kg	301.70	301.70	301.70	299.42	301.70
172	Roll formed sections made of pre-painted steel ( base steel as per IS-513 of 0.6 mm thick "D" quality, galvanised as per IS-277 with zinc of 120 gm / sq. mtr)						
a	Outer frames Po-527	Mtr	373.71	339.73	367.13	373.71	373.71
b	Intermediate mullion Po-528	Mtr	415.35	378.09	405.49	415.35	415.35
c	Shutter frame Po-153	Mtr	313.43	284.94	304.66	313.43	313.43
d	Fixed beeding Po-179	Mtr	161.10	146.85	161.10	161.10	161.10
e	Sliding shutter Po-254	Mtr	192.88	175.35	192.88	192.88	192.88
f	Outer frames(side / top) Po-255	Mtr	234.53	213.70	230.14	234.53	234.53
g	Outer frames(bottom) Po-256	Mtr	162.20	147.95	158.91	162.20	162.20
h	Sliding track (SS) Po-257	Mtr	614.81	558.92	589.60	614.81	614.81
i	Sashbar Po-101	Mtr	578.64	526.04	561.11	574.26	578.64
j	Sashbar at shutter Po-107	Mtr	318.91	290.42	310.14	318.91	318.91
k	Louvered horizontal (Top/Bottom) Po-193A	Mtr	162.20	147.95	162.20	162.20	162.20
l	33 x 57 Box Section	Mtr	379.19	345.21	367.13	379.19	379.19
m	100x50mm Box Section	Mtr	566.59	515.08	556.72	566.59	566.59
n	Small Z Section	Mtr	277.27	252.06	273.98	277.27	277.27

Sl. No.	Name of items	Unit	Sambalpur	Balangir	Sundargarh	Dhenkanal	Keonjhar
o	Extended Z Section	Mtr	373.71	339.73	366.04	324.39	373.71
p	Cover Profile	Mtr	134.80	122.74	131.51	134.80	134.80
	<b>Accessories</b>						
a	sliding outer frame assembly / pc	Each	298.09	271.79	290.42	298.09	298.09
b	sliding shutter /pc	Each	367.13	334.25	359.46	367.13	367.13
c	Sashbar	Each	19.73	18.63	19.73	19.73	19.73
d	Wall fixing with polymide anchor at every 600mm c/c of outer frame	Each	31.78	29.59	31.78	31.78	31.78
e	Outer frame corner	Each	48.22	43.84	47.12	48.22	48.22
f	Top hung shutter / pc	Each	397.82	361.65	391.24	397.82	397.82
g	Fixed mullion	Each	60.28	54.80	59.18	60.28	60.28
h	Fixed glazing	Each	120.55	109.59	120.55	120.55	120.55
i	Louvered blade	Each	31.78	29.59	31.78	31.78	31.78
j	Side hung door / pc	Each	458.09	416.45	447.13	458.09	458.09
k	Door lock / pc	Each	409.87	372.61	394.53	409.87	409.87
l	Swing door shutter /pc	Each	229.05	208.22	219.18	229.05	229.05
m	Floor Spring (Godrej Make)	Each	3495.97	3178.15	3424.73	3495.97	3495.97
	<b>Gasket</b>						
a	For Shutter Po-153	Mtr	44.93	41.64	42.74	44.93	44.93
b	For beading Po-179	Mtr	60.28	54.80	58.08	60.28	58.08
c	For Sashbar Po-101	Mtr	126.03	115.07	122.74	126.03	126.03
173	Rate of 60 micron powder coating (including labour charges and material for powder coating) for aluminium section.	Kg of Aluminium	30.66	28.55	30.66	30.66	30.66
174	12.5 mm thick gypsum board of size 6' x 4'	One Piece	399.40	363.09	399.40	399.40	399.40

<b>Sl. No.</b>	<b>Name of items</b>	<b>Unit</b>	<b>Sambalpur</b>	<b>Balangir</b>	<b>Sundargarh</b>	<b>Dhenkanal</b>	<b>Keonjhar</b>
175	Waste Plastic duly cleaned and shredded conforming to the size passing 2.36mm sieve and retained on 600 micron seive and conforming to requirement if IRC:SP:98-2013.	Per Kg	36.80	36.80	36.80	36.80	36.80

**1.3 FOR UN-DIVIDED DISTRICTS OF SOUTHERN RDC DIVISION**

<b>Sl. No.</b>	<b>Name of items</b>	<b>Unit</b>	<b>Ganjam</b>	<b>Koraput</b>	<b>Kalahandi</b>	<b>Phulbani</b>
1	Well burnt clamp burnt bricks (25 Cm. x 12Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	3325.88	3824.76	3637.95	3824.76
2	Well burnt clamp burnt bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	3619.59	3619.59	3459.77	3619.59
3	K.B. bricks (25 Cm x 12Cm x 8Cm) having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	4339.84	4989.89	4763.13	4989.89
4	K.B. bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 8 percent.	1000 Nos	4393.83	4257.77	4262.09	4393.83
5	Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2 %	1000 Nos	4300.60	4758.44	4945.69	4730.66
6	Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2 %	1000 Nos	4115.40	4211.09	4225.49	4232.69
7	Fly ash blocks of 30 Cm. x 20 Cm. x 15 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2 %	Each	13.38	14.40	14.40	14.40

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
8	Cement concrete solid Block machine mixed and Hydraulic compressed having crushing strength not less than 75kg/cm <sup>2</sup>					
a.	400mm x 200mm x 200mm size	Each	24.69	27.65	27.65	27.65
b.	400mm x 150mm x 200mm size	Each	19.75	22.71	22.71	22.71
c.	400mm x 100mm x 150mm size	Each	13.82	15.80	15.80	15.80
d.	300mm x 200mm x 150mm size	Each	17.77	19.75	19.75	19.75
e.	300mm x 150mm x 150mm size	Each	12.84	13.82	13.82	13.82
f.	300mm x 100mm x 150mm size	Each	10.86	11.85	11.85	11.85
9	Cement concrete Hollow Blocks machine mixed and Hydraulic compressed having crushing strength not less than 70kg/cm <sup>2</sup>					
a.	400mm x 200mm x 200mm size	Each	23.70	26.66	26.66	26.66
b.	400mm x 150mm x 200mm size	Each	15.80	17.77	17.77	17.77
c.	400mm x 100mm x 200mm size	Each	13.82	15.80	15.80	15.80
d.	300mm x 200mm x 150mm size	Each	13.82	15.80	15.80	15.80
e.	300mm x 150mm x 150mm size	Each	11.85	12.84	12.84	12.84
f.	300mm x 100mm x 150mm size	Each	8.89	9.87	9.87	9.87
10	K.B. bricks Khoa 4 Cm.size	1 Cum	373.62	350.94	373.62	373.62
11	Clamp burnt brick Khoa 4 cm. size.	1 Cum	304.51	300.19	304.51	304.51
12	Surki of clamp burnt bricks.	1 Cum	496.72	472.97	516.16	516.16

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
13	Surki of Kiln burnt bricks.	1 Cum	529.12	523.72	538.84	538.84
14	Screen washed gravel for concrete (12mm. to 20mm.)	1 Cum	184.26	188.07	188.07	188.07
15	Gravel or moorum	1 Cum	63.54	63.54	63.54	63.54
16	Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	1 Cum	125.79	125.79	125.79	125.79
17	River single or Bajri (12mm. to 20mm.)	1 Cum	151.22	149.95	151.22	151.22
18	Screened and washed sharp sand for mortar	1 Cum	74.97	74.97	74.97	74.97
19	Sand for filling and road blinding	1 Cum	71.16	71.16	71.16	71.16
20	Clay mortar for masonry work with admixture of sand.	1 Cum	64.81	64.81	64.81	64.81
21	Stone lime unslaked.	1 Kg.	19.76	19.76	19.76	19.76
22	Ghooting lime unslaked.	1 Kg.	24.41	24.41	24.41	24.41
23	Shell lime unslaked.	1 Kg.	22.08	22.08	22.08	22.08
24 a	Granite broken stone of size not less than 0.0025 Cum. Stacked	1 Cum.	320.93	320.93	320.93	320.93
b	Granite stone of size not less than 0.0025 Cum. picked up.	1 Cum.	262.68	262.68	262.68	262.68
25	Stone other than granite quarried, broken and staked 0.0015 Cum to 0.003 Cum	1 Cum.	246.59	246.59	246.59	246.59
26	Stone other than granite picked up and staked 0.0015 Cum. to 0.003 Cum	1 Cum.	242.86	242.86	242.86	242.86
27	Stone other than granite quarried, broken and staked above 0.003 Cum	1 Cum.	241.61	241.61	241.61	241.61



Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
28	Stone other than granite picked up, broken and staked above 0.003 Cum	1 Cum.	244.10	244.10	244.10	244.10
29	Granite Stone broken metal 63mm. size Passing through 90mm. Sieve and retained on 53 mm sieve.					
a	Crusher broken.	1 Cum.	902.94	926.60	885.50	926.60
b	Hand broken.	1 Cum.	703.67	703.67	703.67	703.67
30	Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve)					
a	Crusher broken.	1 Cum.	971.43	971.43	916.64	971.43
b	Hand broken.	1 Cum.	737.29	737.29	673.78	737.29
31	Granite Stone broken metal 40mm. size	1 Cum.				
a	Crusher broken.	1 Cum.	983.89	1003.82	947.77	1003.82
b	Hand broken.	1 Cum.	803.30	803.30	758.47	803.30
32	Granite Stone broken metal 26.5mm. size (Passing through 45mm sieve & retained on 22.4mm sieve)					
a	Crusher broken.	1 Cum.	1058.61	1066.09	1066.09	1066.09
b	Hand broken.	1 Cum.	815.76	815.76	815.76	815.76
33	Granite Stone broken metal 25mm. size (Passing through 40mm sieve & retained on 20mm sieve)					
a	Crusher broken.	1 Cum.	1093.49	1093.49	1093.49	1093.49
b	Hand broken.	1 Cum.	875.54	875.54	875.54	875.54

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
34	Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve)					
a	Crusher broken.	1 Cum.	1120.89	1140.81	1140.81	1140.81
b	Hand broken.	1 Cum.	917.88	917.88	917.88	917.88
35	Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve)					
a	Crusher broken.	1 Cum.	1428.51	1428.51	1368.73	1428.51
b	Hand broken.	1 Cum.	1157.00	1157.00	1145.79	1157.00
36	Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve)					
a	Crusher broken.	1 Cum.	1438.47	1438.47	1373.71	1438.47
b	Hand broken.	1 Cum.	1175.68	1175.68	1154.51	1175.68
37	Granite Stone broken chips 12mm. size (Minimum 65% by Wt. Passing through 13.2mm sieve & retained on 9.50mm sieve but whole should pass through 19mm sieve)					
a	Crusher broken.	1 Cum.	1475.83	1475.83	1391.14	1475.83
b	Hand broken.	1 Cum.	1194.37	1194.37	1163.23	1194.37
38	Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve)					
a	Crusher broken.	1 Cum.	1551.80	1551.80	1427.26	1551.80
b	Hand broken.	1 Cum.	1215.54	1215.54	1173.19	1215.54

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
39	Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve)					
a	Crusher broken.	1 Cum.	1561.77	1561.77	1432.24	1561.77
b	Hand broken.	1 Cum.	1215.54	1215.54	1173.19	1215.54
(A)	Granite Stone broken chips 6.7mm size (Passing through 11.2mm sieve & retained on 2.8mm sieve)	1 Cum.	983.89	1013.78	1013.78	1013.78
(B)	Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	1 Cum.	871.80	909.16	905.43	914.14
40	Granite stone broken chips of 4.7 mm size passing through 6.7 mm sieve (crusher broken.) and retained on 2.36 mm sieve.	1 Cum.	902.94	927.84	932.83	939.05
41	Stone other than granite broken to 5cm. size.	1 Cum.	361.17	361.17	361.17	361.17
42	Stone other than granite broken to 4 cm. size.	1 Cum.	377.36	377.36	377.36	377.36
43	Stone other than granite broken to 2 cm. size.	1 Cum.	386.08	408.50	408.50	408.50
44	Stone other than granite broken to 1cm. size.	1 Cum.	410.99	440.88	440.88	440.88
45	Stone boulder 15cm. & above size granite picked up and nullah boulders.	1 Cum.	173.11	173.11	173.11	173.11
46	Soiling stone boulder 15Cm. & above size picked up nullah boulders broken.	1 Cum.	204.25	204.25	204.25	204.25

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
47	Stone boulder 15cm. & above size other than granite or laterite picked up and nullah boulders.	1 Cum.	165.64	165.64	165.64	165.64
48	Soiling stone boulder 15Cm. & above size other than granite or laterite picked up nullah boulders broken.	1 Cum.	184.32	184.32	184.32	184.32
49	Soling stone boulders 10 Cm. size picked up other than granite.	1 Cum.	168.13	168.13	168.13	168.13
50	Hard broken soling stone other than granite (40mm. to 90mm.)	1 Cum.	267.77	267.77	267.77	267.77
51	I.R.C. Grade I (90mm-45 mm.)	1 Cum.	834.44	834.44	834.44	834.44
52	I.R.C. Grade II (63mm. to 45mm.)	1 Cum.	924.11	887.99	924.11	924.11
53	I.R.C. Grade III (53mm. to 22.4mm.)	1 Cum.	1000.08	1000.08	1000.08	1000.08
54	Laterite soling stone 23Cm. size	1 Cum.	151.93	151.93	151.93	151.93
55	Laterite Stone rough dressed	1 Cum.	860.46	863.15	863.15	863.15
56	Bamboo mat or talai.	1 Sqm.	127.00	124.00	123.50	120.00
57	Bamboo 1ST class 7Cm. to 10Cm. dia & above 6m. long.	Each	73.33	80.00	80.00	73.33
58						
a	Belongi Bomboo 2.51 Cm. to 4Cm. dia & above 5m. long.	Each	29.33	34.67	34.67	29.33
b	Belongi Bomboo above 4Cm. dia & up to 7Cm. dia & above 5m. long.	Each	33.50	42.50	42.50	33.50
59	Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	1Mtr	51.87	51.87	51.87	51.87
60	Sal bullahs 150mm. to 200mm. mean dia up to 5.5m. long.	1Mtr	124.26	124.26	124.26	124.26

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
61	Sal bullahs above 200mm. & up to 250mm. mean dia & up to 2.75m. long.	1Cum.	18069.75	18069.75	18069.75	18069.75
62	Sal bullahs above 200mm. & up to 250mm. mean dia above 2.75m. long & up to 4.75m. long.	1Cum.	22474.75	22474.75	22474.75	22474.75
63	Sal bullahs above 200mm. & up to 250mm. mean dia above 4.75m. long	1Cum.	26849.00	26849.00	26849.00	26849.00
64	Sal bullahs above 250mm. & up to 380mm. mean dia & up to 2.75m. long	1Cum.	29736.50	29736.50	29736.50	29736.50
65	Sal bullahs above 250mm. & up to 380mm. mean dia & above 2.75m. long up to 4.75m. long	1Cum.	36622.50	36622.50	36622.50	36622.50
66	Sal bullahs above 250mm. & up to 380mm. mean dia & above 4.75m. long.	1Cum.	42542.67	42542.67	42542.67	42542.67
67	Non-sal bullahs 75mm. mean dia of any length.	1Mtr.	30.81	30.81	30.81	30.81
68	Non-sal bullahs 100mm. mean dia of any length.	1Mtr.	41.81	41.81	41.81	41.81
69	Non-sal bullahs 125mm. mean dia of any length.	1Mtr.	41.81	41.81	41.81	41.81
70	Non-Sal bullahs 150mm. to 200mm. mean dia of any length.	1Mtr.	67.82	67.82	67.82	67.82
71	Non-Sal bullahs above 200mm. & up to 250mm. mean dia up to 2.5m. long.	1Cum.	18070.06	18070.06	18070.06	18070.06
72	Non-Sal bullahs above 200mm. & up to 250mm. mean dia above 2.5m. long.	1Cum.	24643.33	24643.33	24643.33	24643.33

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
73	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & up to 2.75m. long.	1Cum.	53035.75	53035.75	53035.75	53035.75
74	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & above 2.75m. long.	1Cum.	71150.50	71150.50	71150.50	71150.50
75	Seasoned Sal wood beam of cross sectional area not less than 150Sq.cm. & least lateral dimension 100mm. & above 2.75m. long.	1Cum.	65533.50	65533.50	65533.50	65533.50
76	Seasoned Sal wood planks not more than 75mm. thick & not less than 200mm. width.	1Cum.	63839.00	63839.00	63839.00	63839.00
77	Seasoned Piasal wood planks for shutters.	1Cum.	74369.67	74369.67	74369.67	74369.67
78	Seasoned Teak wood planks for shutters.	1Cum.	114414.94	114414.94	114414.94	114414.94
79	Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	1Cum.	58374.79	58374.79	58374.79	58374.79
80	Non-Sal reapers.	1Cum.	13268.45	13268.45	13268.45	13268.45
81	Fire wood	1Qntl	660.00	599.00	450.00	720.00
82	1St class Raniganj or Mangalore pattern tiles.	100 Nos.	1059.00	1026.03	1007.05	1015.04
83	Ridges of Raniganj or Mangalore parttern tiles.	100 Nos.	1648.44	1677.41	1576.51	1604.48
84	Flat tiles(14Cm. x14 Cm.x 1Cm. )	1000 Nos.	324.69	327.69	317.70	314.70
85	Flat tiles (15Cm x15Cmx 1.2 Cm )	1000 Nos.	349.67	353.67	344.67	338.68
86	Flat tiles (30Cm. x 15 Cm.x 2.5 Cm. )	1000 Nos.	1478.60	1416.66	1381.69	1414.66

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
87	Flat tiles (30Cm. x 30 Cm.x 2.5 Cm. )	1000 Nos.	1696.40	1615.47	1561.52	1623.46
88	Pan tiles	1000 Nos.	348.67	348.67	348.67	333.68
89	Nuria tiles (20Cm. to 25Cm.)	1000 Nos.	779.26	795.25	755.29	761.28
90	Nuria tiles (25Cm. to 30Cm.)	1000 Nos.	949.10	927.12	928.12	916.13
91	Ridge tiles	1000 Nos.	1073.98	1040.02	1022.03	1044.01
92	Marble Tiles of minimum 16 mm thick, dunguri Variety.					
a	Up to 0.10 Sqm.	1 Sqm.	495.67	539.29	539.29	539.29
b	Above 0.10 Sqm. to 0.40 Sqm.	1 Sqm.	659.24	659.24	659.24	659.24
c	Above 0.4 Sqm. to 1.00 Sqm.	1 Sqm.	743.50	743.50	738.55	743.50
93	Kota Tiles of minimum 16 mm thick					
a	Up to 0.10 Sqm.	1 Sqm.	362.83	398.52	398.52	398.52
b	Above 0.10 Sqm.	1 Sqm.	446.10	486.75	486.75	486.75
94	Khandolites (Up to 0.06 Sqm.)	1 Sqm.	312.27	312.27	312.27	312.27
95	Granite Tiles					
a	Up to 0.10 Sqm. (10mm thick)	1 Sqm.	1057.76	1162.84	1162.84	1162.84
b	Above 0.10 Sqm					
i	Above 0.10 Sqm & up to 0.4 sqm (10mm. thick)	1 Sqm.	1169.78	1319.47	1299.64	1319.47
ii	Above 0.40 sqm. (20mm thick)	1 Sqm.	1665.45	2071.90	2027.29	2071.90
96	Kodappa Tiles of 10 mm thick					
a	Above 0.1 Sqm & Up to 0.40 Sqm.	1 Sqm.	299.38	299.38	299.38	299.38
b	Above 0.40 Sqm.	1 Sqm.	359.86	359.86	359.86	359.86
97	Dholpuri Stone Tiles.	1 Sqm.	395.54	395.54	198.27	395.54

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
98	Tiles up to-					
a	20cmx30cm / 20cm x 20cm special plain /printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753	1 Sqm.	336.12	369.54	369.54	369.54
b	30cm x 30cm / 40cm x 40cm special plain / printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755	1 Sqm.	381.95	409.64	409.64	409.64
c	Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15622:2006 (Group-B 1a) of following sizes.					
i.	Vitrified Tile 600mmx600mm Plain (Ivory)	1 Sqm.	577.70	635.00	635.00	635.00
ii.	Vitrified Tile 600mmx600mm Coloured / Printed series (Homogeneous)	1 Sqm.	693.24	693.24	693.24	693.24
d	Vitrified industrial floor Tile of premium grade having thickness 8mm to 10mm confirming to IS 4457 of size 300mmx300mm	1 Sqm.	525.19	577.70	577.70	577.70
99	Chequered Tiles.	1 Sqm.	216.79	216.79	216.79	216.79
100	Terrazo Tiles.					
a	With grey cement.	1 Sqm.	245.85	245.85	245.85	245.85
b	With white cement	1 Sqm.	291.45	291.45	291.45	291.45
101	Red oxide Primer	1 Litre	127.85	127.85	127.85	127.85
102	Wood Primer	1 Litre	144.70	144.70	144.70	144.70
103	Wood Shine Paint	1 Litre	157.59	157.59	157.59	157.59
104	Plastic Emulsion paint	1 Litre	246.78	246.78	246.78	246.78
105	Enamel paint	1 Litre	191.28	191.28	191.28	191.28



Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
106	Distemper	1 Kg.	65.41	65.41	65.41	65.41
107	Cement paint	1 Kg.	44.60	45.59	45.59	45.59
108	Red oxide powder	1 Kg.	114.97	114.97	114.97	114.97
109	French polish	1 Litre	163.53	163.53	163.53	163.53
110	Varnish	1 Litre	157.59	157.59	157.59	157.59
111	Plaster of paris	1 Kg.	12.45	12.45	12.45	12.45
112	Coal Tar	1 Kg.	47.13	47.13	47.13	47.13
113	G.C.I. Sheet					
a	0.30mm thick	1 Sqm.	312.34	312.34	312.34	312.34
b	0.40mm thick	1 Sqm.	318.89	318.89	318.89	318.89
114	A.C. Sheet	1 Sqm.	207.48	207.48	207.48	207.48
115	A.C. ridges	1 pair	195.03	195.03	195.03	195.03
116	6mm. Thick Plain A.C. Sheet	1 Sqm	239.64	239.64	239.64	239.64
117	Tar Paper	1 Sqm	18.21	18.21	18.21	18.21
118	Putty (Wood)	1 Kg.	27.75	27.75	27.75	27.75
119	Putty (Iron)	1 Kg.	98.12	98.12	98.12	98.12
120	Wire Nails	1 Kg.	69.33	69.33	69.33	69.33
121	M.S. Angle	1 Qntl.	Rate as fixed by SAIL			
122	M.S. Channel	1 Qntl.				
123	Bolt, Nut & Washers	1 Kg.	82.32	82.32	82.32	81.25
124	Holding down bolts minimum 60 Cm. long with 15Cm. x 15 Cm. x 6mm. size washer plate	1 Kg.	79.11	79.11	79.11	78.04
125	Binding Wire.	1 Kg.	91.28	91.28	91.28	90.13
126	Coir String	1 Kg.	53.23	53.23	53.23	52.07
127	Empty Cement bags (HDPE) by lot & not shorted out	100 nos	349.00	383.90	383.90	376.92
b	Empty Cement gunny bags by lot & not shorted out	100 nos	349.00	383.90	383.90	376.92
c	Empty Bitumen Drum	Each	131.62	131.62	131.62	129.63
d	Empty Bitumen Emulsion Drum	Each	252.28	244.30	252.28	247.29
128	Straw in Bundle	100 nos	274.22	274.22	274.22	269.23
129	Marble Chips.	1qntl	549.78	665.24	665.24	653.14

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
130	Marble Powder	1qntl	387.05	387.05	387.05	380.45
131	Cement		Approved factory price of three manufactures of cement inside the State			
a	33 Grade	1qntl				
b	43 Grade	1qntl				
c	53 Grade	1qntl				
132	White Cement.	1qntl	1997.00	1997.00	1997.00	1997.00
133	Steel		Rate as Fixed by SAIL			
a	Mild Steel	1qntl				
b	HYSD (Fe-415) / (Fe500)	1qntl				
134	“Z” type Steel Sheet Piles	1qntl	6051.64	6051.64	6051.64	6051.64
135	Bentonite powder	1qntl	331.77	331.77	331.77	331.77
136	Oxidized mild steel fittings (I.S.I.)					
	Butt hinges (I.S.I.)					
a	50x37x1.50mm	Each	6.41	6.41	6.41	6.41
b	75x47x0.70mm	Each	8.55	8.55	6.41	6.41
c	100x58x1.90mm	Each	14.97	14.97	14.97	14.97
d	125x65x2.12mm	Each	23.52	23.52	23.52	23.52
137	M.S. aldrop (I.S.I.)					
a	250x16mm	Each	89.03	91.01	91.01	91.01
b	300x16mm	Each	97.93	97.93	97.93	97.93
138	M.S. handle (I.S.I.)					
a	100mm	Each	13.85	13.85	13.85	13.85
b	125mm	Each	15.83	15.83	15.83	15.83
c	150mm	Each	19.78	19.78	19.78	19.78
139	M.S. tower bolt (I.S.I.)					
a	100x10mm	Each	16.82	16.82	16.82	16.82
b	150x10mm	Each	25.72	25.72	25.72	25.72
c	200x10mm	Each	33.63	33.63	33.63	33.63
140	M/S. Screw (I.S.I.)					
a	12x3mm	100 pcs	28.69	28.69	28.69	28.69
b	12x4mm	100 pcs	32.64	32.64	32.64	32.64
c	20x4mm	100 pcs	36.60	36.60	36.60	36.60
d	20x5mm	100 pcs	38.58	38.58	38.58	38.58
e	25x4mm	100 pcs	40.56	40.56	40.56	40.56
f	25x5mm	100 pcs	46.49	46.49	46.49	46.49

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
g	30x4mm	100 pcs	48.47	48.47	48.47	48.47
h	30x5mm	100 pcs	50.45	50.45	50.45	50.45
i	30x6mm	100 pcs	54.41	54.41	54.41	54.41
j	35x6mm	100 pcs	57.37	57.37	57.37	57.37
k	35x7mm	100 pcs	60.34	60.34	60.34	60.34
l	35x8mm	100 pcs	70.23	70.23	70.23	70.23
m	50x7mm	100 pcs	77.16	77.16	77.16	77.16
n	50x8mm	100 pcs	81.12	81.12	81.12	81.12
141	Steel window stay bar (I.S.I.)					
a	200mm	Each	25.35	25.35	25.35	25.35
b	250mm	Each	30.42	30.42	30.42	30.42
c	300mm	Each	37.52	36.50	37.52	37.52
142	Steel window handle including Nut, bolt & washer (I.S.I.)					
a	100mm	Each	20.28	20.28	20.28	20.28
b	150mm	Each	26.36	26.36	26.36	26.36
143	Welded mesh					
a	25mmx25mmx11 gauge	Sqm	202.08	202.08	202.08	202.08
b	25mmx25mmx13 gauge	Sqm	184.97	186.04	186.04	186.04
c	50mmx25mmx11 gauge	Sqm	186.04	186.04	186.04	186.04
d	50mmx25mmx13 gauge	Sqm	170.00	170.00	170.00	170.00
144	G.I. "L" & "J" hook	Kg	76.26	76.26	76.26	76.26
145	W.I clamp	Kg	79.30	79.30	79.30	79.30
146	Aluminium fittings (I.S.I.)					
	Butt hinges (I.S.I.)					
a	125mmx75mmx4mm	Each	70.56	70.56	70.56	70.56
b	125mmx63mmx4mm	Each	58.80	58.80	58.80	58.80
c	100mmx75mmx4mm	Each	54.52	54.52	54.52	54.52
d	100mmx63mmx4mm	Each	52.38	52.38	52.38	52.38
e	75mmx63mmx4mm	Each	35.28	35.28	35.28	35.28
f	50mmx35mmx3.2mm	Each	13.90	13.90	13.90	13.90
147	Aluminium handle (I.S.I.)					
a	150mm with 175mm x 40mm flat	Each	29.61	29.61	29.61	29.61

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
b	125mm with 175mm x 40mm flat	Each	29.61	27.49	29.61	29.61
c	100mm with 150mm x 33m flat	Each	28.55	28.55	28.55	28.55
d	75mm with 118mm x 33mm flat	Each	27.49	27.49	27.49	27.49
148	Aluminium tower bolt (Barrel type) (I.S.I.)					
a	300mm x 10mm	Each	69.78	69.78	69.78	69.78
b	250mm 10mm	Each	63.44	63.44	63.44	63.44
c	200mm x 10mm	Each	57.10	58.15	58.15	58.15
d	150mm x 10mm	Each	48.64	48.64	48.64	48.64
e	100mm x 10mm	Each	39.12	39.12	39.12	39.12
149	Sliding door bolt (Aldrop) (I.S.I.)					
a	300mm x 16mm	Each	232.61	232.61	232.61	232.61
b	250mm x 16mm	Each	220.98	220.98	220.98	220.98
150	Brass fittings (I.S.I.) Butt hinges (light/Ordinary) (I.S.I.)					
a	125mm x 70mm x 4mm	Each	70.50	70.50	70.50	70.50
b	100mm x 70mm x 4mm	Each	52.34	52.34	52.34	52.34
c	75mm x 40mm x 2.5mm	Each	38.45	38.45	38.45	38.45
d	50mm x 40mm x 2.5mm	Each	19.23	19.23	19.23	19.23
151	Brass But hinges (Heavy type) (I.S.I.)					
a	125mm x 85mm x 5.5mm (0.07 kg)	Each	216.84	216.84	216.84	216.84
b	100mmx85mm5.5mm (0.056 kg)	Each	195.48	195.48	195.48	195.48
c	75mmx65mmx4mm (0.02 kg)	Each	82.25	82.25	82.25	82.25
152	Brass tower bolt (Barrel type) (I.S.I.)					
a	250mm x 10-mm	Each	223.25	223.25	223.25	223.25
b	200mm x 10mm	Each	184.79	184.79	184.79	184.79
c	150mm x 10mm	Each	137.79	137.79	137.79	137.79
d	100mm x 10mm	Each	100.41	100.41	100.41	100.41

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
153	Brass Screws (I.S.I.)					
a	50mm	100 Nos	189.07	189.07	189.07	189.07
b	40mm	100 Nos	170.91	170.91	170.91	170.91
c	30mm	100 Nos	147.41	147.41	147.41	147.41
d	25mm	100 Nos	131.38	131.38	131.38	131.38
e	20mm	100 Nos	97.20	97.20	97.20	97.20
154	Chromium plated fittings (Brass) (I.S.I.) Handle (I.S.I)					
a	125mm with 175 x 32mm plate	Each	158.09	158.09	158.09	158.09
b	100mm with 150 x 25mm plate	Each	134.59	134.59	134.59	134.59
c	75mm with 125 x 25mm plate	Each	118.57	118.57	118.57	118.57
155	Wall cement primer (I.S.I.)					
a	Oil bound	1 ltr	116.95	116.95	116.95	116.95
b	Water bound	1 ltr	138.75	152.63	152.63	152.63
156	Aluminium paint (I.S.I.)	1 ltr	163.53	163.53	163.53	163.53
157	Weather Coat (I.S.I.)	1 ltr	190.29	190.29	190.29	190.29
158	Adhesive (I.S.I.)	1 Kg	212.46	212.46	212.46	212.46
159	Bitumenous expansion joint board (I.S.I.)					
a	12mm thick	Sqm	721.47	733.84	738.99	738.99
b	16mm thick	Sqm	979.14	1050.26	1050.26	1050.26
c	25mm thick	Sqm	1360.49	1360.49	1360.49	1360.49
160	Barbed wire (I.S.I.)	Kg	68.89	68.89	68.89	68.89
161	Glass plain (I.S.I.)					
a	3mm	Sqm	345.56	368.60	368.60	368.60
b	4mm	Sqm	397.92	419.91	419.91	419.91
c	5mm	Sqm	534.05	558.13	558.13	558.13
d	6mm	Sqm	607.35	633.53	633.53	633.53
e	8mm	Sqm	942.43	979.08	979.08	979.08
f	10mm	Sqm	1204.22	1232.49	1232.49	1232.49
g	12mm	Sqm	1456.58	1456.58	1456.58	1456.58
162	Glass pin headed (I.S.I.)					
a	4mm	Sqm	329.85	328.80	329.85	329.85
b	5mm	Sqm	414.67	414.67	414.67	414.67

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
163	Black glass (I.S.I.)					
a	4mm	Sqm	564.41	564.41	564.41	564.41
b	5mm	Sqm	679.60	679.60	679.60	679.60
c	6mm	Sqm	829.34	829.34	829.34	829.34
d	8mm	Sqm	1256.58	1306.84	1306.84	1306.84
e	12mm	Sqm	2041.94	2061.84	2061.84	2061.84
164	Frosted glass (I.S.I.)					
a	4mm	Sqm	523.57	552.89	552.89	552.89
b	5mm	Sqm	587.45	587.45	587.45	587.45
165	Wire glass – 6 mm (I.S.I.)	Sqm	659.70	684.84	684.84	684.84
166	Sun-control film (I.S.I.)					
a	Reflective	Sqm	602.11	610.49	610.49	610.49
b	Non-reflective	Sqm	437.71	437.71	437.71	437.71
167	Prelaminated particle board (standard type) (I.S.I.)					
a.	9mm	Sqm	626.30	631.52	631.52	631.52
b	12mm	Sqm	723.37	723.37	723.37	723.37
c	18mm	Sqm	803.75	803.75	803.75	803.75
d	25mm	Sqm	939.45	953.02	953.02	953.02
168	BWR ply wood (I.S.I.)					
a	3mm	Sqm	310.02	310.02	310.02	310.02
b	4mm	Sqm	361.17	361.17	361.17	361.17
c	6mm	Sqm	516.70	516.70	516.70	516.70
d	9mm	Sqm	636.74	636.74	636.74	636.74
e	12mm	Sqm	835.06	838.20	838.20	838.20
f	16mm	Sqm	991.64	998.95	998.95	998.95
g	19mm	Sqm	1171.18	1171.18	1171.18	1171.18
h	25mm	Sqm	1670.13	1676.39	1676.39	1676.39
169	BWR Block Board (I.S.I.)					
a	16mm	Sqm	884.12	884.12	884.12	884.12
b	19mm	Sqm	998.95	998.95	998.95	998.95
c	25mm	Sqm	1136.73	1136.73	1136.73	1136.73
d	32mm	Sqm	1412.30	1412.30	1412.30	1412.30
170	Vinyl Flooring (I.S.I.)					
(A)	Homogeneous Range (I.S.I.)					
i	PVC (MF) Classic roll-1.00mm thick	Sqm	296.17	296.17	296.17	296.17

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
ii	PVC (MF) classic tile-1.00mm thick	Sqm	338.47	338.47	338.47	338.47
iii	PVC (MF) impress roll-1.50mm thick	Sqm	391.36	391.36	391.36	391.36
iv	PVC (MF) impress tile-1.50mm thick	Sqm	470.21	470.21	470.21	470.21
v	PVC (MF) super roll-2.00mm thick	Sqm	524.06	516.37	524.06	524.06
vi	PVC (MF) super tile -2.00mm thick	Sqm	605.79	604.83	605.79	605.79
(B)	Heterogeneous Range (I.S.I.)					
i	PVC (MF) Hetro roll-2.00mm thick	Sqm	528.87	550.02	550.02	550.02
ii	PVC (MF) hetro tile- 2.00mm thick	Sqm	576.94	624.06	624.06	624.06
171	Aluminium extruded section	Kg	301.70	301.70	301.70	301.70
172	Roll formed sections made of pre-painted steel ( base steel as per IS-513 of 0.6 mm thick "D" quality, galvanised as per IS-277 with zinc of 120 gm / sq. mtr)					
a	Outer frames Po-527	Mtr	373.71	373.71	373.71	373.71
b	Intermediate mullion Po-528	Mtr	415.35	415.35	415.35	415.35
c	Shutter frame Po-153	Mtr	313.43	313.43	313.43	313.43
d	Fixed beeding Po-179	Mtr	161.10	161.10	161.10	161.10
e	Sliding shutter Po-254	Mtr	192.88	192.88	192.88	192.88
f	Outer frames(side / top) Po-255	Mtr	230.14	234.53	234.53	234.53
g	Outer frames(bottom) Po-256	Mtr	162.20	162.20	162.20	162.20
h	Sliding track (SS) Po-257	Mtr	614.81	614.81	614.81	614.81
i	Sashbar Po-101	Mtr	578.64	578.64	578.64	578.64
j	Sashbar at shutter Po-107	Mtr	318.91	318.91	318.91	318.91
k	Louvered horizontal (Top/Bottom) Po-193A	Mtr	162.20	162.20	162.20	162.20

Sl. No.	Name of items	Unit	Ganjam	Koraput	Kalahandi	Phulbani
l	33 x 57 Box Section	Mtr	379.19	379.19	379.19	379.19
m	100x50mm Box Section	Mtr	566.59	566.59	566.59	566.59
n	Small Z Section	Mtr	277.27	277.27	277.27	277.27
o	Extended Z Section	Mtr	373.71	373.71	373.71	373.71
p	Cover Profile	Mtr	134.80	134.80	134.80	134.80
	<b>Accessories</b>					
a	sliding outer frame assembly / pc	Each	298.09	298.09	298.09	298.09
b	sliding shutter /pc	Each	367.13	367.13	367.13	367.13
c	Sashbar	Each	19.73	19.73	19.73	19.73
d	Wall fixing with polymide anchor at every 600mm c/c of outer frame	Each	31.78	31.78	31.78	31.78
e	Outer frame corner	Each	48.22	48.22	48.22	48.22
f	Top hung shutter / pc	Each	394.53	397.82	397.82	397.82
g	Fixed mullion	Each	60.28	60.28	60.28	60.28
h	Fixed glazing	Each	120.55	120.55	120.55	120.55
i	Louvered blade	Each	31.78	31.78	31.78	31.78
j	Side hung door / pc	Each	458.09	458.09	458.09	458.09
k	Door lock / pc	Each	409.87	409.87	409.87	409.87
l	Swing door shutter /pc	Each	229.05	229.05	229.05	229.05
m	Floor Spring (Godrej Make)	Each	3397.34	3495.97	3495.97	3495.97
	<b>Gasket</b>					
a	For Shutter Po-153	Mtr	44.93	44.93	44.93	44.93
b	For beading Po-179	Mtr	60.28	60.28	60.28	60.28
c	For Sashbar Po-101	Mtr	126.03	126.03	126.03	126.03
173	Rate of 60 micron powder coating (including labour charges and material for powder coating) for aluminium section.	Kg of Aluminium	30.66	30.66	30.66	30.66
174	12.5 mm thick gypsum board of size 6' x 4'	One Piece	399.40	399.40	399.40	399.40



<b>Sl. No.</b>	<b>Name of items</b>	<b>Unit</b>	<b>Ganjam</b>	<b>Koraput</b>	<b>Kalahandi</b>	<b>Phulbani</b>
175	Waste Plastic duly cleaned and shredded conforming to the size passing 2.36mm sieve and retained on 600 micron seive and conforming to requirement if IRC:SP:98-2013.	Per Kg	36.80	36.80	36.80	36.80

**1.4 NEW MISCELLANEOUS MATERIALS:**

Sl No.	Description of Items	Dia of Bar in mm	Rate (Rs.)
1	<b>Epoxy Coating</b> Providing fusion bonded epoxy coating not less than 175 micron thickness and upto 300 micron to reinforcement of all diameters as per I.S 13620-1993 including testing of coating at plant	32 mm	6851.09
		28 mm	7991.45
		25 mm	8344.47
		20 mm	9817.07
		16 mm	10916.77
		12 mm	11387.79
		10 mm	12437.32
		08 mm	14838.31

**NOTES:**

1. Epoxy Coating will be adopted only for the structures within a distance of 15 K.M from seashore as per orders of Government in respective Department and the rate approved will be effective for one year from the date of approval and subject to condition that the concerned company will set up a plant in one of the coastal Districts of Odisha within that period.
2. The rate will be valid for one financial year and will be reviewed after one year

Sl. No	Description of Item	Unit	Rate (Rs.)
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
2	All Weather Road Repairing Compound Instant All weather road repairing compound of approved make including monsoon having composition of Aggregates having sieve sizes of 8 mm & down, Bitumen having less of wax content-Anti stripping compound, White spirit, Polymer and Cement.	Kg	Rates provided by OSIC from time to time.

**NOTES:**

1. All the above rates under miscellaneous items are inclusive of overhead charges, contractor's profit and labour welfare cess but excluding GST as applicable as per Government Notification from time to time.

Sl. No	Description of Items	Unit	Rate (Rs.)
1	2	3	4
3	Aerated Autoclaved Fly ash (AAC) blocks of different sizes having compressive strength not less than 4N/mm <sup>2</sup> conforming to IS:2185 (Part - 3) - 2005 and IS:6441-1972.	1 Cum.	2650.00
4	6mm thick poly carbonate sheet of approved design and quality conforming to IS 14443:1997	1 Sqm.	2141.30
5	12mm thick poly carbonate sheet of approved design and quality conforming to IS 14443:1997	1 Sqm.	3521.20
6	Waterproofing Latex compound for mortar of approved manufacturer.	1 Kg	460.00
7	Glass fiber net of 120 gsm of approved manufacturer for waterproofing treatment.	1 Sqm.	52.40
8	Resin based chemical compound of approved manufacturer for jointing old and new concrete.	1 Kg.	235.00
9	Acrylic based multipurpose polymer of approved make.	1 Kg.	370.00
10	Epoxy based tile grout of approved shade, and approved make.	1 Kg.	725.10
11	Texture paint of approved make and shade for 0.5 mm thick to External walls.	1 Kg.	61.20
12	50mm thick Glass wool sheets of approved make	1 Sqm.	1119.70
13	4mm thick Cement fibre board of approved make.	1 Sqm.	210.00
14	12mm thick Cement fibre board of approved make.	1 Sqm.	360.10
15	Toughened Glass of 6mm thick approved make and approved shade.	1 Sqm.	1399.35
16	Toughened Glass of 12mm thick approved make and approved shade.	1 Sqm.	1750.00
17	Vitrified Floor Tile 600mm x 1200mm size of approved shade and make (Single Charge)	1 Sqm.	591.80
18	Vitrified Floor Tile 1200mm x 1800mm size of approved shade and make (Single Charge)	1 Sqm.	914.60
19	Artificial Lightweight Aggregate (Sintered fly ash coarse aggregate) conforming to IS 9142:Part 2:2018	1 MT	1200.00
20	Processed Steel and Iron Slag aggregate conforming to IS:383-2016 and IRC SP:121-2018		
	(I) 6 mm to 10 mm size	1 Cum.	270.00
	(II) 10 mm to 65 mm size	1 Cum.	720.00

## 1.5 GENERAL NOTES:

### 1. Steel

- i. All Reinforcement Steel and structural steel shall be procured and used as per specifications mentioned in BIS's documents- IS: 1786 and IS: 2062 respectively. Independent tests shall be conducted, wherever required, to ensure that the materials procured conform to the specifications.
- ii. This steel shall be procured only from those firms, **which are established, reliable, indigenous & primary producers of steel**, having Integrated Steel Plants (ISP), using iron ore as the basic raw material as per Ministry of Steel's guidelines.
- iii. **No re-rolled steel shall be permitted in works. All other specifications and guidelines of MORTH shall be complied.**
- iv. All reinforcement steel and structural steel shall be procured from primary producers of steel - **SAIL/ RINL/ TATA/ JINDAL STEEL/ SHYAM STEEL.**
- v. In case of exigency, other brands (primary producers) of steel may be used with proper justification and prior approval of competent authority satisfying the tests as required by BIS code.
- vi. Rates of **Structural** steel shall be considered as fixed by SAIL. In case of non-availability of rates of SAIL, rates from other manufacturing companies approved by Government such as RINL/ TATA/ JINDAL STEEL/ SHYAM STEEL may be taken.
- vii. **Rate of steel shall be considered as fixed by Steel Authority of India Limited (SAIL).**

### 2. Cement

- i. The Cement of the companies having their own manufacturing units in the State of Odisha is to be used in all works.
- ii. Weight of cement shall be considered as 14.30 quintals per one cum.
- iii. Rate shall be considered as average factory price of three manufacturers of cement inside the State.

3. In case of bridge works expansion joints and bearings are to be procured from only specified manufacturing units approved by MORTH.

4. ~~Hard stone is to be used in lieu of granite for slope protection work.~~

### 5. Stone and Stone Products

- i. The rates of materials in Schedule of Rates are basic rates excluding cost of conveyance, royalty and GST.
- ii. Normally blasted stones should not be used for soling stone where hand broken stones are available.

### 6. Wood Work

- i. The rate of wood work items are equivalent to the rates of Odisha Forest Development Corporation Limited on the average. If any change to the rates are made by the Forest Corporation the revised rates shall be taken into consideration while arriving at the finished rates.
- ii. For wood works the supply rates as fixed by the Odisha Forest Development Corporation Limited shall prevail over that stated in this schedule of rates.

**7. Items under Miscellaneous Head**

- i. The rates under the sub-head under the miscellaneous items are inclusive of labour and cost of all materials and conveyance except where otherwise mentioned in the description of items. All the rates under miscellaneous items are inclusive of overhead charges, contractor's profit and labour welfare cess but excluding GST as applicable.

**8. Materials under E.P.M./ GeM Rate**

- i. In case of item of work or for supply of materials against which rates have been approved by Directorate of Export Promotion and Marketing the same shall be made applicable for adoption in this schedule of rates.
- ii. In case of items of work or for supply of materials, against which rates have been approved by the GeM the same rate shall be made applicable for adoption in this schedule of rates provided that ~~if the rates of same items of work or for supply of materials are also forced by E.P.M. the E.P.M. rates will prevail over GeM rates.~~

**9. Bitumen**

- i. Rate shall be considered as fixed by Indian Oil Corporation Limited (IOCL)/ Hindustan Petroleum Corporation Limited (HPCL)/ Bharat Petroleum Corporation Limited (BPCL).

**10. In Cement Concrete items of Analysis of Rate centering and shuttering shall be added extra wherever necessary depending upon the item of work.****11. Overhead Charges include the following elements:-**

- i. Site accommodation, setting up plant, access road, water supply, electricity and general site arrangements.
- ii. Office furniture, equipment and communications
- iii. Expenditure on
  - a. Corporate office of contractor
  - b. Site supervision
  - c. Documentation and "as built" drawings
- iv. Mobilisation/de-mobilisation of resources
- v. Labour camps with minimum amenities and transportation to work sites
- vi. Light vehicles for site supervision including administrative and managerial requirements
- vii. Laboratory equipment and quality control including field and laboratory testing
- viii. Minor T&P and survey instruments and setting out works, including verification of line, dimensions, trial pits and bore holes, where required
- ix. Watch and ward
- x. Traffic management during construction
- xi. Expenditure on safeguarding environment
- xii. Sundries
- xiii. Financing Expenditure
- xiv. Work Insurance/compensation

**12. For the purpose of calculation of rates, Contractor's profit @ 7.5 % and overhead charges @ 7.5 % to be adopted in Analysis of Rates of various items to work out estimated cost.**

## 1.6 PLINTH AREA RATES FOR BUILDINGS

(As circulated by the Chief Engineer, Buildings, Odisha vide his Letter No. B – IV – D – 5 / 2011 – 17111 Dt. 02.04.2019 and No. 30125 Dt. 17.07.2019)

**These rates shall be revised with the revision of rates by Chief Engineer, Buildings, Odisha from time to time.**

- A. Plinth area rates per sft (without GST) to be adopted for deriving Civil Cost of a building for preparation of rough cost estimate.

*(Rate in Rs. Per sft)*

Sl.	Floor Status	Building with RCC Frame structure		Building with load bearing wall footing	
		Non – Residential	Residential	Non – Residential	Residential
	<b>Civil Portion</b>				
1	Single Storey	1409	1314	1278	1201
2	Single Storeyed with two storeyed foundations (G.F.)	1530	1427	1409	1278
3	Single Storeyed with three storeyed foundations (G.F.)	1639	1527	1530	1409
4	1 <sup>st</sup> Floor	1333	1242	1201	1158
5	2 <sup>nd</sup> Floor	1530	1427	1409	1278
6	3 <sup>rd</sup> Floor	1726	1610	1530	1409
7	4 <sup>th</sup> Floor	1792	1671		
8	5 <sup>th</sup> Floor	1890	1762		
9	6 <sup>th</sup> Floor	2042	1904		
10	7 <sup>th</sup> Floor	2206	2058		
11	8 <sup>th</sup> Floor	2228	2078		
12	9 <sup>th</sup> Floor	2251	2099		
13	10 <sup>th</sup> Floor	2273	2120		
14	11 <sup>th</sup> Floor	2296	2141		
15	12 <sup>th</sup> Floor	2319	2162		
16	13 <sup>th</sup> Floor	2342	2184		
17	14 <sup>th</sup> Floor	2365	2206		
18	15 <sup>th</sup> Floor	2389	2228		
19	16 <sup>th</sup> Floor	2413	2250		
20	17 <sup>th</sup> Floor	2437	2273		
21	18 <sup>th</sup> Floor	2461	2295		
22	19 <sup>th</sup> Floor	2486	2318		
23	20 <sup>th</sup> Floor	2511	2342		
24	21 <sup>st</sup> Floor	2536	2365		
25	22 <sup>nd</sup> Floor	2561	2389		
26	23 <sup>rd</sup> Floor	2587	2413		
27	24 <sup>th</sup> Floor	2613	2437		
28	25 <sup>th</sup> Floor	2639	2461		

**B.** Extra cost to be added towards provision of following items of work in the estimate as shown hereunder.

<i>Sl.</i>	<i>Items</i>	<i>Rate in Rs.</i>
1	Marble stone flooring	88 / sft
2	Marble stone dado	111 / sft
3	Chequered tile flooring	24 / sft
4	Kota stone flooring	68 / sft
5	Kota stone dado	90 / sft
6	Grinite stone flooring	165 / sft
7	Ceramic tile flooring	49 / sft
8	Glazed tile dado	62 / sft
9	Vertified tile flooring	84 / sft
10	Vertified tile dado	101 / sft
11	Mosaic floor	39 / sft
12	Mosaic dado	35 / sft
13	Compound Wall having brick wall width 10" but heinght upto 5' 0"	1229 / rft
14	Compound Wall having brick wall width 5" but heinght upto 5' 0"	728 / rft
15	Portico	862 / sft

Note:

1. The plinth area rates for Civil Cost of the Building are derived based on schedule of rates 2014 (Post GST) and labour rates and royalties prevailed as of April, 2019.
2. In case of all Residential building, 10% towards E.I. (Internal) & 15% towards P.H. (Internal) of the Civil Cost is to be added.
3. In addition, 15% of the Civil Cost is to be added towards external P.H. works in all places except where ther is provision of water supply from Government / Local body.
4. In case of poor nature of soil, the cost should be enhanced by 15% of Civil Cost, where it is felt necessary basing upon Works Department Notification No. 32480 Dt.16.11.1978.
5. 12% G.S.T. or as applicable is to be paid extra.

### 1.7 Basic Rates of PH Materials (Materials for Water Supply and Sanitary Installations)

Sl. No.	Name of items	Unit	Rate (in Rs.)
<b>1</b>	<b>Ductile Iron pressure, socket and spigot pipes conforming to IS:8329 - 2000</b>		
<b>a</b>	<b><u>CLASS K7</u></b>		
<b>i</b>	100 mm dia	1 RM	962.08
<b>ii</b>	150 mm dia	1 RM	1373.76
<b>iii</b>	200 mm dia	1 RM	1729.40
<b>iv</b>	250 mm dia	1 RM	2265.37
<b>v</b>	300 mm dia	1 RM	2858.35
<b>vi</b>	350 mm dia	1 RM	3460.75
<b>vii</b>	400 mm dia	1 RM	4144.02
<b>viii</b>	450 mm dia	1 RM	4951.71
<b>ix</b>	500 mm dia	1 RM	5857.76
<b>x</b>	600 mm dia	1 RM	7608.94
<b>xi</b>	700 mm dia	1 RM	10607.25
<b>xii</b>	750 mm dia	1 RM	12075.33
<b>xiii</b>	800 mm dia	1 RM	13711.38
<b>xiv</b>	900 mm dia	1 RM	16632.00
<b>xv</b>	1000 mm dia	1 RM	20234.79
<b>b</b>	<b><u>CLASS K9</u></b>		
<b>i</b>	100 mm dia	1 RM	1091.76
<b>ii</b>	150 mm dia	1 RM	1582.10
<b>iii</b>	200 mm dia	1 RM	2035.25
<b>iv</b>	250 mm dia	1 RM	2711.18
<b>v</b>	300 mm dia	1 RM	3430.66
<b>vi</b>	350 mm dia	1 RM	4194.79
<b>vii</b>	400 mm dia	1 RM	5006.64
<b>viii</b>	450 mm dia	1 RM	5931.41
<b>ix</b>	500 mm dia	1 RM	6996.14
<b>x</b>	600 mm dia	1 RM	8996.15
<b>xi</b>	700 mm dia	1 RM	11860.74
<b>xii</b>	750 mm dia	1 RM	13330.90
<b>xiii</b>	800 mm dia	1 RM	14699.52
<b>xiv</b>	900 mm dia	1 RM	17710.31
<b>xv</b>	1000 mm dia	1 RM	21383.56
<b>xvi</b>	1100 mm dia	1 RM	25571.14
<b>xvii</b>	1200 mm dia	1 RM	29260.06
<b>2</b>	<b>Centrifugally Cast (spun) Iron S/S Pressure pipes Class-LA, conforming to IS:1536 - 2001</b>		
<b>a</b>	<b>Class - LA</b>		
<b>i</b>	100 mm dia	1 RM	1219.36



Sl. No.	Name of items	Unit	Rate (in Rs.)
ii	150 mm dia	1 RM	1979.58
iii	200 mm dia	1 RM	2896.77
iv	250 mm dia	1 RM	3904.97
v	300 mm dia	1 RM	5034.29
vi	350 mm dia	1 RM	6476.31
vii	400 mm dia	1 RM	7880.29
viii	450 mm dia	1 RM	9502.27
ix	500 mm dia	1 RM	11125.35
x	600 mm dia	1 RM	14825.04
<b>b</b>	<b>Class - A</b>		
i	100 mm dia	1 RM	1342.80
ii	150 mm dia	1 RM	2169.94
iii	200 mm dia	1 RM	3143.53
iv	250 mm dia	1 RM	4251.07
v	300 mm dia	1 RM	5157.73
vi	350 mm dia	1 RM	7024.27
vii	400 mm dia	1 RM	8611.63
viii	450 mm dia	1 RM	10440.13
ix	500 mm dia	1 RM	12117.53
x	600 mm dia	1 RM	16183.99
<b>c</b>	<b>Class - B</b>		
i	100 mm dia	1 RM	1431.62
ii	150 mm dia	1 RM	2338.41
iii	200 mm dia	1 RM	3400.81
iv	250 mm dia	1 RM	4598.27
v	300 mm dia	1 RM	5962.97
vi	350 mm dia	1 RM	7617.26
vii	400 mm dia	1 RM	9298.08
viii	450 mm dia	1 RM	11261.52
ix	500 mm dia	1 RM	13111.91
x	600 mm dia	1 RM	17532.55
<b>3</b>	<b>C.I. PIPE Screwed Flanged Pipe conforming to ( IS-1536)</b>		
<b>a</b>	<b>Class - A</b>		
i	80 mm dia	1 RM	1121.25
ii	100 mm dia	1 RM	1385.50
iii	125 mm dia	1 RM	1744.20
iv	150 mm dia	1 RM	2133.00
v	200 mm dia	1 RM	3060.58
vi	250 mm dia	1 RM	4098.76
vii	300 mm dia	1 RM	5276.65
viii	350 mm dia	1 RM	6492.46
ix	400 mm dia	1 RM	8026.85
x	450 mm dia	1 RM	9704.13
xi	500 mm dia	1 RM	11274.24

Sl. No.	Name of items	Unit	Rate (in Rs.)
xii	600 mm dia	1 RM	15118.04
<b>b</b>	<b>Class - B</b>		
i	80 mm dia	1 RM	1192.82
ii	100 mm dia	1 RM	1467.35
iii	125 mm dia	1 RM	1866.54
iv	150 mm dia	1 RM	2271.49
v	200 mm dia	1 RM	3265.87
vi	250 mm dia	1 RM	4387.11
vii	300 mm dia	1 RM	5657.25
viii	350 mm dia	1 RM	6980.48
ix	400 mm dia	1 RM	8582.89
x	450 mm dia	1 RM	10260.17
xi	500 mm dia	1 RM	12107.13
xii	600 mm dia	1 RM	16224.36
<b>4</b>	<b>C.I. PIPE Vertically Socket &amp; Spigot Pipe conforming to ( IS-1537)</b>		
<b>a</b>	<b>Class - A</b>		
i	80mm dia	1 RM	965.63
ii	100mm dia	1 RM	1217.04
iii	125mm dia	1 RM	1533.16
iv	150mm dia	1 RM	1869.97
v	200mm dia	1 RM	2709.83
vi	250mm dia	1 RM	3667.26
vii	300mm dia	1 RM	4736.76
viii	350mm dia	1 RM	5931.90
ix	400mm dia	1 RM	7271.16
x	450mm dia	1 RM	8814.72
xi	500mm dia	1 RM	10234.84
xii	600mm dia	1 RM	13677.12
xiii	700mm dia	1 RM	17669.81
xiv	750mm dia	1 RM	19809.78
xv	800mm dia	1 RM	22099.62
xvi	900mm dia	1 RM	26962.15
xvii	1000mm dia	1 RM	32447.50
<b>b</b>	<b>Class - B</b>		
i	80mm dia	1 RM	1044.05
ii	100mm dia	1 RM	1304.76
iii	125mm dia	1 RM	1643.88
iv	150mm dia	1 RM	2014.21
v	200mm dia	1 RM	2910.59
vi	250mm dia	1 RM	3949.99
vii	300mm dia	1 RM	5117.36
viii	350mm dia	1 RM	6425.54
ix	400mm dia	1 RM	7831.84
x	450mm dia	1 RM	9488.45

Sl. No.	Name of items	Unit	Rate (in Rs.)
xi	500mm dia	1 RM	11052.68
xii	600mm dia	1 RM	14788.09
xiii	700mm dia	1 RM	19048.34
xiv	750mm dia	1 RM	21440.94
xv	800mm dia	1 RM	23843.94
xvi	900mm dia	1 RM	29144.69
xvii	1000mm dia	1 RM	34994.62
<b>5</b>	<b>C.I. PIPE Vertically CI Flanged Pipe conforming to ( IS-1537)</b>		
<b>a</b>	<b>Class - A</b>		
i	80mm dia	1 RM	1087.85
ii	100mm dia	1 RM	1342.80
iii	125mm dia	1 RM	1676.18
iv	150mm dia	1 RM	2055.68
v	200mm dia	1 RM	2952.06
vi	250mm dia	1 RM	3960.39
vii	300mm dia	1 RM	5081.64
viii	350mm dia	1 RM	6379.42
ix	400mm dia	1 RM	7826.09
x	450mm dia	1 RM	9390.33
xi	500mm dia	1 RM	10965.09
xii	600mm dia	1 RM	14685.45
xiii	700mm dia	1 RM	19115.26
xiv	750mm dia	1 RM	21544.81
xv	800mm dia	1 RM	24178.42
xvi	900mm dia	1 RM	29272.78
xvii	1000mm dia	1 RM	35504.54
<b>b</b>	<b>Class - B</b>		
i	80mm dia	1 RM	1159.42
ii	100mm dia	1 RM	1423.55
iii	125mm dia	1 RM	1797.30
iv	150mm dia	1 RM	2194.17
v	200mm dia	1 RM	3157.47
vi	250mm dia	1 RM	4248.75
vii	300mm dia	1 RM	5462.36
viii	350mm dia	1 RM	6867.43
ix	400mm dia	1 RM	8382.13
x	450mm dia	1 RM	10059.41
xi	500mm dia	1 RM	11772.53
xii	600mm dia	1 RM	15791.77
xiii	700mm dia	1 RM	20484.61
xiv	750mm dia	1 RM	23175.97
xv	800mm dia	1 RM	25928.49
xvi	900mm dia	1 RM	31449.58
xvii	1000mm dia	1 RM	38035.63

Sl. No.	Name of items	Unit	Rate (in Rs.)
<b>6</b>	<b>C.I. PIPE Horizontal CI Double Flanged Pipe conforming to ( IS-7181)</b>		
<b>a</b>	<b>Class - B</b>		
<b>i</b>	80mm dia	1 RM	1242.49
<b>ii</b>	100mm dia	1 RM	1549.31
<b>iii</b>	125mm dia	1 RM	1956.46
<b>iv</b>	150mm dia	1 RM	2394.93
<b>v</b>	200mm dia	1 RM	3441.18
<b>vi</b>	250mm dia	1 RM	4654.79
<b>vii</b>	300mm dia	1 RM	6012.64
<b>viii</b>	350mm dia	1 RM	7577.98
<b>ix</b>	400mm dia	1 RM	9241.56
<b>x</b>	450mm dia	1 RM	11130.00
<b>xi</b>	500mm dia	1 RM	12997.65
<b>xii</b>	600mm dia	1 RM	17417.18
<b>xiii</b>	700mm dia	1 RM	22532.21
<b>xiv</b>	750mm dia	1 RM	25445.13
<b>7</b>	<b>C.I. Specials &amp; Fittings conforming to IS:1538 - 1993 (Part-x)</b>	Qntl	8213.66
<b>8</b>	<b>Cast Iron Sluice Valve with double flanged ends for water works purposes conforming to IS 14846 - 2000 (Standard)</b>		
<b>a</b>	<b>PN-1.0 (With Wheel)</b>		
<b>i</b>	100 mm dia	Each	5867.18
<b>ii</b>	150 mm dia	Each	9183.82
<b>iii</b>	200 mm dia	Each	13806.80
<b>iv</b>	250 mm dia	Each	21150.26
<b>v</b>	300 mm dia	Each	27812.65
<b>vi</b>	350 mm dia	Each	52565.71
<b>vii</b>	400 mm dia	Each	61802.38
<b>viii</b>	450 mm dia	Each	80400.14
<b>ix</b>	500 mm dia	Each	96831.13
<b>x</b>	600 mm dia	Each	131029.20
<b>b</b>	<b>PN-1.0 (Without Wheel)</b>		
<b>i</b>	100 mm dia	Each	5809.07
<b>ii</b>	150 mm dia	Each	9091.57
<b>iii</b>	200 mm dia	Each	13668.93
<b>iv</b>	250 mm dia	Each	20939.84
<b>v</b>	300 mm dia	Each	27533.72
<b>vi</b>	350 mm dia	Each	52041.11
<b>vii</b>	400 mm dia	Each	61184.56
<b>viii</b>	450 mm dia	Each	79596.73
<b>ix</b>	500 mm dia	Each	95861.71
<b>x</b>	600 mm dia	Each	129718.81
<b>c</b>	<b>PN-1.6 (With Wheel)</b>		

Sl. No.	Name of items	Unit	Rate (in Rs.)
i	100 mm dia	Each	6748.40
ii	150 mm dia	Each	10561.73
iii	200 mm dia	Each	15878.26
iv	250 mm dia	Each	24322.90
v	300 mm dia	Each	31983.59
vi	350 mm dia	Each	60450.52
vii	400 mm dia	Each	71072.32
viii	450 mm dia	Each	91995.52
ix	500 mm dia	Each	111355.34
x	600 mm dia	Each	150683.49
<b>d</b>	<b>PN-1.6 (Without Wheel)</b>		
i	100 mm dia	Each	6680.99
ii	150 mm dia	Each	10455.91
iii	200 mm dia	Each	15719.71
iv	250 mm dia	Each	24080.30
v	300 mm dia	Each	31663.30
vi	350 mm dia	Each	59846.04
vii	400 mm dia	Each	70362.14
viii	450 mm dia	Each	91075.89
ix	500 mm dia	Each	110241.80
x	600 mm dia	Each	149176.99
<b>9</b>	<b>Cast Iron Reflux Valves (Non-return valves) with double flanged ends conforming to IS : 5312 (Part-I) - 2004 (Standard)</b>		
<b>a</b>	<b>PN-1.0</b>		
i	100 mm dia	Each	5173.51
ii	150 mm dia	Each	7428.48
iii	200 mm dia	Each	14591.61
iv	250 mm dia	Each	24738.62
v	300 mm dia	Each	35025.57
vi	350 mm dia	Each	48947.38
vii	400 mm dia	Each	80384.60
viii	450 mm dia	Each	112751.85
ix	500 mm dia	Each	172576.11
x	600 mm dia	Each	280154.44
<b>b</b>	<b>PN-1.6</b>		
i	100 mm dia	Each	5892.02
ii	150 mm dia	Each	8459.08
iii	200 mm dia	Each	16617.56
iv	250 mm dia	Each	28173.43
v	300 mm dia	Each	37012.99
vi	350 mm dia	Each	55745.57
vii	400 mm dia	Each	91549.71
viii	450 mm dia	Each	128410.39
ix	500 mm dia	Each	196544.35

Sl. No.	Name of items	Unit	Rate (in Rs.)
x	600 mm dia	Each	319064.80
<b>10</b>	<b>Cost of DI (D/F) Non Return valve PN-1.0 (Standard)</b>		
<b>a</b>	<b>SINGLE DOOR</b>		
i	100 mm dia	Each	12355.36
ii	150 mm dia	Each	23367.92
iii	200 mm dia	Each	39754.26
iv	250 mm dia	Each	55745.57
v	300 mm dia	Each	80644.82
vi	350 mm dia	Each	133619.14
vii	400 mm dia	Each	155623.70
viii	450 mm dia	Each	194410.74
ix	500 mm dia	Each	254750.29
x	600 mm dia	Each	392532.05
<b>b</b>	<b>MULTI DOOR</b>		
i	700 mm dia	Each	893182.56
ii	750 mm dia	Each	934880.81
iii	800 mm dia	Each	1045432.61
iv	900 mm dia	Each	1147960.75
v	1000 mm dia	Each	1428766.41
<b>11</b>	<b>Cost of DI (D/F) Non Return valve PN-1.6 (Standard)</b>		
<b>a</b>	<b>SINGLE DOOR</b>		
i	100 mm dia	Each	13596.38
ii	150 mm dia	Each	25697.64
iii	200 mm dia	Each	43737.53
iv	250 mm dia	Each	61326.60
v	300 mm dia	Each	88706.90
vi	350 mm dia	Each	146980.13
vii	400 mm dia	Each	171202.35
viii	450 mm dia	Each	213859.62
ix	500 mm dia	Each	331495.77
x	600 mm dia	Each	510281.12
<b>b</b>	<b>MULTI DOOR</b>		
i	700 mm dia	Each	1027167.62
ii	750 mm dia	Each	1075105.20
iii	800 mm dia	Each	1202250.72
iv	900 mm dia	Each	1350542.33
v	1000 mm dia	Each	1680900.83
<b>12</b>	<b>Cost of DI (D/F) Butter Fly Valve (Standard)</b>		
<b>a</b>	<b>PN-1.0</b>		
i	100 mm dia	Each	14540.84
ii	150 mm dia	Each	18158.19
iii	200 mm dia	Each	20036.85
iv	250 mm dia	Each	43343.59

Sl. No.	Name of items	Unit	Rate (in Rs.)
v	300 mm dia	Each	53020.93
vi	350 mm dia	Each	69050.53
vii	400 mm dia	Each	85418.16
viii	450 mm dia	Each	99681.16
ix	500 mm dia	Each	112346.53
x	600 mm dia	Each	187908.00
xi	700 mm dia	Each	266965.58
xii	750 mm dia	Each	348464.81
xiii	800 mm dia	Each	384601.73
xiv	900 mm dia	Each	455521.61
xv	1000 mm dia	Each	595820.64
<b>b</b>	<b>PN-1.6</b>		
i	100 mm dia	Each	15304.98
ii	150 mm dia	Each	19113.06
iii	200 mm dia	Each	21091.17
iv	250 mm dia	Each	46593.92
v	300 mm dia	Each	57005.30
vi	350 mm dia	Each	74236.52
vii	400 mm dia	Each	93931.18
viii	450 mm dia	Each	109640.50
ix	500 mm dia	Each	123584.08
x	600 mm dia	Each	202659.27
xi	700 mm dia	Each	293668.85
xii	750 mm dia	Each	383324.37
xiii	800 mm dia	Each	423068.36
xiv	900 mm dia	Each	546624.42
xv	1000 mm dia	Each	714979.80
	<b>Reputed Make Cast Iron Valve confirming to IS Specifications may be considered to used in WTP,Pumping Station, Rising Main &amp; Reservoir sites.</b>		
<b>13</b>	<b>Kirloskar / Vag/ Audco or equivalent make cast iron Non Rising Spindle type Sluice Valve confirming to IS 14846</b>		
<b>a</b>	<b>PN-1.0</b>		
i	65mm dia	Each	12159.37
ii	80mm dia	Each	13780.38
iii	100 mm dia	Each	19263.66
iv	125mm dia	Each	23759.65
v	150 mm dia	Each	28406.12
vi	200 mm dia	Each	50049.29
vii	250 mm dia	Each	65224.35
viii	300 mm dia	Each	93884.94
ix	350 mm dia	Each	140293.40
x	400 mm dia	Each	174656.25
xi	450 mm dia	Each	211109.90

Sl. No.	Name of items	Unit	Rate (in Rs.)
xii	500 mm dia	Each	271923.89
xiii	600 mm dia	Each	361880.50
<b>b</b>	<b>PN-1.6</b>		
<b>i</b>	65mm dia	Each	12708.68
<b>ii</b>	80mm dia	Each	14445.91
<b>iii</b>	100 mm dia	Each	20172.64
<b>iv</b>	125mm dia	Each	24350.55
<b>v</b>	150 mm dia	Each	30347.66
<b>vi</b>	200 mm dia	Each	51512.48
<b>vii</b>	250 mm dia	Each	70467.84
<b>viii</b>	300 mm dia	Each	96850.46
<b>ix</b>	350 mm dia	Each	148656.56
<b>x</b>	400 mm dia	Each	178987.09
<b>xi</b>	450 mm dia	Each	224332.41
<b>xii</b>	500 mm dia	Each	314076.14
<b>xiii</b>	600 mm dia	Each	411619.05
<b>14</b>	<b>Kirloskar / Vag/ Audco or equivalent make Cast Iron Rising Spindle Type Gate Valve as per IS 14846 Flange End.</b>		
<b>a</b>	<b>PN-1.0</b>		
<b>i</b>	65mm dia	Each	13149.10
<b>ii</b>	80mm dia	Each	14620.85
<b>iii</b>	100 mm dia	Each	20759.87
<b>iv</b>	125mm dia	Each	25230.18
<b>v</b>	150 mm dia	Each	31171.01
<b>vi</b>	200 mm dia	Each	54882.95
<b>vii</b>	250 mm dia	Each	71855.18
<b>viii</b>	300 mm dia	Each	101482.25
<b>ix</b>	350 mm dia	Each	164695.33
<b>x</b>	400 mm dia	Each	211290.97
<b>xi</b>	450 mm dia	Each	256972.72
<b>xii</b>	500 mm dia	Each	308535.36
<b>xiii</b>	600 mm dia	Each	424392.57
<b>b</b>	<b>PN-1.6</b>		
<b>i</b>	65mm dia	Each	13217.61
<b>ii</b>	80mm dia	Each	15663.19
<b>iii</b>	100 mm dia	Each	20899.34
<b>iv</b>	125mm dia	Each	26289.64
<b>v</b>	150 mm dia	Each	31519.68
<b>vi</b>	200 mm dia	Each	55980.34
<b>vii</b>	250 mm dia	Each	72701.77
<b>viii</b>	300 mm dia	Each	102228.53
<b>ix</b>	350 mm dia	Each	173643.28
<b>x</b>	400 mm dia	Each	214731.17
<b>xi</b>	450 mm dia	Each	287852.56



Sl. No.	Name of items	Unit	Rate (in Rs.)
xii	500 mm dia	Each	362690.39
xiii	600 mm dia	Each	451764.92
15	<b>Kirloskar / Vag/ Audco or equivalent make Cast Iron, Double flanged swing type non return valves IS: 5312, Part -I, Flanged ends.</b>		
a	<b>PN-1.0</b>		
i	65mm dia	Each	6838.81
ii	80mm dia	Each	7993.70
iii	100 mm dia	Each	11923.26
iv	125mm dia	Each	18415.84
v	150 mm dia	Each	20134.72
vi	200 mm dia	Each	34266.21
vii	250 mm dia	Each	54500.02
viii	300 mm dia	Each	73915.38
ix	350 mm dia	Each	130033.96
x	400 mm dia	Each	167260.80
xi	450 mm dia	Each	252558.70
xii	500 mm dia	Each	330392.63
xiii	600 mm dia	Each	465128.12
b	<b>PN-1.6</b>		
i	65mm dia	Each	7176.46
ii	80mm dia	Each	8390.08
iii	100 mm dia	Each	12509.27
iv	125mm dia	Each	19328.50
v	150 mm dia	Each	21966.15
vi	200 mm dia	Each	37390.77
vii	250 mm dia	Each	59489.05
viii	300 mm dia	Each	80684.45
ix	350 mm dia	Each	136366.28
x	400 mm dia	Each	175398.86
xi	450 mm dia	Each	264941.95
xii	500 mm dia	Each	346551.29
xiii	600 mm dia	Each	487584.85
16	<b>Kirloskar / Vag/ Audco or equivalent make Cast Iron, Wafer type centric butterfly valve as per BSEN 593 (BS: 5155/ IS : 13095-CI MOC, Lever Operaed.</b>		
a	<b>PN-1.0</b>		
	<b>Lever Operaed.</b>		
i	50mm dia	Each	3553.98
ii	65mm dia	Each	3936.90
iii	80mm dia	Each	4387.11
iv	100 mm dia	Each	6059.50
v	125mm dia	Each	7334.28
vi	150 mm dia	Each	8721.62

Sl. No.	Name of items	Unit	Rate (in Rs.)
vii	200 mm dia	Each	15304.73
	<b>Gear Operated</b>		
i	250 mm dia	Each	23374.28
ii	300 mm dia	Each	27554.64
iii	350 mm dia	Each	50555.78
iv	400 mm dia	Each	65022.49
v	450 mm dia	Each	91430.80
vi	500 mm dia	Each	109352.39
vii	600 mm dia	Each	192982.79
b	<b>PN-1.6</b>		
	<b>Lever Operaed.</b>		
i	50mm dia	Each	3731.37
ii	65mm dia	Each	4132.65
iii	80mm dia	Each	4606.10
iv	100 mm dia	Each	6361.68
v	125mm dia	Each	7700.08
vi	150 mm dia	Each	9157.15
	<b>Gear Operated</b>		
i	200 mm dia	Each	17251.16
ii	250 mm dia	Each	24322.42
iii	300 mm dia	Each	30206.97
iv	350 mm dia	Each	55028.53
17	<b>Kirloskar / Vag/ Audco or equivalent make Kinetic Air valve (Without Isolating SLV), IS 14845, (DK type)</b>		
a	<b>PN-1.0</b>		
i	80mm dia	Each	17670.79
ii	100 mm dia	Each	22346.62
iii	150 mm dia	Each	45271.92
iv	200 mm dia	Each	66790.30
v	250 mm dia	Each	89939.47
b	<b>PN-1.6</b>		
i	80mm dia	Each	18554.08
ii	100 mm dia	Each	23463.59
iii	150 mm dia	Each	45510.48
iv	200 mm dia	Each	67141.42
v	250 mm dia	Each	92997.97
18	<b>Kirloskar / Vag/ Audco or equivalent make Tamperproof Kinetic Air Valve (Without Isolating SLB, IS 14845)</b>		
a	<b>PN-1.0</b>		
i	80mm dia	Each	18784.08
ii	100 mm dia	Each	24450.87
iii	150 mm dia	Each	51141.79
iv	200 mm dia	Each	71342.57
b	<b>PN-1.6</b>		

Sl. No.	Name of items	Unit	Rate (in Rs.)
i	80mm dia	Each	19722.43
ii	100 mm dia	Each	24581.78
iii	150 mm dia	Each	51753.49
iv	200 mm dia	Each	74908.78
<b>19</b>	<b>Kirloskar / Vag/ Audco or equivalent make Cast Iron Swing Type Foot Valve IS .4038, PN.0.2 rating Flanged Joint</b>		
i	65mm dia	Each	2728.18
ii	80mm dia	Each	3328.87
iii	100 mm dia	Each	4411.58
iv	125mm dia	Each	7264.55
v	150 mm dia	Each	7848.11
vi	200 mm dia	Each	22141.09
vii	250 mm dia	Each	28253.20
viii	300 mm dia	Each	49492.65
ix	350 mm dia	Each	65401.74
x	400 mm dia	Each	78545.95
xi	450 mm dia	Each	94839.19
<b>20</b>	<b>CI Double Air Valve (Standard) PN-1.6</b>		
i	50 mm dia	Each	6824.13
ii	80 mm dia	Each	9635.87
iii	100 mm dia	Each	11508.28
iv	150 mm dia	Each	23920.53
<b>21</b>	<b>CI Single Air Valve (Standard)</b>		
i	15 mm dia	Each	933.09
ii	20 mm dia	Each	1347.82
iii	25 mm dia	Each	1762.55
<b>22</b>	<b>DI Tamper proof Kinetic Air Valve</b>		
i	25mm single air valves	Each	8153.96
ii	50mm kinetic air valves	Each	11191.66
iii	80mm kinetic air valves	Each	12632.83
iv	100mm kinetic air valves	Each	15490.69
v	150mm kinetic air valves	Each	25856.56
<b>23</b>	<b>M.S. Blank Flange/Flange</b>		
i	10mm thick M S plate 80 mm dia	Each	518.35
ii	10mm thick MS plate 100 mm dia	Each	829.47
iii	10mm thick MS plate 150 mm dia	Each	1088.58
iv	12mm thick MS plate 200 mm dia	Each	1244.08
v	12mm thick MS plate 250 mm dia	Each	1658.81
vi	16 mm thick MS plate 300 mm dia	Each	2280.91
vii	16mm thick MS plate 350 mm dia	Each	2799.26
viii	16mm thick MS plate 400 mm dia	Each	3628.73
ix	20 mm thick MS plate 450 mm dia	Each	4147.08
x	20 mm thick MS plate 500mm dia	Each	5183.91
<b>24</b>	<b>Ductile Iron fittings &amp; Specials confirming to IS Specification.</b>		

Sl. No.	Name of items	Unit	Rate (in Rs.)
i	100mm dia fittings & Specials	Qntl	12389.37
ii	150mm dia fittings & Specials	Qntl	12389.37
iii	200mm dia fittings & Specials	Qntl	12389.37
iv	250mm dia fittings & Specials	Qntl	12389.37
v	300mm dia fittings & Specials	Qntl	12389.37
vi	350mm dia fittings & Specials	Qntl	13171.86
vii	400mm dia fittings & Specials	Qntl	13171.86
viii	450mm dia fittings & Specials	Qntl	13171.86
ix	500mm dia fittings & Specials	Qntl	13171.86
x	600mm dia fittings & Specials	Qntl	13171.86
xi	700mm dia fittings & Specials	Qntl	16040.98
xii	750mm dia fittings & Specials	Qntl	16040.98
xiii	800mm dia fittings & Specials	Qntl	16040.98
xiv	900mm dia fittings & Specials	Qntl	17475.53
xv	1000mm dia fittings & Specials	Qntl	18258.02
xvi	1100mm dia fittings & Specials	Qntl	20735.90
xvii	1200mm dia fittings & Specials	Qntl	20735.90
25	<b>PVC plastic Pipes Schedule -40,80 &amp; 120 as per ASTM -D-1785/2004.</b>		
a	<b>SCHEDULE-40</b>		
i	15 mm dia	1 RM	45.86
ii	20 mm dia	1 RM	60.97
iii	25 mm dia	1 RM	89.52
iv	32 mm dia	1 RM	121.02
b	<b>SCHEDULE-80</b>		
i	15 mm dia	1 RM	57.28
ii	20 mm dia	1 RM	77.55
iii	25 mm dia	1 RM	113.84
iv	32 mm dia	1 RM	157.49
v	50 mm dia	1 RM	264.52
vi	100 mm dia	1 RM	789.89
vii	125 mm dia	1 RM	1095.68
viii	150 mm dia	1 RM	1507.75
ix	200 mm dia	1 RM	2290.46
c	<b>SCHEDULE-120</b>		
i	50 mm dia	1 RM	298.60
ii	100 mm dia	1 RM	997.86
iii	125 mm dia	1 RM	1423.94
iv	150 mm dia	1 RM	1916.33
v	200 mm dia	1 RM	3195.12
26	<b><u>Rigid UPVC PIPES(IS:4985:2000)</u></b>	-	
a	<b><u>Class-3</u></b>		
i	90 mm dia	1 RM	258.72
ii	110 mm dia	1 RM	372.68

Sl. No.	Name of items	Unit	Rate (in Rs.)
iii	125 mm dia	1 RM	491.83
iv	160 mm dia	1 RM	785.78
v	200 mm dia	1 RM	1244.12
vi	250 mm dia	1 RM	1936.55
<b>b</b>	<b>Class-4</b>		
i	90 mm dia	1 RM	362.28
ii	110 mm dia	1 RM	483.36
iii	125 mm dia	1 RM	627.35
iv	160 mm dia	1 RM	1036.80
v	200 mm dia	1 RM	1606.02
<b>27</b>	<b>CASING PIPES (IS:12818:2010)</b>		
<b>a</b>	<b>CM (Casing Medium depth above 80m above)</b>		
i	50 mm	1 RM	183.58
ii	100 mm	1 RM	441.23
iii	125 mm	1 RM	703.75
iv	150 mm	1 RM	962.24
v	200 mm	1 RM	1740.90
<b>b</b>	<b>CS (Casing Shallow) depth upto 80m</b>		
i	150 mm	1 RM	742.55
ii	200 mm	1 RM	1361.81
iii	250 mm	1 RM	2127.38
iv	300 mm	1 RM	2980.78
<b>28</b>	<b>MS(ERW/SW)Pipes IS 3589:2001</b>		
<b>a</b>	<b>Outer dia &amp; thickness</b>		
i	168.3 mm (4.0 mm)	1 RM	1013.95
ii	168.3 mm (4.50 mm)	1 RM	1139.47
iii	219.1 mm (4.50 mm)	1 RM	1489.86
iv	219.1 mm (6.30 mm)	1 RM	2072.56
v	273 mm (5.0 mm)	1 RM	2066.32
vi	273 mm (6.30 mm)	1 RM	2573.30
vii	323.9 mm (5.60 mm)	1 RM	2754.73
viii	323.9 mm (7.10 mm)	1 RM	3475.31
ix	355.6 mm (5.60 mm)	1 RM	3024.24
x	355.6 mm (8.0 mm)	1 RM	4295.36
xi	406.4 mm (6.30 mm)	1 RM	3895.18
xii	406.4 mm (8.80 mm)	1 RM	5403.64
xiii	457 mm (6.30 mm)	1 RM	4383.56
xiv	457 mm (10.0 mm)	1 RM	6888.35
xv	508 mm (6.30 mm)	1 RM	4878.06
xvi	508 mm (11.0 mm)	1 RM	8452.84
xvii	610 mm (6.30 mm)	1 RM	5873.30
xviii	610 mm (12.50 mm)	1 RM	11521.74
xix	711 mm (7.10 mm)	1 RM	7702.28
xx	712 mm (14.20 mm)	1 RM	15277.94

Sl. No.	Name of items	Unit	Rate (in Rs.)
xxi	813 mm (8.0 mm)	1 RM	9956.15
xxii	814 mm (18.0 mm)	1 RM	19661.51
xxiii	914 mm (10.0 mm)	1 RM	13963.40
xxiv	914 mm (17.50 mm)	1 RM	24232.62
xxv	1016 mm (10.0 mm)	1 RM	15528.86
xxvi	1016 mm (20.0 mm)	1 RM	30744.65
<b>29</b>	<b>GI PIPE(Medium) as per IS 1239 Part-1</b>		
i	15 mm dia	1 RM	125.89
ii	20 mm dia	1 RM	156.96
iii	25 mm dia	1 RM	226.21
iv	32 mm dia	1 RM	279.18
v	40 mm dia	1 RM	328.36
vi	50 mm dia	1 RM	453.39
vii	65 mm dia	1 RM	574.39
viii	80 mm dia	1 RM	737.71
ix	100 mm dia	1 RM	1051.88
x	125 mm dia	1 RM	1386.97
	150 mm dia	1 RM	1645.35
30	Pig Lead	Kg	191.71
31	spurn yarn gasket	Kg	69.24
32	Kerosene oil(As per Market rate)	Litre	50.48
33	High Speed Diesel (HSD)(As per market rate)	Litre	89.79
34	Bleaching powder(EPM Rate)	Quintal	2425.96
35	Rubber insertion 3 mm thick	Sqm	943.36
36	Nuts & bolts	Kg	65.82
37	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 80 mm dia	Each	21.53
38	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	Each	28.02
39	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	Each	38.78
40	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200 mm dia	Each	66.80
41	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	Each	78.54
42	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	Each	110.84
43	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	Each	136.78
44	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	Each	251.90
45	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	Each	279.91
46	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	Each	306.83

Sl. No.	Name of items	Unit	Rate (in Rs.)
47	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	Each	379.01
48	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 650 mm dia	Each	583.56
49	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	Each	684.74
50	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	Each	736.49
51	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	Each	985.20
52	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	Each	1225.24
53	100mm dia C.I mechanical joint socket IS:13382/92	Each	2503.32
54	150mm dia C.I mechanical joint socket IS:13382/92	Each	4149.77
55	200mm dia C.I mechanical joint socket IS:13382/92	Each	5534.17
56	250mm dia C.I mechanical joint socket IS:13382/92	Each	7312.14
57	300mm dia C.I mechanical joint socket IS:13382/92	Each	10012.31
58	350mm dia C.I mechanical joint socket IS:13382/92	Each	14082.68
59	400mm dia C.I mechanical joint socket IS:13382/92	Each	17194.03
60	450mm dia C.I mechanical joint socket IS:13382/92	Each	20310.64
61	500mm dia C.I mechanical joint socket IS:13382/92	Each	24528.80
62	600mm dia C.I mechanical joint socket IS:13382/92	Each	34878.28
63	700mm dia C.I mechanical joint socket IS:13382/92	Each	34754.35
64	800mm dia C.I mechanical joint socket IS:13382/92	Each	45844.35
65	100mm dia C.I mechanical joint collar IS:13382/92	Each	3162.37
66	150mm dia C.I mechanical joint collar IS:13382/92	Each	5270.90
67	200mm dia C.I mechanical joint collar IS:13382/92	Each	7114.19
68	250mm dia C.I mechanical joint collar IS:13382/92	Each	9487.10
69	300mm dia C.I mechanical joint collar IS:13382/92	Each	13306.31
70	350mm dia C.I mechanical joint collar IS:13382/92	Each	18825.07

Sl. No.	Name of items	Unit	Rate (in Rs.)
71	400mm dia C.I mechanical joint collar IS:13382/92	Each	22678.04
72	450mm dia C.I mechanical joint collar IS:13382/92	Each	27728.24
73	500mm dia C.I mechanical joint collar IS:13382/92	Each	33767.92
74	600mm dia C.I mechanical joint collar IS:13382/92	Each	46925.22
75	Cost of solvent cement	Kg	885.01
76	15mm dia G.M ferrule cock as per IS:2692-1978	Each	809.52
77	20mm dia G.M ferrule cock as per IS:2692-1978	Each	1369.11
78	25mm dia G.M ferrule cock as per IS:2692-1978	Each	2518.86
79	15mm dia Brass Screw-down Bib Cock	Each	434.31
80	20mm dia Brass Screw-down Bib Cock	Each	793.99
81	15mm dia Brass Screw-down Stop Cock	Each	434.31
82	20mm dia Brass Screw-down Stop Cock	Each	793.99
83	15mm dia C.P. short body bib cock	Each	704.43
84	15mm dia C.P.long body bib cock	Each	764.26
85	15mm dia C.P. long nose bib cock	Each	835.70
86	15mm dia C.P swan neck Pillar cock with spout	Each	1146.33
87	15mm dia C.P. Pillar cock with swinging spout	Each	1177.28
88	15mm dia C.P.angular stop cock	Each	704.43
89	20mm dia C.P.angular stop cock	Each	724.74
90	15mm dia C.P concealed stop cock	Each	854.91
91	20mm dia C.P concealed stop cock	Each	862.37
92	15mm dia C.P pillar cock	Each	713.98
93	C.P.revolving shower with arm (overhead)	Each	413.02
94	CP Arm for Over head Shower	Each	115.24
95	CP Shower (Over Head)	Each	308.42
96	C.P.revolving shower (bend type)	Each	501.72
97	C.P. towel rail.(600x20)mm	Each	660.64
98	C.P. towel rail.(450x20)mm	Each	647.79
99	C.P. towel ring.	Each	413.02
100	C.P.soap holder/disc.	Each	128.09
101	C.P. toilet paper holder	Each	802.55
102	C.P. flange(Small)	Each	26.18
103	C.P. flange(Big)	Each	48.81
104	C.P.grating	Each	44.90
105	C.P. extension piece-2"	Each	71.81
106	C.P. extension piece-3"	Each	104.23
107	C.P. waste. (32mm - Small)	Each	218.87
108	C.P. waste. (32mm -5" long)	Each	304.26



Sl. No.	Name of items	Unit	Rate (in Rs.)
109	C.P. waste. (40mm-Small)	Each	297.78
110	C.P. waste. (40mm-5")	Each	351.12
111	C.P. Sink waste. (80/32)	Each	262.54
112	Urinal Domed Waste Coupling	Each	373.63
113	C.P. glass self with glass	Each	373.63
114	C.P. flush bend.	Each	222.05
115	Bevelled Edge Mirrior	Each	298.88
116	Frammed Mirrior	Each	373.63
117	CP Health Foucet with 1.0 mtr PVC Tube	Each	640.33
118	CP Jet spary with 1.0 mtr PVC Tube	Each	375.71
119	CP Telephonic shower with CP/PVC Flexible Tube with Hook.	Each	619.04
120	15 mm CP 2 in 1 Bib cock .	Each	1021.42
121	15 mm CP 2 in 1 Angle stop cock (Prayag).	Each	1109.99
122	Wall Mixture Non Telephonic Type	Each	1935.05
123	Wall Mixture 2 in 1 with out Telephonic Shower	Each	2876.34
124	Liquid Soap container	Each	416.32
125	Brass Spindle for Bib Cock/ Pillar Cock/ Stop Cock	Each	112.80
126	<b>Brass or Gun metal Full Way Valve(ISI Marked)</b>		
i	15mm dia	Each	500.49
ii	20mm dia	Each	643.63
iii	25mm dia	Each	1067.29
iv	32mm dia	Each	1560.45
v	40mm dia	Each	2004.30
vi	50mm dia	Each	3008.71
vii	65mm dia	Each	5533.93
viii	80mm dia	Each	7735.80
ix	100mm dia	Each	14629.42
127	<b>Brass/GM Ball Valve (ISI Marked)</b>		
i	15mm dia	Each	482.39
ii	20mm dia	Each	671.28
iii	25mm dia	Each	988.26
iv	32mm dia	Each	1604.12
v	40mm dia	Each	2412.06
vi	50mm dia	Each	3739.81
vii	65mm dia	Each	6565.99
viii	80mm dia	Each	9512.91
ix	100 mm dia	Each	16907.02
128	<b>Brass /GM Vertical Check/Non Return Valve. (ISI Marked)</b>		
i	15mm dia	Each	300.96
ii	20mm dia	Each	452.54
iii	25mm dia	Each	616.84

Sl. No.	Name of items	Unit	Rate (in Rs.)
iv	32mm dia	Each	1048.09
v	40mm dia	Each	1368.25
vi	50mm dia	Each	2439.83
vii	65mm dia	Each	4111.24
viii	80mm dia	Each	5776.16
ix	100mm dia	Each	10288.79
<b>129</b>	<b>Brass /GM Horizontal Check/Non Return Valve. (ISI Marked)</b>		
i	15mm dia	Each	457.31
ii	20mm dia	Each	666.75
iii	25mm dia	Each	1032.18
iv	32mm dia	Each	1678.50
v	40mm dia	Each	2294.00
vi	50mm dia	Each	3146.71
vii	65mm dia	Each	6077.48
viii	80mm dia	Each	8075.54
ix	100mm dia	Each	13781.23
<b>130</b>	<b>Water Meter (Domestic Type)</b>		
i	15 mm diameter	Each	705.29
ii	20 mm diameter	Each	901.16
iii	25 mm diameter	Each	1399.69
iv	32 mm diameter	Each	1604.86
v	40 mm diameter	Each	1820.17
vi	50 mm diameter	Each	1932.97
<b>131</b>	<b>Water Meter (Bulk Type)</b>		
i	50 mm diameter	Each	1938.11
ii	80 mm diameter	Each	2185.73
iii	100 mm diameter	Each	3391.63
iv	150 mm diameter	Each	4837.45
v	200 mm diameter	Each	5463.46
vi	250 mm diameter	Each	11869.30
vii	300 mm diameter	Each	16484.83
viii	350 mm diameter	Each	17427.70
ix	400 mm diameter	Each	22334.88
x	500 mm diameter	Each	35068.15
<b>132</b>	<b>G.I. Jam Nut</b>		
i	15mm dia	Each	6.48
ii	20mm dia	Each	7.59
iii	25mm dia	Each	8.56
iv	32mm dia	Each	10.64
v	40mm dia	Each	12.85
vi	50mm dia	Each	14.93
<b>133</b>	<b>Brass Bell Plug with rivets or 'J' hooks</b>		
i	32mm dia	Each	86.13
ii	50mm dia	Each	107.66

Sl. No.	Name of items	Unit	Rate (in Rs.)
iii	80mm dia	Each	129.19
iv	100mm dia	Each	150.72
134	Double Layer Rotational Moulded Cylindrical Vertical water storage tanks (ISI marked)	Litre	9.18
135	Double Layer Rotational Moulded Cylindrical Vertical water storage tanks.	Litre	7.34
136	3 - Layer White Rotational Moulded Cylindrical Vertical water storage tanks (ISI marked)	Litre	9.30
137	75mm dia S.C.I. S/S Pipe (ISI Marked)	1 RM	838.64
138	100mm dia S.C.I. S/S Pipe (ISI Marked)	1 RM	1057.02
139	100mm dia S.C.I. D/S Pipe (ISI Marked)	1 RM	1196.97
140	100mm dia S.C.I. S/J with door	Each	553.47
141	100mm dia S.C.I. D/J with door	Each	755.82
142	100mm dia S.C.I. S/J plain	Each	538.30
143	100mm dia S.C.I. D/J plain	Each	666.51
144	100mm dia S.C.I. door bend	Each	390.88
145	100mm dia S.C.I. plain bend	Each	371.42
146	100mm dia S.C.I. offset bend	Each	342.43
147	100mm dia S.C.I.H/R bend	Each	578.18
148	100mm dia S.C.I.Gully trap	Each	376.81
149	100mm dia S.C.I. P Trap	Each	641.67
150	100mm dia S.C.I. Cowl	Each	311.11
151	50mm dia S.C.I. S/S Pipe	1 RM	646.57
152	50mm dia S.C.I. D/S Pipe	1 RM	713.00
153	50mm dia S.C.I. S/J with door	Each	367.14
154	50mm dia S.C.I. S/J plain	Each	354.17
155	50mm dia S.C.I. door bend	Each	281.01
156	50mm dia S.C.I. plain bend	Each	258.38
157	50mm dia S.C.I. offset bend	Each	276.73
158	50mm dia S.C.I.cowl	Each	243.33
159	C.I. basin bracket(18"x12")	Pair	129.19
160	C.I. basin bracket(22"x16")	Pair	161.49
161	C.I. Sink bracket	Pair	322.98
162	300x300mm, HCI grating .	Each	177.64
163	150x150mm. HCI grating	Each	59.21
164	100mm. dia. HCI grating	Each	16.15
165	125mm. dia. HCI grating	Each	21.53
166	75mm OD P.V.C. SWR S/S Pipe (ISI type-A)	1 RM	136.16
167	90mm OD P.V.C. SWR S/S Pipe (ISI type-A)	1 RM	187.67

Sl. No.	Name of items	Unit	Rate (in Rs.)
168	110 mm OD P.V.C. SWR S/S Pipe (ISI type-A)	1 RM	243.82
169	160 mm OD P.V.C. SWR S/S Pipe (ISI type-A)	1 RM	551.02
170	75mm OD P.V.C. SWR D/S Pipe (ISI type-A)	1 RM	144.12
171	90mm OD P.V.C. SWR D/S Pipe (ISI type-A)	1 RM	186.57
172	110 mm OD P.V.C. SWR D/S Pipe (ISI type-A)	1 RM	261.44
173	160 mm OD P.V.C. SWR D/S Pipe (ISI type-A)	1 RM	560.93
174	75mm OD P.V.C. SWR S/S Pipe (ISI type-B)	1 RM	235.14
175	90mm OD P.V.C. SWR S/S Pipe (ISI type-B)	1 RM	278.08
176	110 mm OD P.V.C. SWR S/S Pipe (ISI type-B)	1 RM	350.50
177	160 mm OD P.V.C. SWR S/S Pipe (ISI type-B)	1 RM	661.49
178	75mm OD P.V.C. SWR D/S Pipe (ISI type-B)	1 RM	245.78
179	90mm OD P.V.C. SWR D/S Pipe (ISI type-B)	1 RM	286.89
180	110 mm OD P.V.C. SWR D/S Pipe (ISI type-B)	1 RM	366.53
181	160 mm OD P.V.C. SWR D/S Pipe (ISI type-B)	1 RM	679.48
182	75mm dia P.V.C. SWR S/J with door	Each	109.00
183	90mm dia P.V.C. SWR S/J with door	Each	170.42
184	110mm dia P.V.C. SWR S/J with door	Each	214.46
185	160mm dia P.V.C. SWR S/J with door	Each	500.25
186	75mm dia P.V.C. SWR D/J with door	Each	218.25
187	110mm dia P.V.C. SWR D/J with door	Each	270.98
188	75mm diaP.V.C. SWR door bend 87.5'	Each	87.72
189	90mm diaP.V.C. SWR door bend 87.5'	Each	123.81
190	110mm diaP.V.C. SWR door bend 87.5'	Each	166.38
191	160mm diaP.V.C. SWR door bend 87.5'	Each	354.42
192	75 mm dia P.V.C. SWR plain bend 87.5'	Each	63.98
193	90 mm dia P.V.C. SWR plain bend 87.5'	Each	73.16
194	110 mm dia P.V.C. SWR plain bend 87.5'	Each	131.27
195	160 mm dia P.V.C. SWR plain bend 87.5'	Each	317.59
196	75 mm dia P.V.C. SWR plain bend 45'	Each	56.28
197	90 mm dia P.V.C. SWR plain bend 45'	Each	88.82
198	110 mm dia P.V.C. SWR plain bend 45'	Each	105.70
199	160 mm dia P.V.C. SWR plain bend 45'	Each	271.96
200	110mm diaP.V.C. SWR offset bend	Each	349.28
201	110mm dia P.V.C. SWR H/R bend	Each	106.07

Sl. No.	Name of items	Unit	Rate (in Rs.)
202	75 mm dia P.V.C. SWR.pipe clip	Each	17.98
203	90 mm dia P.V.C. SWR.pipe clip	Each	19.45
204	110mm dia P.V.C. SWR.pipe clip	Each	23.37
205	160mm dia P.V.C. SWR.pipe clip	Each	50.16
206	110mm dia P.V.C. SWR P Trap	Each	281.01
207	110mm dia P.V.C. SWR Q Trap	Each	351.24
208	110mm dia P.V.C. SWR S Trap	Each	448.74
209	75 mm dia P.V.C. SWR Vent Cowl	Each	21.29
210	90 mm dia P.V.C. SWR Vent Cowl	Each	28.14
211	110 mm dia P.V.C. SWR Vent Cowl	Each	32.30
212	160 mm dia P.V.C. SWR Vent Cowl	Each	120.87
213	90mm dia P.V.C. Nahani Trap	Each	111.94
214	110mm dia P.V.C. Nahani Trap with out Jally	Each	124.54
215	110mm dia P.V.C. SWR Gully trap	Each	468.32
216	75mm dia PVC SWR Door cap	Each	38.05
217	90 mm dia PVC SWR Door cap	Each	45.27
218	110mm dia PVC SWR Door cap	Each	53.83
219	75 mm dia PVC SWR coupler	Each	47.22
220	90 mm dia PVC SWR coupler	Each	78.05
221	110mm dia PVC SWR coupler	Each	86.13
222	160mm dia PVC SWR coupler	Each	220.09
223	75 mm dia PVC SWR Repair coupler	Each	57.99
224	110mm dia PVC SWR Repaircoupler	Each	99.34
225	160mm dia PVC SWR Repaircoupler	Each	247.86
226	75 x 75 x 75mm dia PVC SWR Tee	Each	92.12
227	90 x 90 x 90 mm dia PVC SWR Tee	Each	147.30
228	110 x 110 x 110mm dia PVC SWR Tee	Each	184.37
229	160 x 160 x 160mm dia PVC SWR Tee	Each	291.66
230	75mm dia PVC SWR Single Y with door	Each	153.05
231	90mm dia PVC SWR Single Y with door	Each	198.31
232	110mm dia PVC SWR Single Y with door	Each	298.75
233	160mm dia PVC SWR Single Y with door	Each	700.64
234	75mm dia PVC SWR Double Y with door	Each	225.23
235	110mm dia PVC SWR Double Y with door	Each	386.84
236	PVC SWR Jalli 110mm dia	Each	13.95
237	75mm dia SWR DM Seal	Each	11.62
238	90 mm dia SWR DM Seal	Each	13.70
239	110 mm dia SWER DM Seal	Each	17.37
240	160 mm dia SWR DM Seal	Each	34.62
241	SWR W.C. Connector 110mm x 75 mm	Each	198.68
242	Lip Ring for P/Q/S Trap 125mm	Each	82.82
243	Porcelain 20" x 16"(500x400) W.H.B	Each	1255.45
244	Porcelain 22" x 16"(550x400) W.H.B	Each	1629.45

Sl. No.	Name of items	Unit	Rate (in Rs.)
245	Porcelain 16"x 16"(400x400) Angle Back W.H.B	Each	1175.32
246	Porcelain (1700x700x440) Bath Tub	Each	12073.73
247	Porcelain 18"x 12"(450x300) W.H.B	Each	828.12
248	Porcelain 16" x 16"(400x400) corner W.H.B	Each	1175.32
249	Porcelain Standard Pedestal for W.H.B	Each	2003.44
250	Porcelain 20" I.W.C.(Orissa Pan)	Each	1762.92
251	Porcelain 23" I.W.C.(Orissa Pan)	Each	2136.91
252	Porcelain E.W.C. with P-trap	Each	1923.31
253	Porcelain E.W.C. with S-trap	Each	1976.65
254	Porcelain A.I.W.C. with P-trap	Each	3926.62
255	Porcelain A.I.W.C. with S-trap	Each	4033.43
256	Porcelain Flat back standing Urinal (Small) 430 x 260 x 350	Each	1389.05
257	Porcelain Flat back standing Urinal (Medium)380 x 580 x 350	Each	1586.63
258	Porcelain Flat back stall type magnum Urinal	Each	5021.81
259	Porcelain Corner Urinal(CERA)	Each	993.65
260	Porcelain Squatting Urinal (600x355mm)	Each	1709.58
261	Porcelain Squatting Urinal (450x350mm)	Each	1602.65
262	Porcelain Urinal Spreader	Each	347.20
263	24"x 18"x10" Porcelain sink (Hindustan)	Each	2457.44
264	22"x 18"x 10" Porcelain sink (Hindustan)	Each	2030.11
265	24"x 18"x10" Porcelain sink (Cera/ Nycer)	Each	5294.26
266	24"x 16"x8" Porcelain sink (Cera/ Nycer)	Each	4824.11
267	Porcelain Counter Top Basin Oval Shape (550x430)	Each	2217.05
268	Porcelain Counter Top Basin Oval Shape (450x400)	Each	2030.11
269	Porcelain E.W.C. with S-trap (popular)Colour	Each	3064.37
270	Porcelain Laboratory Sink (450mm x 300mm) x 150mm	Each	1789.71
271	Porcelain Foot rest for IWC	Each	267.07
272	C.I. Basin Bracket in pair	Pair	160.27
273	C.I. Sink Bracket in pair	Pair	320.53
274	24"x 18"x10" Kadappa sink	Each	1015.05
275	22"x 18"x 10" Kadappa sink	Each	908.25
276	24"x 18" x 10" STEEL sink single bowl(Parry ware)	Each	5769.80
277	24"x 18"x 10" STEEL sink single bowl(Ordinary )	Each	2457.44
278	24"x 18" x 10"STEEL sink single bowl(Mousumi )	Each	3579.42
279	22"x 18"X8" STEEL sink single bowl(Mousumi )	Each	3290.95

Sl. No.	Name of items	Unit	Rate (in Rs.)
280	18"x 16"x8" STEEL sink single bowl(Mousumi )	Each	2735.28
281	36"x 18"x 10" STEEL sink single bowl with drain board(Parry ware)	Each	6692.85
282	40"x 20"x 10" STEEL sink single bowl with drain board(Parry ware)	Each	7673.78
283	10 litr pvc low level cistern with fittings	Each	1447.77
284	EWC PVC standard seat cover	Each	619.77
285	EWC PVC standard seat cover with Jet Spary	Each	833.38
286	10 litr pvc low level cistern with fittings- Colour	Each	1664.68
287	EWC PVC standard seat cover( Colour)	Each	726.58
288	32mmx800mm long PVC corrugated waste pipe	Each	51.87
289	32mmx 1150mm long PVC waste pipe	Each	72.55
290	40mmx800mm long PVC corrugated waste pipe	Each	57.99
291	40mmx1150mm long PVC corrugated waste pipe	Each	80.87
292	50mmx800mm long PVCcorrugated waste pipe	Each	66.43
293	50mmx800mm long PVC urinal waste pipe	Each	116.10
294	32mm x 800mm Long PVC Collapsed Waste Pipe	Each	51.87
295	15mmx300mm PVC connection pipe	Each	53.83
296	15mmx450mm PVC connection pipe	Each	66.43
297	15mmx600mm PVC connection pipe	Each	76.71
298	32 mm PVC long flush bend	Each	83.93
	<b>PT MT(PolyTetra Methylene Terephthalate) Bath Assets</b>		
299	15 mm Short body bib cock	Each	153.41
300	15 mm bib cock fancy with flange	Each	226.08
301	15 mm Long body bib cock	Each	263.28
302	15 mm Long body bib cock with foam flow	Each	277.83
303	20 mm standard bib cock	Each	261.20
304	15 mm Pillar cock	Each	246.76
305	15 mm angle cock	Each	194.89
306	15 mm conceal stop cock	Each	230.24
307	20 mm conceal stop cock	Each	250.92
308	15 mm conceal stop cock with brass body	Each	456.21
309	20 mm conceal stop cock with brass body	Each	477.00
310	100mm dia Round Grating	Each	43.55
311	125mm dia Round Grating Doom	Each	66.43
312	125mm dia Round Grating Doom with waste Hole	Each	66.43
313	140mm dia Round Grating	Each	80.87

Sl. No.	Name of items	Unit	Rate (in Rs.)
314	15mm dia Swiveling Shower	Each	156.72
315	Over Head Shower Round 3"	Each	202.60
316	Hand shower (1.5 Mtr Tube) with Hook	Each	380.36
317	Shower Arm 225 mm with Flange Round	Each	109.00
318	Shower Arm 225 mm with Flange Square	Each	141.43
319	Two in one Health Faucet with 1 .0 mtr Tube with Hook.	Each	370.81
320	Two in one Health Faucet with 1 .5 mtr Tube with Hook.	Each	428.19
321	Towel Rail 18"	Each	311.11
322	Towel Rail 24"	Each	377.42
323	Corner Shelf	Each	279.91
324	Soap dish /Oval	Each	186.69
325	Towel Ring	Each	192.81
326	Toilet Paper Holder	Each	159.65
327	32mm dia waste Coupling (H/T)	Each	82.95
328	32mm dia waste Coupling (F/T)	Each	82.95
329	32mm dia Urinal waste Coupling	Each	101.54
330	40 mm dia waste Coupling (F/T)	Each	114.02
331	2 way bib Cock 15mm	Each	412.65
332	2 way Angle Cock 15mm	Each	354.66
333	Towel Rack	Each	1285.67
334	Bath Room Mirror 600 x 600 mm	Each	1306.35
335	Mirror Cabinet(350mm x 450mm)	Each	2343.18
336	15 mm Ball Cock with Rod & Ball	Each	246.76
337	20 mm Ball Cock with Rod & Ball	Each	362.86
338	25 mm Ball Cock with Rod & Ball	Each	680.21
339	32 mm Ball Cock with Rod & Ball	Each	918.65
340	40 mm Ball Cock with Rod & Ball	Each	1138.37
341	50 mm Ball Cock with Rod & Ball	Each	1679.61
342	Teflon Tape	Each	27.04
343	<b>UPVC BALL VALVE Sch-80(Plastic Ball)</b>		
i	15 mm dia	Each	169.44
ii	20 mm dia	Each	235.50
iii	25 mm dia	Each	311.36
iv	32 mm dia	Each	525.69
v	40 mm dia	Each	776.00
vi	50 mm dia	Each	1098.86
vii	65 mm dia	Each	2897.87
viii	80 mm dia	Each	4932.26
ix	100 mm dia	Each	8468.37
344	<b>UPVC BALL VALVE Sch-80 (Solvent Welded with Metal Ball)</b>		
i	15 mm dia	Each	311.48
ii	20 mm dia	Each	382.68
iii	25 mm dia	Each	541.48



Sl. No.	Name of items	Unit	Rate (in Rs.)
iv	32 mm dia	Each	1121.25
v	40 mm dia	Each	1498.05
vi	50 mm dia	Each	2496.23
<b>345</b>	<b>CPVC Pipes As per IS 15778:2007</b>		
	<b>SDR 11</b>		
i	15 mm dia	1 RM	80.13
ii	20 mm dia	1 RM	117.69
iii	25 mm dia	1 RM	180.70
iv	32 mm dia	1 RM	280.28
v	40 mm dia	1 RM	382.56
vi	50 mm dia	1 RM	637.88
<b>346</b>	<b>3 layer PP-R (Poly propylene Random copolymer) pipes conforming to IS:15801</b>		
i	16 mm dia	1 RM	34.74
ii	20mm dia	1 RM	98.24
iii	25mm dia	1 RM	151.82
iv	32mm dia	1 RM	243.95
v	40mm dia	1 RM	366.04
vi	50mm dia	1 RM	573.41
vii	63mm dia	1 RM	883.42
viii	75mm dia	1 RM	1292.28
ix	90mm dia	1 RM	1833.51
x	110 mm dia	1 RM	2722.55
xi	160 mm dia	1 RM	7779.72
<b>347</b>	<b>STONE WARE Pipe</b>		
i	100 mm dia (0.60mtr)	1 RM	169.32
ii	150 mm dia (0.60mtr)	1 RM	248.84
iii	200 mm dia (0.60mtr)	1 RM	492.54
iv	225 mm dia (0.60mtr)	1 RM	596.16
v	250 mm dia (0.60mtr)	1 RM	691.10
vi	300 mm dia (0.60mtr)	1 RM	943.49
<b>348</b>	<b>C.I Hubless Pipes and fittings confirming to IS 15905</b>	1 RM	
<b>349</b>	<b>50mm dia 1800mm long C.I Hubless Pipe (New Item)</b>	1 RM	683.40
<b>350</b>	<b>75mm dia 1800mm long C.I Hubless Pipe (New Item)</b>	1 RM	715.20
<b>351</b>	<b>100mm dia 1800mm long C.I Hubless Pipe (New Item)</b>	1 RM	873.40
<b>352</b>	<b>150mm dia 1800mm long C.I Hubless Pipe (New Item)</b>	1 RM	1493.60
<b>353</b>	<b>50mm dia Plain Bend (New Item)</b>	Each	109.20
<b>354</b>	<b>75mm dia Plain Bend (New Item)</b>	Each	232.70
<b>355</b>	<b>100mm dia Plain Bend (New Item)</b>	Each	342.00
<b>356</b>	<b>150mm dia Plain Bend(New Item)</b>	Each	760.00
<b>357</b>	<b>75mm dia Door Bend(New Item)</b>	Each	299.20
<b>358</b>	<b>100mm dia Door Bend(New Item)</b>	Each	522.50

Sl. No.	Name of items	Unit	Rate (in Rs.)
359	150mm dia Door Bend( <b>New Item</b> )	Each	1054.50
360	100mm dia Single Branch Plain Y 45 degree( <b>New Item</b> )	Each	570.00
361	150mm dia Single Branch Plain Y 45 degree( <b>New Item</b> )	Each	1705.20
362	100mm dia Single Branch Door Y 45 degree( <b>New Item</b> )	Each	874.00
363	150mm dia Single Branch Door Y 45 degree( <b>New Item</b> )	Each	2204.00
364	100mm dia Double Branch Plain Y 45 degree( <b>New Item</b> )	Each	931.00
365	150mm dia Double Branch Plain Y 45 degree( <b>New Item</b> )	Each	2052.00
366	100mm dia Double Branch Plain T 88 degree( <b>New Item</b> )	Each	760.00
367	100mm dia Single Branch Doo T( <b>New Item</b> )	Each	688.70
368	150mm dia Single Branch Door T( <b>New Item</b> )	Each	2204.00
369	100mm dia Offset 65mm( <b>New Item</b> )	Each	389.50
370	150mm dia Offset 65mm( <b>New Item</b> )	Each	508.20
371	100mm dia Vent Cowel( <b>New Item</b> )	Each	408.50
372	150mm dia Vent Cowel( <b>New Item</b> )	Each	883.50
373	100mm dia End Plug( <b>New Item</b> )	Each	137.70
374	150mm dia End Plug( <b>New Item</b> )	Each	356.20
375	50mm dia Shielded (SS-304) Coupling ( <b>New Item</b> )	Each	356.20
376	75mm dia Shielded (SS-304) Coupling ( <b>New Item</b> )	Each	375.20
377	100mm dia Shielded (SS-304) Coupling ( <b>New Item</b> )	Each	413.20
378	150mm dia Shielded (SS-304) Coupling ( <b>New Item</b> )	Each	660.20
379	100mm dia P-Trap( <b>New Item</b> )	Each	798.00
380	150mm dia P-Trap( <b>New Item</b> )	Each	1615.00
381	W.C. Connector (Push Fit)( <b>New Item</b> )	Each	560.50
382	200x200mm Square Man Hole Cover -3.5 kg ( <b>New Item</b> )	Each	418.00
383	225x225mm Square Man Hole Cover -4.0 kg ( <b>New Item</b> )	Each	456.00
384	250x250mm Square Man Hole Cover -5.0 kg ( <b>New Item</b> )	Each	555.70
385	300x300mm Square Man Hole Cover -7.0 kg ( <b>New Item</b> )	Each	764.70
386	375x375mm Square Man Hole Cover -12.0 kg ( <b>New Item</b> )	Each	1220.70
387	400x400mm Square Man Hole Cover -14.0 kg ( <b>New Item</b> )	Each	1577.00
388	450x450mm Square Man Hole Cover -16.0 kg ( <b>New Item</b> )	Each	1676.70
389	450x450mm Square Man Hole Cover -30.0 kg ( <b>New Item</b> )	Each	3092.20
390	450x450mm Square Man Hole Cover -50.0 kg ( <b>New Item</b> )	Each	5001.70

Sl. No.	Name of items	Unit	Rate (in Rs.)
391	500x500mm Square Man Hole Cover -22.0 kg (New Item)	Each	2313.20
392	<b>Precast Re -inforced Concrete Pipes suitable for collar joint, Class NP-2 confirming to IS.No. 458/2003 with amendment No.1</b>		
i	100 mm dia	1 RM	195.64
ii	150 mm dia	1 RM	272.34
iii	200 mm dia	1 RM	337.93
iv	250 mm dia	1 RM	401.29
v	300 mm dia	1 RM	521.34
vi	350 mm dia	1 RM	600.26
vii	400 mm dia	1 RM	656.96
viii	450 mm dia	1 RM	795.91
ix	500 mm dia	1 RM	899.28
x	600 mm dia	1 RM	1263.89
xi	700 mm dia	1 RM	1645.17
xii	800 mm dia	1 RM	2000.88
xiii	900 mm dia	1 RM	2524.44
xiv	1000 mm dia	1 RM	3032.44
xv	1100 mm dia	1 RM	3467.08
xvi	1200 mm dia	1 RM	3980.64
393	<b>Re -inforced Concrete Collars Suitable for pipes of Class NP-2 confirming to IS.No. 458/2003 with amendment No.1</b>		
i	100 mm dia	Each	64.47
ii	150 mm dia	Each	75.59
iii	200 mm dia	Each	85.59
iv	250 mm dia	Each	106.71
v	300 mm dia	Each	132.28
vi	350 mm dia	Each	147.84
vii	400 mm dia	Each	158.96
viii	450 mm dia	Each	203.42
ix	500 mm dia	Each	238.99
x	600 mm dia	Each	291.24
xi	700 mm dia	Each	369.05
xii	800 mm dia	Each	479.10
xiii	900 mm dia	Each	571.36
xiv	1000 mm dia	Each	673.63
xv	1100 mm dia	Each	803.69
xvi	1200 mm dia	Each	958.20
394	<b>Precast Re -inforced Concrete Pipes suitable for Flush joint, Class NP-3 confirming to IS.No. 458/2003 with amendment No.1</b>		
i	100 mm dia	1 RM	187.86
ii	150 mm dia	1 RM	293.46
iii	200 mm dia	1 RM	425.74

Sl. No.	Name of items	Unit	Rate (in Rs.)
iv	250 mm dia	1 RM	528.01
v	300 mm dia	1 RM	815.91
vi	350 mm dia	1 RM	1236.10
vii	400 mm dia	1 RM	1431.74
viii	450 mm dia	1 RM	1578.47
ix	500 mm dia	1 RM	1791.90
x	600 mm dia	1 RM	2401.06
xi	700 mm dia	1 RM	2963.53
xii	800 mm dia	1 RM	3736.09
xiii	900 mm dia	1 RM	4644.26
xiv	1000 mm dia	1 RM	5665.83
xv	1100 mm dia	1 RM	6495.08
xvi	1200 mm dia	1 RM	7416.60
<b>395</b>	<b>Precast Re -inforced Concrete Pipes suitable for Flush joint, Class NP-4 confirming to IS.No. 458/2003 with amendment No.1</b>		
i	100 mm dia	1 RM	235.66
ii	150 mm dia	1 RM	331.26
iii	200 mm dia	1 RM	493.55
iv	250 mm dia	1 RM	626.94
v	300 mm dia	1 RM	865.94
vi	350 mm dia	1 RM	1439.52
vii	400 mm dia	1 RM	1585.14
viii	450 mm dia	1 RM	1761.89
ix	500 mm dia	1 RM	2035.34
x	600 mm dia	1 RM	2934.62
xi	700 mm dia	1 RM	3799.45
xii	800 mm dia	1 RM	4811.00
xiii	900 mm dia	1 RM	5740.30
xiv	1000 mm dia	1 RM	7279.87
xv	1100 mm dia	1 RM	8400.36
xvi	1200 mm dia	1 RM	9637.57
<b>396</b>	<b>Precast Re -inforced Concrete Pipes of Class - NP-2 suitable for Spigot &amp; Socket Joint confirming to Specification</b>		
i	100 mm dia (1.93m effective length)	Each	565.46
ii	150 mm dia (1.93m effective length)	Each	674.22
iii	200 mm dia (1.93m effective length)	Each	804.75
iv	250 mm dia (2.43m effective length)	Each	1114.64
v	300 mm dia (2.423m effective length)	Each	1549.68
vi	350 mm dia (2.423m effective length)	Each	1794.36
<b>397</b>	<b>Precast Re -inforced Concrete Pipes of Class - NP-3 suitable for Spigot &amp; Socket Joint confirming to Specification</b>		
i	100 mm dia (1.93m effective length)	Each	598.12
ii	150 mm dia (1.93m effective length)	Each	728.66

Sl. No.	Name of items	Unit	Rate (in Rs.)
iii	200 mm dia (1.917m effective length)	Each	924.40
iv	250 mm dia (2.417m effective length)	Each	1337.54
v	300 mm dia (2.41m effective length)	Each	1957.44
vi	350 mm dia (2.38m effective length)	Each	3425.52
vii	400 mm dia (2.38m effective length)	Each	3806.12
viii	450 mm dia (2.38m effective length)	Each	4241.16
ix	500 mm dia (2.38m effective length)	Each	4757.68
x	600 mm dia (2.35m effective length)	Each	6089.84
xi	700 mm dia (2.35m effective length)	Each	7253.42
xii	800 mm dia (2.35m effective length)	Each	9232.63
xiii	900 mm dia (2.35m effective length)	Each	10548.40
<b>398</b>	<b>Rubber Ring for RCC Hume Pipe(NP-2 &amp; NP-3) Spigot &amp; Socket Joint Pipes.</b>		
i	100 mm dia	Each	38.05
ii	150 mm dia	Each	43.55
iii	200 mm dia	Each	48.94
iv	250 mm dia	Each	54.32
v	300 mm dia	Each	65.21
vi	350 mm dia	Each	86.98
vii	400 mm dia	Each	146.81
viii	450 mm dia	Each	184.86
ix	500 mm dia	Each	217.52
x	600 mm dia	Each	260.95
xi	700 mm dia	Each	353.44
xii	800 mm dia	Each	407.76
xiii	900 mm dia	Each	522.02
<b>399</b>	Oxygen(As per Market Rate )	Kg	48.99
<b>400</b>	Dimethelene Acetylene Gas(As per Market rate)	Kg	98.26
<b>401</b>	Electrode(aAs per Market Rate)	Pkt	700.00

## 1.8 Guiding Principles for PH Materials and Items of Works

The Schedule of Rates 2022 has been finalized taking into account the following considerations.

1. Labour and material rates, hire charges of equipments and machines etc are being considered , as per Works Department Notification No 13827 dated 16.09.2017 for civil item of works.
2. The rates of materials like PVC pipes and RCC pipes are based on prevailing rate concluded by EP&M rate contract for PH materials and subject to variation from time to time depending on the price variation clause of rate contract.
3. The rate of D.I Pipes, M.S Pipes, C.I Pipes, G.I Pipes are being considered taking the lowest one among the Whole Sale Price Index (WPI) and the prevailing market rate. The Whole sale price index (WPI) of All Commodities declared by the Economic Adviser, Ministry of Commerce and industries for the month of November 2017 was 116.40 and for the month of December 2021 was 142.40, thus increase in Whole Sale Price Index (WPI) is 22.34 %, which has been considered, being lowest one.
4. In case of store items for which EP&M rate contract exist, the rates concluded by Director of Export Promotion and Marketing (EP&M) will prevail as per industrial policy of Government of Odisha.
5. The items not covered under EP&M rate Contract, but indicated in the list of materials are derived basing on earlier SOR-2017 with addition of increase in Whole Sale Price Index (WPI) 116.40 to 142.40 i.e 22.34%.
6. The lump sum provision of rates against certain items indicated in schedule of rates is taken, being derived from SOR-2017, taking materials and labour component @ 70% and 30% respectively. For material component of 70%, the increase in Whole Sale Price Index (WPI) i.e 22.34% as stated above and the labour component, the increase in labour rate as per Labour Commissioner, Odisha (from 2017 to till date) i.e 57.33%.
7. Some extra items as per requirement have been considered in this SOR, for which rates are taken as per prevailing market rates and practical observations.

All the rates proposed in this Schedule of Rates are exclusive of GST, conveyance and all other taxes if any etc as applicable.

## **CHAPTER 2**

# **RATES OF LABOUR**

## Chapter – 2

### RATES OF LABOUR

Sl. No	DESCRIPTION	UNIT	RATE in Rs.
1	2	3	4
<b>2.1</b>	<b>Category Unskilled</b>		
1	Male mulia	Per day	315.00
2	Female mulia	Per day	315.00
3	Survey Khalasi/ Chain man	Per day	315.00
4	Scavanger	Per day	315.00
<b>2.2</b>	<b>Category Semi skilled</b>		
1	Mulia working in water or arduous nature of work	Per day	355.00
2	Night mulia or attendant working in flood and other emergent work	Per day	355.00
3	Mulia for handling hot binder and Tar boiler men	Per day	355.00
4	Sangi mulia	Per day	355.00
5	Pile driving mate( Guide man )	Per day	355.00
6	Mate	Per day	355.00
7	Helper to carpenter or Blacksmith/ Painter/ Blaster/ Plumber/ Electrician/ Fitter/ Welder	Per day	355.00
8	Hammer man	Per day	355.00
9	Thatcher/ Gharami	Per day	355.00
10	Tile turner	Per day	355.00
11	Boat man	Per day	355.00
12	Bhisti	Per day	355.00
13	Well sinker	Per day	355.00
14	Rod binder and bender	Per day	355.00
15	Cleaner/ Sweeper	Per day	355.00
16	Stone packer	Per day	355.00
17	Pump helper	Per day	355.00
18	Watch man( Store)/Gurkha / Security Guard	Per day	355.00
19	Bellow man	Per day	355.00
<b>2.3</b>	<b>Category Skilled</b>		
1	Blaster (licensed)	Per day	405.00
2	Mason (special)	Per day	405.00
3	Carpenter(special)	Per day	405.00
4	Blacksmith(special)	Per day	405.00
5	Fitter(special)	Per day	405.00
6	Painter/ Polisher(special)	Per day	405.00
7	Welder(special)	Per day	405.00



Sl. No	DESCRIPTION	UNIT	RATE in Rs.
1	2	3	4
8	Plumber(special)	Per day	405.00
9	Driller (Special)	Per day	405.00
10	Stone dresser/ Cutter(special)	Per day	405.00
11	Cobbler with Tolls (Second Class)	Per day	405.00
12	Wire man/ Lift operator / Diesel	Per day	405.00
	pump driver/ Telephone operator		
	( Second class )		
13	Boring Mistry/ Pipe driver	Per day	405.00
14	Electrician/ Rigger/ Line mar/	Per day	405.00
	Telephone attendant		
15	Gardener	Per day	405.00
16	Amin	Per day	405.00
17	Tracer	Per day	405.00
18	Jr. progress recorder	Per day	405.00
19	Store keeper Gr.- IV Store Asst./	Per day	405.00
	Account clerk/ Clerk/ Typist/		
	Tool keeper/ Time keeper/ Munsif		
<b>2.4</b>	<b>Category Highly Skilled</b>		
1	Blaster (licensed)	Per day	465.00
2	Mason (special)	Per day	465.00
3	Carpenter(special)	Per day	465.00
4	Blacksmith(special)	Per day	465.00
5	Fitter(special)	Per day	465.00
6	Painter/ Polisher(special)	Per day	465.00
7	Welder(special)	Per day	465.00
8	Plumber(special)	Per day	465.00
9	Driller (Special)	Per day	465.00
10	Stone dresser/ Cutter(special)	Per day	465.00
11	Diver for well sinking in bridge (per shift of four hours.)	Per day	465.00

Sl. No	DESCRIPTION	UNIT	RATE in Rs.
1	2	3	4
12	Electrician/ Air conditioned plant operator/ wire man/ Lift operator/ Diesel pump operator (special).	Per day	465.00
13	Jeep driver/ Tractor driver / Truck driver / Dozer driver / Roller driver /Concrete mixture operator / Crane operator	Per day	465.00
14	Auto electrician	Per day	465.00
15	Guiniting Machine operator	Per day	465.00
16	Senior Accountant / Stenographer	Per day	465.00
17	Supervisor / Manager	Per day	465.00
18	Testing Laboratory Assistant / Instrument Mechanic/ Telephone Mechanic.	Per day	465.00
19	Rigger and Cobbler with Tools Driver (Heavy Vehicle)	Per day	465.00

**NOTES:**

1. Labour rates for un-skilled, Semi-skilled, Skilled and Highly skilled are to be fixed from time to time by Labour and ESI Department under Minimum Wages Act shall prevail in respect of any category what so ever. Above rates are fixed similar to corresponding minimum wages for unskilled/ semiskilled/skilled/ highly skilled category as per Labour and ESI Department Notification No.5639 dtd. 02.11.2021.
2. The rates for above four categories of labour are inclusive of weekly day rest.
3. An adult Employee shall work for 8 (Eight) hours per day including half-an hour of rest.

Sl No.	Description	Unit	Rate in
			(Rs.)
2.5.	<b>Other Category</b>		
	<b>(Not covered by the Notification of Labour &amp; ESI Department).</b>		
1	Boring Mistry (Special)	Per Day	465.00
2	Winch operator	Per Day	465.00
3	Well Sinker (Special)	Per Day	465.00
4	Helper to Well Sinker	Per Day	405.00
5	Computer Programmer	Per Month	15878.00
6	Data Entry Operator	Per Month	12150.00
7	Helper to operator of Heavy construction Machineries	Per Month	11342.00
8	Mechanic for Heavy construction Machineries	Per Month	13610.00
9	Helper to mechanic for heavy construction Machineries	Per Month	11342.00
10	Operator for Heavy construction Machineries	Per Month	13610.00
11	Junior Research Assistant (Technical Assistant)	Per Month	12150.00

**NOTE:**

1. For item no. 5 to 11, the amount mentioned above is inclusive of the ESI/EPF dues of the Employer's share wherever applicable.

# **CHAPTER 3**

  

# **RATES FOR CONVEYANCE OF MATERIALS**

## Chapter – 3

### RATES FOR CONVEYANCE OF MATERIALS

#### 3.1 Conveyance of Materials by Ten Tonne Trucks including loading & unloading.

Distance to be carried	Rough stone, metal, khoa, chips, sand, surki, quarry rubbish, moorum laterite stone, washed gravel, flyash & earth (Per 1 cum)	Bricks 23cm= 2500 nos Bricks 25cm= 2000 nos Cement concrete & fly ash blocks 400mmx200mmx200mm= 300 nos 400mmx150mmx200mm= 400 nos 400mmx100mmx200mm= 600 nos 300mmx200mmx150mm= 550 nos 300mmx150mmx150mm= 730 nos 300mmx100mmx150mm= 1100 nos All Kinds of tiles = 180 Sqm (per truck)	Iron, Grills, Cement, Bitumen, A.C sheet, GCI Sheet & Paint etc(per 1000 kg) Wood (per 1.25 cum)		Bulky materials like Machineries, generators, concrete pipe & furniture etc (per Truck)
			Railway station	Other places	
1	2	3	4	5	6
Up to 5 KM	260.05	1621.88	246.34	229.11	2251.78
Every extra KM beyond 5 KM and up to 50 Km	12.64	57.48	11.29	11.29	59.00
Every extra KM beyond 50 KM	8.94	46.24	9.59	9.59	46.24

**NOTE:**

**Extra percentage to be allowed over the rates**

1. For earthen roads or village tracks or cross country tracks, 20 % extra may be allowed on the certificate of Executive Engineer after his inspection and duly approved by Superintending Engineer.
2. For declared ghat road, add extra length of ghat road portion

**3.2 Loading into Trucks and Unloading from trucks (within 50 m lead) including**

Sl. No	Details of materials	Unit	Proposed Rate (in Rs.)
1	Rough stone, metal, khoa, chips, sand, surki, quarry rubbish, moorum, laterite stone, washed gravel, & earth etc.	1 Cum	165.90
2	Iron, grills, cement, Bitumen, A.C sheet, GCI Sheet ,Coke,coal lime etc	1 qtl.	23.10
3	Bricks 23cm= 2500 nos Bricks 25cm= 2000 nos Cement concrete & flyash blocks 400mmx200mmx200mm= 300 nos 400mmx150mmx200mm= 400 nos 400mmx100mmx200mm= 600 nos 300mmx200mmx150mm= 550 nos 300mmx150mmx150mm= 730 nos 300mmx100mmx150mm= 1100 nos All kinds of tiles= 180 Sqm	1 truck load	940.80
4	Bulky material such as a) Hume pipes & furnitures	1 truck load	1283.10
	b) Heavy machineries such as compressors ,concrete mixer, hotmix plant etc.	1 truck load	1528.80

- Note :
- a) For item no . 1
    - i) 2/3 of rate is considered for loading
    - ii) 1/3 of rate is considered for unloading
  - b) for item no 2,3 & 4
    - i) 50 % of rate is considered for loading
    - ii) 50 % of rate is considered for unloading

**3.3 Carriage by Bullock Cart including loading and unloading**

Sl. No	Distance to be carried.	Unit	Proposed Rate (in Rs.)
1	First KM	1 cart load	140.70
2	Subsequent KM	1 cart load	71.40

**3.4 Unloading from Railway wagon and loading into trucks**

Sl. No	Details of materials.	Unit	Proposed Rate (in Rs.)
1	Unloading from Railway wagon and stacking on platform 1.0 m in clear of rails within 15 m lead a) Cement, Bitumen, coal, paint etc	1 Qtl.	3.36
	b) Steel, A.C sheet, GCI Sheet , etc	1 Qtl.	12.18
2	Removing from railway platform and loading into trucks a) Cement, Bitumen, coal, paint etc	1 Qtl.	3.36
	b) Steel, A.C sheet, GCI Sheet , etc	1 Qtl.	12.18

**3.5 Conveyance by Head load including loading & unloading and stacking**

Sl. No	Distance to be carried.	Rough stone, metal, khoa, chips, sand, surki, quarry rubbish, moorum, laterite stone, moorum, washed gravel, fly ash & earth (per cum)	Iron, grills, cement,lime, Bitumen, A.C sheet, GCI Sheet, paint etc (per 1 quintal), wood ( per 0.125 cum)
1	2	3	4
		Rate (in Rs.)	Rate (in Rs.)
1	Up to 50 mtr.	69.30	17.43
2	Beyond 50 mtr and upto 100 mtr	79.80	26.04
3	Beyond 100 mtr and upto 150 mtr	105.00	37.80

**3.6 Conveyance by Boat including loading & unloading**

Distance to be carried.	Rough stone, metal, khoa chips, sand, surki, quarry rubbish, moorum, laterite stone, moorum, washed gravel, fly ash & earth (per cum)	Bricks 23cm= 2500 nos Bricks 25cm= 2000 nos Cement concrete & flyash blocks 400mmx200mmx200mm= 300nos 400mmx150mmx200mm= 400nos 400mmx100mmx200mm=600 nos 300mmx200mmx150mm=550 nos 300mmx150mmx150mm=730 nos 300mmx100mmx150mm=1100 nos All kind of Tiles=180 Sqm	Iron, grills, cement, lime, Bitumen, A.Csheet, GCI Sheet & paint etc (per 1 quintal) wood (per 0.125 cum)
1	2	3	4
	Rate (in Rs.)	Rate (in Rs.)	Rate (in Rs.)
A) In River			
i)Up to 5 KM.	102.9	588	17.64
ii)Every extra KM beyond 5.00 Km and upto 16 KM	10.92	51.87	1.47
iii)Every extra KM beyond 16 KM	5.46	37.80	1.26
B) In canal			
i)Up to 5 KM.	71.4	515.55	14.7
ii)every extra KM beyond 5.00 Km and upto 16 KM	12.18	43.68	1.89
iii)every extra KM beyond 16 KM	5.46	33.6	1.47



### 3.7 Capacity of Trucks

Sl. No.	Description of Items	Capacity
1	2	3
1	Rough stone and cut laterite stones	
i).	Rough stone(Boulders)	4.00 Cum
ii)	Cut laterite stone	5.00 Cum
2	Gravel, sand & surki	5.50 Cum
3	Cut stone (granite & hard stone)	5.50 Cum
4	Lime	5.50 Cum
5	Wood	5.00 Cum
6.(a)	Bricks 25 cm	2000 Nos
b)	Bricks 23 cm	2500 Nos
c)	Cement concrete & flyash blocks	
	400mm x 200mm x 200mm	300 Nos
	400mm x 150mm x 200mm	400 Nos
	400mm x 100mm x 200mm	600 Nos
	300mm x 200mm x 150mm	550 Nos
	300mm x 150mm x 150mm	730 Nos
	300mm x 100mm x 150mm	1100 Nos
d)	All kinds of tiles	180.00 Sqm
7	Iron, tar, pitch and other materials considered by weight	7.00 tonnes
8	Cement	8.00 tonnes
9	Straw for thatching	1000 Nos or 100 head loads or 50 Bhar loads
10	Bamboos	30 Bhar loads
11	Hume pipe up to 600mm diameter	5 Nos
12	Hume pipe 900mm & above diameter	3 Nos

#### NOTE:-

Where materials are to be conveyed by head loads or by pack animals, rates are to be worked out on actual analysis and approved by the Superintending Engineer.

### 3.8 Head Loads

Sl.No.	Description of Items	Capacity
1	2	3
1	Each head load of straw	1 bundle of 1.5 mtr. in girth
2	Each bhar load of straw	2 bundle of 1.5 mtr. in girth
3	Each head load of bamboo	Belangi 10 Nos., muli 3 nos
4	Each bhar load of bamboo	Belangi 20 Nos., muli 6 nos

### 3.9 Cart Load of Materials

Sl No	Description of Items	Quantity per cart load	
		Plain Road	Hilly Road
1	2	3	4
1	Rough stone cut laterite stone	0.28 cum	0.23 cum
2	Gravel , Sand & Surki	0.36 cum	0.28 cum
3	Cut Stone (granite & hard Stone)	0.20 cum	0.15 cum
4	Lime and wood	0.60 cum	0.42 cum
5	Bricks	200 nos	150 nos
6	Cement concrete & flyash blocks	30 nos	22 nos
	400mm x 200 mm x 200 mm	40 nos	30 nos
	400mm x 150 mm x 200 mm	60 nos	45 nos
	400mm x 100 mm x 200 mm	55 nos	41 nos
	300mm x 200 mm x 150 mm	73 nos	55 nos
	300 mmx 150 mmx150 mm	110 nos	82 nos
7	Pan tiles	1000 nos	800 nos
8	Flat tiles		
i)	15cmx15cmx1.25cm	2000 nos	1600 nos
ii)	30cmx15cmx2.5cm	500 nos	400 nos
iii)	30cmx30cmx2.5cm	250 nos	200 nos
9	Nuria Tiles – 20 cm x 25 cm	800 nos	600 nos
10	Mangalore and Ranigang tiles	250 nos	200 nos
11	Iron , Cement,tar,Pitch and other materials by weight	454 kg	363 kg

**NOTE:-** The rates of conveyance of materials are exclusive of voids of materials.

## **CHAPTER 4**

# **HIRE CHARGES OF PLANTS AND MAHINERIES**

**Chapter – 4**  
**HIRE CHARGES OF PLANTS AND MATERIALS**  
**(Excluding GST)**

Sl. No.	DESCRIPTIONS		Output	USAGE RATES IN RS	
	Machine	Activity		Unit	Rate (in Rs.)
1	Dozer D-50 -A 15	Spreading	200cum/hour	per hour	2834.00
		Cutting	100cum/hour	per hour	
		Cleaning	150cum/hour	per hour	
2	Dozer D-80-A 12	Spreading	300cum/hour	per hour	3898.96
		Cutting	150cum/hour	per hour	
		Cleaning	250cum/hour	per hour	
3	Motor Grader 3.35meter blade	Clearing	200cum/hour	per hour	2391.39
		Spreading	200cum/hour	per hour	
		GSB	50cum/hour	per hour	
		WMM	50cum/hour	per hour	
4	Tractor with ordinary grader			per hour	447.31
5	Hydraulic Excavator of 1cum bucket	Soil ordinary	60cum/hour	per hour	1300.16
		Soil Marshy	60cum/hour	per hour	
		Soil unsuitable	60cum/hour	per hour	
6	Hydraulic Excavator of 2cum bucket	Soil		per hour	2891.34
7	Front End loader 1 cum bucket capacity	Soil loading	60cum/hour	per hour	804.86
		Aggregate loading	25cum/hour	per hour	
8	Tipper-5.5cum	Transportation of soil, GSB, WMM, Hotmix etc.	5.5cum	per km.	37.15
				per tonne.km	3.86
				per hour	900.84
				per hour	900.84

Sl. No.	DESCRIPTIONS		USAGE RATES IN RS		
	Machine	Activity	Output	Unit	Rate (in Rs.)
9	Vibratory Roller 8-10 tonne	Earth/soil	100cum/hour	per hour	1538.54
		GSB	60cum/hour	per hour	
		WMM	60cum/hour	per hour	
10	Smooth wheeled Roller 8 - 10 tonne	Soil compaction	70cum/hour	per hour	524.70
		BM compaction	25cum/hour	per hour	
11	Sheep foot Roller	Soil compaction		per hour	100.60
12	Truck mounted water tanker	Water transport	6KL	per hour	900.84
13	Tractor	Pulling	50HP	per hour	357.55
14	Rotavator	Mixing	25cum/hour	per hour	16.49
15	Ripper	Scarifying	60cum/hour	per hour	21.00
16	Air Compressor	General purpose	170/250cfm	per hour	585.00
17	Diesel Compressor		400cfm	per hour	1324.94
18	Diesel Compressor		300cfm	per hour	1019.42
19	Electrical Compressor		500cfm	per hour	769.26
20	Wet Mix Plant 60 TPH	Wet Mix	25cum/hour	per hour	1400.00
21	Wet Mix Plant 75 TPH	Wet Mix	34cum/hour	per hour	1700.00
22	Mechanical broom hydraulic	Surface cleaning	1250sqm/hour	per hour	356.00
23	Bitumen pressure distributor	Applying bitumen tack coat	1750sqm/hour	per hour	1071.10
24	Emulsion pressure distributor	Applying emulsion tack coat	1750sqm/hour	per hour	798.68

Sl. No.	DESCRIPTIONS		USAGE RATES IN RS		
	Machine	Activity	Output	Unit	Rate (in Rs.)
25	Hotmix plant -120 TPH	DBM/BM/SDC/ Premix	40cum/hour	per hour	23372.17
26	Hotmix plant -100 TPH	DBM/BM/SDC/ Premix	30cum/hour	per hour	17086.38
27	Hotmix plant -60 to 90TPH	DBM/BM/SDC/ Premix	25cum/hour	per hour	13822.09
28	Hotmix plant -40 to 60TPH	DBM/BM/SDC/ Premix	17cum/hour	per hour	11066.95
29	Hotmix plant -8 to 10TPH	Premix	cum/hour	per hour	1586.51
30	Paver Finisher Hydrostatic with sensor control 100 TPH	Paving of DBM /BM /SDC/Premix	40cum/hour	per hour	1682.50
31	Paver Finisher Mechanical 100 TPH	Paving of WMM/PMC	40cum/hour	per hour	1143.90
		Paving of DLC	30cum/hour	per hour	
32	Paver Finisher Mechanical	Paving of DLC	75cum/hour	per hour	1840.87
33	Hydraulic Chips Spreader	Surface Dressing	1500sqm/hour	per hour	1589.19
34	Tandem Road Roller	Rolling of Asphalt surface	30cum/hour	per hour	1142.30
35	Pneumatic Road Roller	Rolling of Asphalt surface	25cum/hour	per hour	1009.83
36	Pot hole repair machine	Repair of pot holes	4cum/hour	per hour	621.44
37	Bitumen boiler oil fired	Bitumen spraying	1500Litre	per hour	198.11
38	Tar boiler	Bitumen spraying		per hour	114.54
39	GSB Plant 50 cum	Producing GSB	40cum/hour	per hour	1037.04
40	Mastic Cooker	Mastic Wearing Coat	1tonne	per hour	2454.85
41	Batching and Mixing plant 15-20cum	Concrete Mixing	13cum/hour	per hour	1772.48
42	Batching and Mixing plant 30cum	Concrete Mixing	20cum/hour	per hour	2074.61
43	Batching and Mixing plant 112.5cum	Concrete Mixing	75cum/hour	per hour	3328.34

Sl. No.	DESCRIPTIONS		Output	USAGE RATES IN RS	
	Machine	Activity		Unit	Rate (in Rs.)
44	Batching and Mixing plant 262.5cum	Concrete Mixing	175cum/hour	per hour	8791.61
45	Transit Mixer	Transportation of concrete mix to site	4.5cum/hour	per hour	928.64
			3cum/hour	per hour	851.25
46	Grout pump			per hour	500.00
47	Concrete pump of 45 & 30 cum	Pumping Concrete	33cum/hour	per hour	1278.00
48	Pump with 5HP diesel engine	Pumping of Water		per hour	195.57
49	Pump with 10HP diesel engine	Pumping of Water		per hour	288.07
50	Pump with 20HP diesel engine	Pumping of Water		per hour	480.00
51	Pump with 40HP diesel engine	Pumping of Water		per hour	720.00
52	Pump with 40HP electrical			per hour	580.00
53	Pump with 50HP electrical			per hour	630.00
54	Cranes 80 tonnes	Lifting purpose		per hour	1276.95
55	Cranes 35 tonnes	Lifting purpose		per hour	1051.30
56	Cranes 3 tonnes	Lifting purpose		per hour	560.00
57	Crawler mounted Crane (18T)	Lifting purpose		per hour	2048.27
58	Tower Crane	Lifting purpose		per hour	852.85
59	Welding transformer	Welding		per hour	153.75
60	Gunning machine without compressor			per hour	180.00
61	Mechanical Winch (10T)			per hour	208.52
62	Power Winch (40HP)			per hour	600.00
63	Concrete Bucket	For pouring concrete	1cum	per hour	60.00

Sl. No.	DESCRIPTIONS		Output	USAGE RATES IN RS	
	Machine	Activity		Unit	Rate (in Rs.)
64	Kerb casting machine	Kerb making	80RM/hour	per hour	309.55
65	Concrete Mixer a)04/0.28 cum	Concrete Mixing	2.5cum/hour	per hour	224.78
	b)01cum		7.5cum/hour		
66	Vibrator (3HP diesel)	Compacting Concrete		per hour	182.52
67	Piling Rig with Bantonite Pump	0.75m dia to 1.2m dia Boring Attachment	2 to 3RM/hour	per hour	4341.77
68	Concrete Paver Finisher with 40HP Motor	Paving of Concrete Surface	20cum/hour	per hour	2863.48
69	Integrated stone crusher	Crushing of Spalls	100TPH	per hour	8243.29
		Crushing of Spalls	200TPH	per hour	16486.58
70	Stone crusher (electrical)	Crushing of Spalls		per hour	400.00
71	Crushing & processing plant (electrical)			per hour	359.91
72	Concrete Paver Finisher with 40HP Motor	Paving of Concrete Surface	175cum/hour	per hour	25056.20
73	Prestressing Jack with Pump & Access	Stressing of Steel Wires/Stands		per hour	360.00
74	Generator 100KVA	Generation of Electric Energy	100KVA	per hour	840.46
75	Generator 250KVA	Generation of Electric Energy	100KVA	per hour	1360.08
76	Generator 33KVA	Generation of Electric Energy	50KVA	per hour	609.37
77	Generator 40KVA	Generation of Electric Energy	KVA	per hour	729.48
78	Generator 125KVA	Generation of Electric Energy	KVA	per hour	1104.80
79	Pneumatic Sinking Plant	Pneumatic Sinking of wells	1.5 to 2.0 cum/hour	per hour	3800.00
80	Truck 5.5cum per 10 tonnes	Material Transport	4.5cum	Per Km.	30.95
				per tonne.km	3.10



Sl. No.	DESCRIPTIONS			USAGE RATES IN RS	
	Machine	Activity	Output	Unit	Rate (in Rs.)
				per hour	862.19
81	Road Marking machine	Road marking	100sqm/hour	per hour	300.00
82	Mobile Slurry Seal Equipment	Mixing and laying slurry seal	2700sqm/hour	per hour	960.00
83	Wagon drill			per hour	1232.30
84	Dimond drill			per hour	500.00
85	Inwell rings			per hour	160.00
86	Jack hammer			per hour	31.88
87	Pneumatic rammer			per hour	59.78
88	Pusher leg			per hour	12.26

## **CHAPTER 5**

# **EARTH WORK**

## Chapter – 5 EARTH WORK

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

### **SPECIAL NOTE:**

1. Ordinary Soil – Light black cotton, Sandy earth, sandy loam, dry silt, fragile, red earth, soft earth and soft moorum.
2. Hard soil – Hard stiff clay, stiff black cotton, hard red earth, shales, moorum ordinary gravels.
3. Stoney Earth – Earth mixed with gravel and boulders not exceeding 0.014 Cum. in volume
4. Slushy soil – A soil having the characteristic of liquid mud with negligible bearing capacity which can be removed with the aid of pans and vessels only.
5. For excavation of foundation including dressing and leveling the bed and depositing the soil with initial lead of 50m. and initial lift of 1.5m add extra 20 per cent over the respective rates of earth work in excavation.
6. Dewatering during excavation to be paid as per actuals.
7. The rate for extra lead and lift for blasted stone work will be double of the respective rate of leads and lifts for earth work.
8. In the event of any difference in opinion regarding classification of soil the decision of the Engineer-in-Charge (E.E.) is final and binding.
9. 10% excess on the above rates will be allowed on the works being executed in side jail premises

## **CHAPTER 6**

# **SPECIAL ITEMS FOR IRRIGATION WORKS**

## **Chapter – 6**

### **SPECIAL ITEMS FOR IRRIGATION WORKS**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

#### **SPECIAL NOTE:**

1. Rate of any other item for dam construction will be adopted as specified in other chapters of this Schedule of Rates 2022.

# CHAPTER 7

# CONCRETE

## Chapter – 7 CONCRETE

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

### **SPECIAL NOTE:**

1. If more than 15 per cent of plums are used in cement concrete similar analysis based on the respective percentage of plums is to be worked out.
2. If variation of size and nature of metal or stone is involved due to change in specification of items, the difference in cost of such metal or stone should be taken into consideration and rate arrived at.
3. If stone lime is used in the work add difference in cost of lime to the respective item of works.
4. The rates have been arrived using hand broken metals and chips and if crusher broken metal and chips are used the difference in cost should be added to arrive at the finished rates.
5. For C.C. work in 1st floor and subsequent upper floor add 15 per cent extra labour over and above the rates from the next lower floor.
6. For cement concrete work below ground level beyond 1.5m and upto 4.5m depth add 15 per cent extra labour over and above the rates of the respective items for lowering the materials.
7. For cement concrete work below ground level beyond 4.5m and upto 7.5 m depth add 20 per cent extra labour over and above the rates of the respective items for lowering the materials.
8. 10 per cent excess on the above rates will be allowed on the works bring executed in jail premises.

# **CHAPTER 8**

  

# **R.C.C WORK**



## Chapter – 8 R.C.C WORK

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

### **SPECIAL NOTE:**

1. For centering and shuttering for R.C.C. work (in floor and roof slab, Landings, Balconies, projecting sunshades, Chajja, Stairs Plinth band, footings , base of columns, precast slab, beams and columns, Lintels R.C.C. Walls and Fins) in first floor and subsequent upper floors add 20 per cent extra to the rate of respective centering and shuttering items over and above the rates from the next lower floor.
2. For R.C.C. work in 1st floor or any additional floor add 15 per cent extra labour over and above the rate of next lower floor for lifting of concrete etc.
3. For Reinforcement work in 1st floor or any additional floor add 5 per cent extra labour over and above the rate of next lower floor.
4. The rates of R.C.C. items (except item No. 3, 4 , 5,6,7&8) have been arrived using hand broken chips and if crusher broken chips are used the difference in cost should be added to arrive at the finished rates.
5. For R.C.C. and reinforcement works below ground level beyond 1.5m and upto 4.5m depth add 15 per cent extra labour over and above the rates of the respective items for lowering the materials.
6. For R.C.C. and reinforcement works below ground level beyond 4.5m and upto 7.5m depth add 20 per cent extra labour over and above the rates of the respective items for lowering the materials.
7. For centering and shuttering work below ground level beyond 1.5m and upto 7.5m depth add 20 per cent extra labour over and above the rates of the respective items for lowering the materials.
8. For R.C.C. work in shell roof add 25 per cent extra labour over and above the rate for lifting and laying concrete.
9. For R.C.C work in sloped roof add 10 per cent extra labour (on labour calculated for the floor) over and above the rate for lifting and laying concrete.
10. For R.C.C. work in pergola add 10 per cent extra labour over and above the rate of next lower floor for lifting and laying concrete.

11. The under reamed diameter in pile foundation has been assumed as 2.5 times the stem diameter.
12. 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises.

# **CHAPTER 9**

  

# **R.B WORK**

## Chapter – 9

### R.B WORK

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

#### **SPECIAL NOTE:**

1. For R.B. work in 1st floor and subsequent floors add 15 per cent extra labour over and above the rates of the next lower floor.
2. For centering and shuttering for R.B. work in 1st floor and subsequent upper floors add 20 per cent extra to the rates of centering and shuttering over and above the rates in the next lower floor per Sq.M.
3. The rate of concrete items have been arrived on the assumption that hand broken chips have been utilized. If crusher broken chips are to be utilized necessary addition to the rates may be effected.
4. 10 per cent excess on the above rates to be allowed when the works are being executed inside jail premises.

## **CHAPTER 10**

# **MASONRY BRICK WORK WITH 25 CM BRICKS**

## Chapter – 10

### MASONRY BRICK WORK WITH 25 CM BRICKS

Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works

#### SPECIAL NOTE:

- |   |       |           |
|---|-------|-----------|
| 1. For brick masonry in superstructure add extra towards extra labour for scaffolding to the rate in foundation and plinth.   | 1 cum | Rs. 33.00 |
| 2. For brick arch masonry not exceeding 1.5m span add extra for scaffolding and centering in rate of brick work in superstructure.  | 1 cum | Rs. 66.20 |
| 3. For brick masonry in well steining add extra towards extra labour for scaffolding and lowering materials to the rate in F & P.   | 1 cum | Rs. 46.20 |
| 4. For brick masonry in item for 1st floor and subsequent higher floors add 15 percent extra labour over and above the rates of next lower floor.   |       |           |
| 5. For honey comb brick masonry in 1st floor and subsequent higher floors add 15 percent extra labour over and above the rates of next lower floor.   |       |           |
| 6. For brick masonry with different quality of bricks add or subtract the difference in cost of bricks from respective items of rate.   |       |           |
| 7. For brick masonry with 23cm x 11cm x 8cm size bricks 400 nos. of bricks are required for one cum. of masonry. Labour and material component remain the same in that for respective items of bricks masonry with 25cm x 12cm x 8cm size bricks. |       |           |
| 8. For brick masonry work below ground level beyond 1.5m. and up to 4.5m. depth add 15 percent extra labour over and above the rates of the respective items for lowering the materials.  |       |           |
| 9. For brick masonry work below ground level beyond 4.5m. and up to 7.5m. depth add 20 percent extra labour over and above the rates of the respective items for lowering the material.   |       |           |
| 10. 10 percent excess on the above rates will be allowed in works being executed inside jail premises.  |       |           |

## **CHAPTER 11**

# **MASONRY STONE WORK**

## Chapter – 11

### MASONRY STONE WORK

Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works

#### SPECIAL NOTE:

- |  |       |           |
|--|-------|-----------|
| 1. For stone masonry in superstructure add extra labour for scaffolding to the rates of foundation and plinth.   | 1 cum | Rs. 41.90 |
| 2. For stone masonry in well sinking add extra labour for scaffolding to the rates of foundation and plinth.   | 1 cum | Rs. 71.70 |
| 3. For dry stone masonry or rough stone dry masonry for well sinking add extra towards extra labour and scaffolding to the rate of dry stone masonry or retaining wall (Item 12).      | 1 cum | Rs. 58.50 |
| 4. Where stones other than granite are used deduct the difference in cost of stones including OHC and T&P from the respective items.   |       |           |
| 5. When crusher broken metals and chips are used the differences in cost between hand broken and crusher broken materials for respective items are to be added.                        |       |           |
| 6. For stone masonry work below ground level beyond 1.5m and upto 4.5m. depth add 15 per cent extra labour over and above the rates of the respective items for lowering the materials |       |           |
| 7. For stone masonry work below ground level beyond 4.5m and upto 7.5m. depth add 20 per cent extra labour over and above the rates of the respective items for lowering the materials |       |           |
| 8. 10 per cent excess on the above rates will be allowed in the works being executed inside jail premises  |       |           |



# CHAPTER 12

# FLOORING

## Chapter – 12 FLOORING

Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works

### SPECIAL NOTE:

1. Rate have been arrived on hand broken chips. If crusher broken chips are used, the difference in cost of material is to be added to arrive at finished rate.
2. For flooring work in 1st floor or any additional floor add 5 per cent extra labour over and above the rate of next lower floor.
3. For repair item of flooring in 1st floor or any additional floor add 2 per cent extra labour over and above the rate of next lower floor.
4. For stone cladding to outer walls of 1st floor and subsequent higher floors add 10 per cent extra labour over and above the rates of next lower floor.
5. In case of stone cladding to outer walls and glazed tile fixing on walls, provision of semi-skilled mulia for rubbing and wax polishing as in analysis will not be considered.
6. Fixing tiles in item No. 16, 17 & 18 includes marble, kota, khandolite, granite, kadappa, dholpuri stone chequered tiles, glazed tiles & terrazzo tiles, etc.
7. For flooring work below ground level beyond 1.5m. and up to 4.5m. depth add 5 per cent extra labour over and above the rates of the respective items for lowering the material.
8. For flooring work below ground level beyond 4.5m. and up to 7.5m. depth add 7 per cent extra labour over and above the rates of the respective items for lowering the material.
9. 10 percent excess on the above rates will be allowed in the works being executed inside jail premises

# CHAPTER 13

# PAINTING

## Chapter – 13 PAINTING

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

### **SPECIAL NOTE:**

1. Painting of shutter including choukats
  - i. Batten and panel Take 2 ¼ times the opening
  - ii. Glazed Take 1 ½ times the opening
  - iii. 2/3 panelled and 1/3 glazed Take 2 times the opening
  - iv. 1/3 panelled and 2/3 glazed Take 1 ¾ times the opening
  - v. 1/3 panelled and 2/3 venetian Take 2 ¾ times the opening
  - vi. For window gratings Take ½ times the opening
  - vii. Venetian and Rolling shutters Take 3 times the opening
2. Paints should be used as follows per 10 m<sup>2</sup>
  - i. Primer 1 Coat
    - a. Wood 0.75 lt
    - b. Steel 0.54 lt
    - c. Plastered surface 0.84 lt
  - ii. Painting Wood and Iron Works
    - a. 1 Coat 0.75 lt
    - b. 2 Coats 1.25 lt
  - iii. Coaltaring
    - a. 1 Coat 1.80 lt
    - b. 2 Coats 2.80 lt
  - iv. Distemper
    - a. 1 Coat 1.66 kg
    - b. 2 Coats 2.50 kg
  - v. Plastic paint
    - a. 1 Coat 0.75 lt
    - b. 2 Coats 1.25 lt
  - vi. Cement Paint
    - a. 1 Coat 1.66 kg
    - b. 2 Coats 2.50 kg

1. For inside painting in each subsequent floor above ground floor add 3 per cent extra labour over and above the rates of ground floor.
2. For outside painting add 5 per cent extra on labour for scaffolding over and above the rates of next lower floor.
3. For repair item of painting add 2 per cent extra labour to respective items.
4. 10 per cent excess on the above rates will be allowed in the works being executed inside jail premises.

# CHAPTER 14

# PLASTERING

## Chapter – 14 PLASTERING

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

### **SPECIAL NOTE:**

1. For inside cement of lime plaster or pointing in each subsequent floor above ground floor and 3 per extra labour over and above the rates of next lower floor.
2. For inside white washing, colour washing and cement washing in each subsequent floor above ground floor add 3 per cent extra labour over and above the rates to next lower floor.
3. For repair items of white washing and colour washing inside add 2 per cent extra labour to respective items of next lower floor.
4. For repair items of plastering add 2 per cent extra labour to the respective items of next lower floor.
5. For outside cement plaster, white washing, colour washing, and cement washing add 5 per cent extra labour for scaffolding etc. over and above the rates of next lower floor.
6. For painting work below ground level beyond 1.5m and upto 4.5m depth add 5 per cent extra labour over and above the rates of the respective items for lowering the material.
7. For painting work below ground level beyond 4.5m and upto 7.5m depth add 7 per cent extra labour over and above the rates of the respective items for lowering the material.
8. 10 per cent excess on the above rates will be allowed in the works being executed inside jail premises.

# CHAPTER 15

# ROOFING



## **Chapter – 15**

### **ROOFING**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

#### **SPECIAL NOTE:**

1. 10 per cent excess on the above rates will be allowed in the works being executed inside jail premises.

# CHAPTER 16

# WOOD WORK

## Chapter – 16 WOOD WORK

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

### **SPECIAL NOTE:**

1. When 1/3 panelled and 2/3 glazed or vice versa shutters is specified, the proportionate rates of the respective items should be worked out and the rate for the shutter arrived.
2. The diameter of the bullahs to be measured above 2m. high from the bottom.
3. The standard fittings for doors and windows should be as per the I.S.I. specification.
4. 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises.

# **CHAPTER 17**

# **ROAD WORK**

## Chapter – 17 ROAD WORK

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

### **SPECIAL NOTE:**

1. 10% excess on the above rates will be allowed for the work being executed in side the Jail premises.
2. Generally Bitumen Emulsion @ 6Kg/10Sqm is to be used in Primer Coat. However, the quantity may be increased as specified in the Contract or as determined by site trials carried out as directed by the Engineer-in-Charge depending upon the porosity.
3. In case of tack coat, bitumen emulsion / bitumen @ 0.2Kg/Sqm in case of normal bituminous surface, @ 0.3Kg/Sqm in case of granular base treated with primer and @ 0.4Kg/Sqm in case of granular base (not primed) is to be used.
4. In case of WMM with Wet Mix Plant, BM, DBM, SDBC, BC, open graded PMC, close graded premix surfacing and Seal Coat with 40-60TPH HMP and 100-120TPH HMP, carriage of plant mixed materials to work site has been calculated as 1Km. distance. This is to be ascertained as per the actual requirement. For example, the distance from quarry to work site is 20Kms, then the lead from quarry to plant may be considered as 5Kms. and from plant to work site (L) as 15Kms. If it is 65 Kms, then the lead from quarry to plant may be considered as 5Kms. and from plant to work site (L) as 60Kms. But in any case, (L) should not exceed more than 60Kms. If the distance from quarry site to work site is 85 Kms., then the lead from quarry to plant may be considered as 25Kms. and from plant to work site (L) as 60Kms
5. The rates provided for sub-base and metalling vide Item No. 8, 9 and 31 are for compacted Cum.
6. For 1 Cum of compacted granular sub-base, 1.28 Cum of loose quantity will be taken into consideration.
7. In case of Built up spray grouting, no extra payment towards cleaning the surface and applying tack coat is to be made as the same has been included in the concerned item.
8. In case of Primer Coat / Tack Coat to be done by mechanical means, cleaning item is not to be provided separately as the same has been included in the said items.

## **CHAPTER 18**

# **SITE CLEARANCE**

## **Chapter – 18**

### **SITE CLEARANCE**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

**SPECIAL NOTE:**

1. For dismantling works, premeasurement should be recorded before commencement of the work.
2. 10% excess on the above rates will be allowed for the work being executed in side the Jail premises.

## **CHAPTER 19**

# **PILE FOUNDATION**



## **Chapter – 19**

### **PILE FOUNDATION**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

**SPECIAL NOTE:**

1. Rate of R.C.C. items have been arrived on crusher broken chips. If hand broken chips are to be used the difference in cost is to be deducted to arrive at the finished rate.
2. 10 per cent excess over and above the rate will be allowed for the work been executed inside jail premises.

## **CHAPTER 20**

# **DISMANTLING**

## **Chapter – 20**

### **DSIMANTLING**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

#### **SPECIAL NOTE:**

1. For dismantling work in 1st floor or any additional floor add 5 per cent extra labour over and above the rates of next lower floor for lowering the dismantled materials.
2. For dismantling works, pre-measurement should be recorded before commencement of the work.
3. 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises

# **CHAPTER 21**

# **IRON WORK**

## **Chapter – 21**

### **IRON WORK**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

#### **SPECIAL NOTE:**

1. 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises

## **CHAPTER 22**

# **WELL SINKING**

## **Chapter – 22**

### **WELL SINKING**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

**SPECIAL NOTE:**

1. 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises

## **CHAPTER 23**

# **OTHER BUILDING ITEMS**



## **Chapter – 23**

### **OTHER BUILDING ITEMS**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

## **CHAPTER 24**

# **BRIDGE WORKS**

## **Chapter – 24**

### **BRIDGE WORKS**

**Please use the Analysis of Rates, 2006 for determination of rates for various Items of Works**

## **CHAPTER 25**

# **MISCELLANEOUS ITEMS**

## Chapter – 25

### MISCELLANEOUS ITEMS

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
<b>25.1</b>	<b>R.C.C. Works</b>		
1	Making R.C.C. jally as per approved design 2.5 cm to 5.00 cm thick and fixing in cement mortar in position after cutting the grooves, etc. complete including cost of all materials.	1Sq.M	281.35
2	Providing and fixing in position 50mm, thick precast cement concere jally (1:2:4) hard granite chips including roughening, cleaning, fixing and finishing in cement mortar (1:3) etc., complete	1Sq.M	423.61
3	5 c.m. thick R.C.C. shelves (1:2:4) with hard granite chips 12mm size fitted and fixed in position finished smooth complete with all materials.	1Sq.M	272.79
4	R.C.C. boundary stones (1:2:4) with washed shingles or hard tone chips 10cm × 10cm and 1.2M high fitted and fixed complete	Each	70.92
5	R.C.C. post (1:2:4) using 12mm size hard granite chips using 75Kgs of steel reinforcement per Cu.M. including cost of all materials and labour fitting and fixing in position etc.	Cum	6099.22
6	Supplying and fixing 15cm dia and 1.00 M. long guard posts of cement concrete (1:2:4) with hard granite chips including cost of all reinforcement.	Each	90.94
7	Labour for fixing 15 cm dia and 1 m long R.C.C. guard posts in position 45cm below ground level.	Each	2.61
8	Providing and fixing pre-cast R.C.C. (1:2:4) kilometre stone as per I.R.C. design including finished smooth.		
a	110cm long ordinary Km. Stone for N.H., S.H. and M.D.R.	Each	405.96
b	150cm long ordinary 5 Km. Stone for N.H., S.H. and M.D.R.	Each	576.80
c	95cm long ordinary Km. Stone for N.H., S.H. and village roads.	Each	298.91
9	8 cm thick R.C.C. fins walls (1:2:4) with black hard granite chips 12mm size using 3.0 kg to 3.50 Kg of steel reinforcement per Sq.M. including shuttering, finishing complete	1sqm.	429.19
10	R.C.C. railing (1:2:4), 8 cm thick 90cm high with hard granite chips 6mm to 20mm size complete as per approved design.	R.M	442.00
11	I.R.C. standard R.C.C. railing (1:2:4) using black hard granite chips 12mm size including cost of centering and shuttering and cost and conveyance of all materials and labour etc. complete.	R.M	759.18
12	Boxing with cement concrete (1:3:6) with wire netting and washed pit singles or hard stone chips including cement plaster 6mm, thick finished smooth complete.	1 Cum	1819.46

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
13	Filling bitumen and cement and jute fibre in expansion joints inclusive of cost of materials, bitumen and cement proportion (3:1) including cleaning before pouring 12mm to 25mm and 15cm depth.	1 RM	13.28
14	Ditto extra for each additional 2.5cm depth over the depth of 15cm	1 RM	2.69
15	Inserting premoulded expansion joint including cleaning (labour only)	1 RM	1.55
<b>25.2</b>	<b>Doors and Window</b>		
1	Labour of replacing glass- panes including cutting to size with cost of nails and putty.	1 Sqm	66.50
2	Cleaning glass-panes with spirit including cost of spirit	1 Sqm	5.26
3	Frosting glass-panes including cost of all labour and materials	1 Sqm	19.75
4	Fitting and fixing glass louvers in position in wooden, steel window frames including cutting grooves.	1 Sqm	90.28
5	Renewing putty in fixing glass-panes	1 Sqm	52.49
6	Fixing old glass panes with wooden beading including cost of nails and beadings	1 Sqm	58.95
7	Providing, fitting and fixing with sal wood battens, 7.5cm × 1.2cm with 6mm mesh wire netting, or expanded metal including panting complete	1 Sqm	405.96
8	Fixing wire netting or welded mesh including screw and nails (Labour only)	1 Sqm	55.27
9	Providing, fitting and fixing 25mm thick sal wood batten, jaffry, door shutters fitted and fixed in position including cost of iron fitting and hinged cleats etc. complete.	1 Sqm	399.40
10	Labour for taking out wooden/steel door frame and refixing the same after necessary repair including making good damages to walls.	Each	73.04
11	Labour for taking out wooden/steel window and refixing the same after necessary repairs including making good damages to walls.	Each	56.01
12	Taking out the door or window shutters and refixing them including screws as may be required.		
	(a) Doors	Each	69.76
	(b) Windows	Each	42.80
13	Labour for fitting and fixing-departmental shutters excluding cost of fixing and fitting Chaukath but including mending size of grooves in chaukaths and size of shutters, etc. complete	Sqm	30.15

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
14	(a) Supplying and fixing W.I. clamps 33cm to 38cm long of 35mm × 5mm size for doors and windows and ventilators including fixing in cement concrete (1:3:6) with 12mm, to 20mm hard stone chips or in cement mortar (1:3) including cost of all materials.	Each	26.45
	(b) Supplying and fixing W.I. clamps 25cm to 30cm long of 35mm × 5mm size for doors and windows and ventilators including fixing in cement concrete (1:3:6) with 12mm to 20mm hard stone chips or in cement mortar (1:3) including cost of all materials.	Each	14.34
15	Labour for fixing tower bolts 15cm to 23cm long including supply of screw.	Each	5.32
16	Labour for fixing tower bolts 25cm to 30cm long including supply of screws.	Each	7.29
17	Labour for fixing iron bolts of different sizes, iron chains, iron rings or brass rings to doors and windows.	Each	2.70
18	Supplying and fixing wooden blocks to walls	Each	1.95
19	Supplying and fixing Sal wood, sand blocks 13cm × 10cm × 7 cm to chokaths including cost of screws.	Each	2.96
20	Supplying and fixing hinged cleats 8 cm to 10cm long and 4cm thick including cost of screws	Each	5.76
21	Labour for fixing catch hooks of different size to doors and windows.	Each	2.84
22	Easing, oiling and petty repairs windows	Each	5.62
23	Replacing the wooden lintels of doors and windows with new precast R.C.C. lintels including making good to the damage (Labour only)	Each	50.00
24	Labour for making chokaths and burgas from old wood works	1 Cum	1244.04
25	Supplying, fitting and fixing Sal wood gate as per approved designed including painting, etc. complete in all respect	1sqm.	373.11
26	Cutting grooves in laterite stone masonry for fixing chokaths of doors and windows.	Each	4.42
27	Making cement concrete (1:2:4) door sills	1 RM	13.45
28	Providing and fixing in position 20mm thick (solid core type) sita board or equivalent approved quality flush shutter double leaf (treated with liquid phenolformaldehyde synthetic resin) with and including door dropper, cleats, both side commercial shutter and superior hinges, etc. complete.	1 Sqm	870.48
29	Providing and fixing in position 30mm thick Ditto one side decorative shutter Ditto.	1 Sqm	1047.15
30	Providing and fixing in position 30mm thick Ditto both side decorative shutter Ditto.	1 Sqm	1332.76

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
31	Providing and fixing in position 25mm thick Ditto both side decorative shutter Ditto.	1 Sqm	762.31
32	Providing and fixing in position 25mm thick Ditto one side and one side commercial shutter Ditto.	1 Sqm	960.81
33	Providing and fixing in position 25mm thick Ditto both side decorative shutter Ditto	1 Sqm	1131.07
34	Labour only for fixing in position flush shutters fixtures of any thickness and any quality.	1 Sqm	58.05
35	Add extra for vision panels in square shape		
	(a) Both side commercial of any thickness	Each	85.22
	(b) One side or both side decorative of any thickness	Each	102.91
36	Deduct for single leaf shutters as rebete cutting is not required (for flush shutters)	Sqm	32.85
37	Add extra for Teak wood leaping (Double leaf)		
	(a) Commercial 25mm thick	Sqm	220.52
	(b) Commercial 30mm thick	Sqm	161.92
38	Add extra for teak wood leaping double leaf decorative (one side or both side)		
	(a) 25mm thick	Sqm	137.72
	(b) 30mm thick	Sqm	143.86
39	Add extra for Teak leaping with commercial wood for single leaf shutters on both the sides.		
	(a) 25mm thick	Sqm	136.16
	(b) 30mm thick	Sqm	151.58
40	Add extra for Teak leaping decorative for single leaf shutters, one side or both the sides	Sqm	
	(a) 25mm thick	Sqm	91.36
	(b) 30mm thick	Sqm	71.33
41	Supplying R.C.C. door/window frames of cross section 100mm × 60mm of M-250 concrete using OPC 43 Grade cement and steel reinforcement of 5.5 mm to 6.0 mm dia M.S. Rod with provision of hinges, locks, W.I. clamps, etc. (Ex-factory)	1 RM	207.91
42	Fitting and fixing of R.C.C. door/window frames of sizes		
	(a) Doors	Each	117.93
	(b) Windows – 1.80m× 1.35m. size	Each	132.82
	1.50m × 1.35m. size	Each	131.87
	1.20m × 1.35m. size	Each	73.00
	0.90m × 1.35m. size	Each	74.07
43	Providing & fixing 25mm to 12mm Teak wood beading all round door and window and polished as required.	1 RM	29.67



Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
<b>25.3</b>	<b>Roofing</b>		
1	Leak repair to terrace roof with cement and cow dung proportion 1:1 (by volume)	100 sqm	273.10
2	Leak repair to terrace roof with cement and cow dung proportion 1:1 (by volume) lime or cement grouting to cracks.	100 m	301.05
3	Leak repair to corrugated asbestos or G.I. sheet roofing with pitch and coaltar, putty and paint around the holes.	100 nos.	116.97
4	G.I. sheet gutter upto 30cm wide including fixing with clamps and making connection with rain water pipes, etc. complete.	1 RM	96.78
5	Taking out choked up rain water C.I. down pipe including refixing the same in position with cement.	Each	32.66
6	Labour for fitting and fixing 8 cm to 10 cm C.I down pipe.	1 RM	5.85
7	Labour for fixing rain water down pipe with necessary bend shoes and heads etc. including cost of clamps and nails	1 RM	12.79
8	7.5cm dia earthen rain water spout 1.0M long	Each	28.88
9	Cleaning flues of chimneys	Each	13.25
10	Fixing ridges and valley in C.I. sheet roofing (Labour only)	1 sqm	13.02
11	Lime mortar ridge over pan tiled roof	1 RM	20.42
12	Labour for changing burgas irrespective of length and size including repairs to damages.	Each	11.09
13	Labour for laying local Raniganj tile roofing	1 Sqm	7.53
14	Leak repairs to single Nuria tile roofing	1 Sqm	1.57
15	Leak repairs to double Nuria tile roofing	1 sqm	1.05
16	Labour for fitting and fixing old roof timbers including cost of nails	1 Cum	752.75
17	Labour for removal of old bamboo frame including stacking the useful materials for reuse.	1 Sqm	1.04
18	Labour for fixing 'J' 'L' or 'U' hooks for repair works only.	Each	1.97
<b>25.4</b>	<b>Ceiling</b>		
1	Hassain ceiling stretched on Sal wood frame and mountain battens including all aterials, etc. complete	1 Sqm	46.73
2	Hassain mat ceiling stretched on old frames including all materials etc.	1 sqm	25.99
3	Bamboo celiling with new Sal frame including all materials etc. complete	1 sqm	91.09
4	Bamboo celiling with old Sal frame including all materials etc. complete	1 sqm	19.47
<b>25.5</b>	<b>Flooring</b>		
1	Picking up old floor for resurfacing	1 sqm	4.52
2	Polishing the floor surface with red oxide, bees wax and turpentine	1 sqm	15.62

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
3	Rubbing old marble chips or marble tile flooring and dados skirting including wax polishing to give granolithic finish.	1 sqm	71.46
<b>25.6</b>	<b>Iron works</b>		
1	Labour for fitting and fixing flat iron wind ties including drilling holes and supplying bolts and nuts.	1 qtl	275.53
2	Fabricated iron works (Labour only)	1 qtl	351.93
3	Labour for fixing M.S. bed plates 12mm thick set in cement.	1 sqm	155.49
4	Welding of rods to proper specification and strength including cutting and shaping the ends to receive the welding materials and cutting to proper sizes as required for the work complete.		
	(a) 25mm dia M.S. Rods	Per joint	96.50
	(b) 28mm dia M.S. Rods	Per joint	114.52
	(c) 30mm dia M.S. Rods	Per joint	116.80
	(d) 35mm dia M.S. Rods	Per joint	119.90
	(e) 38mm dia M.S. Rods	Per joint	122.10
5	Labour for fitting and fixing of M.S. window grills including cost of screws complete	1 Sqm	15.49
6	Labour for fitting and fixing of M.S. Gates as per approved design including cost of all materials complete	1 Sqm	91.08
7	Labour for fixing holding down bolts in cement mortar	Each	2.98
8	Labour for fixing fan hooks in existing R.C. ceiling	Each	19.90
<b>25.7</b>	<b>White Washing</b>		
1	White washing and refiguring kilometer stones or mile stones or boundary pillars	Each	5.81
2	White washing and refiguring furling posts or 100M post	Each	2.86
3	Chalk washing one coat to receive distempering	1 sqm	2.36
4	Chalk washing two coats to receive distempering	1 sqm	2.60
5	Labour for rubbing out heavy moss from shift walls exposed to weather	100 sqm	14.06
6	Washing the plastered surface with soap and soda water	100 sqm	26.25
<b>25.8</b>	<b>Painting</b>		
1	Painting figures and letters of various size upto 120mm	Each	1.53
2	Painting figures and letters above 120 mm size	1 RM	1.57
3	Engraving letters of various sizes from 5cm to 10cm including painting, etc. Complete	1 RM	2.87
4	Painting and writing road signs of all kinds as per I.R.C. standard including painting boards.	1 RM	8.64
5	Marking and painting lines or arrows	1 RM	2.30
6	Wall painting with any approved paint 1 coat (Labour only)	1 sqm	5.07
7	Wall painting with any approved paint 2 coats (Labour only)	1 sqm	6.14

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
8	Scraping old paint with scrapers, sand papering and washing with soap water or soda including scaffolding charges upto 5M height	1 sqm	4.59
9	Scraping old paint with scrapers, sand papering and washing with soap water or soda including scaffolding charges above 5M high and upto 8M height	1 sqm	6.24
10	Washing and cleaning plastic paint/cement paint/distempered walls including cost of painting sponge	100 sqm	26.33
<b>25.9</b>	<b>Pile Driving</b>		
1	Labour for driving sal bullah piles and fixing in position 12cm to 15cm, dia upto 1.50M depth including sharpening the end.	1 m	15.85
2	Ditto- Ditto-beyond 1.50m depth – Do – Do	1 m	26.21
3	Ditto-Ditto above 15 Cm and upto 20cm dia upto 1.50M depth	1 m	27.98
4	Ditto- Ditto-beyond 1.50M depth – Do – Do	1 m	33.26
5	Ditto-Ditto above 20 Cm and upto 20cm dia upto 1.50M depth	1 m	37.02
6	Ditto- Ditto-beyond 1.50M depth – Do – Do	1 m	41.49
7	Ditto-Ditto above 25 Cm and upto 20cm dia upto 1.50M depth	1 m	42.31
8	Bamboo jafree on top of piles	100 Sqm	1676.19
9	Split bamboo jafree closely woven including bamboo posts 7.5cm to 10 Cm dia 1.8 M apart.	100 Sqm	1325.02
10	Bamboo piling 1.50M long 30cm apart to be driven to a depth of 90Cm with 60Cm jafree on top.	1 RM	33.79
11	Bamboo piling 2.00M long 30cm apart to be driven to a depth of 1.0M with 90Cm jafree on top.	1 RM	41.20
12	Bamboo piling 3.7M long 30cm apart to be driven to a depth of 2M with 1.50M jafree on top.	1 RM	98.09
13	Half bullah tying pieces fitted and fixed with nails (labour only)	1 RM	8.11
14	For driving piles in water add extra to the respective rate of pile driving item.	1 RM	2.34
<b>25.10</b>	<b>String Course and Cornice</b>		
1	6 cm to 8cm projection plinth moulding with brick in cement mortar (1:3) 6 cm to 8 cm depth including cement plaster 1:4 complete	1 RM	19.88
2	9 cm projection 6 cm deep cornice with brick in cement mortar (1:3) and cement mortar (1:4) complete	1 RM	34.29
3	15cm projection and 15cm deep cornice with brick in cement (1:3) including drip course and cement plaster (1:4) complete.	1 RM	46.52
4	23cm projection and 23cm deep cornice with brick in cement mortar (1:3) including drip course and cement plaster (1:4) including plaster (1:4) complete.	1 RM	77.67

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
5	25 Cm deep brick coping on compound wall including cement plaster (1:4) complete for 35cm to 38cm thick walls including plastering (1:4) complete	1 RM	58.13
6	15 Cm deep brick coping 23cm to 25cm thick walls including plastering (1:4) complete.	1 RM	41.06
7	15 cm deep brick coping for 11cm to 12cm thick walls	1 RM	33.00
8	7.5cm deep brick coping on compound wall of 23cm to 25cm thick including cement plaster (1:4) complete.	1 RM	33.52
9	Providing 8 cm deep cement concrete (1:5:10) on top of compound wall and plastering with cement plaster (1:4) complete.	1 RM	35.74
10	6 cm projection for 23cm to 25cm wall string course with brick in cement mortar (1:3) and cement plaster (1:4) complete	1 RM	16.13
11	Brick moulding including plastering with cement mortar (1:4) 12cm deep and 11cm projection	1 RM	30.10
<b>25.11</b>	<b>Drain</b>		
1	15cm. × 15cm concrete drain with cement concrete (1:3:6) and cement plaster (1:3) including punning over hard base.	1 RM	92.59
2	10cm. × 15cm concrete drain with cement concrete (1:3:6) and cement plaster (1:3) including punning over hard base.	1 RM	65.18
3	25cm. × 23cm concrete drain with cement concrete (1:3:6) and cement plaster (1:3) finished smooth with 10cm thick concrete over hard base.	1 RM	143.22
4	Shallow brick drain in courtyard 6cm deep with cement plaster (1:3) finished smooth.	1 RM	45.42
5	23cm to 30cm drain with cement concrete (1:2:4) finished smooth	1 RM	15.12
6	10cm × 15cm drains finished smooth	1 RM	9.74
7	15cm thick cement concrete (1:3:6) drain 75cm wide and 30cm depth including 12MM cement plastering (1:3) finished smooth.	1 RM	486.22
8	Ditto 60cm wide and 30cm depth	1 RM	373.05
9	Ditto 30cm wide and 30cm depth	1 RM	188.44
10	Waste water outlet in cement including cost of gratings	Each	22.58

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
11	Waste water outlet in cement without gratings	Each	11.57
<b>25.12</b>	<b>Fencing</b>		
1	Labour for fitting and fixing woven wire fencing with top line of barbed wire to the posts by means of staples and straining hooks.	100 m	82.85
2	1.50M high bamboo fencing with muli bamboo posts and strong bamboo frame work including all materials complete.	100 m	1169.61
3	Green fencing 1.25M height with thomy bushes and split bamboo.	100 m	403.53
4	Supplying fitting and fixing R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm × 13cm at bottom and 8cm × 8 cm at top and 30cm × 30cm × 8 cm base finished smooth	Each	196.34
5	Labour for fixing barbed wire fencing and post by means of staples and straining hooks by means of tying with G.I. wire and including cost of staples, hooks and tying wires	Each line Each metre	0.64
<b>25.13</b>	<b>Bridge work and other Hydraulic structure</b>		
	<b>Well Sinking :</b>		
1	Labour for sinking wells in all kinds of soil other than rock, to lines, levels and plumb by scooping out from inside and below the staining including cost of necessary tools and plant supplying and working of pumps bailing out of water or dredging, removal of all materials and obstacles from inside the well by divers, hire and labour for cantiledge jetting, if necessary and sinking to a depth of 10M taking precaution against shifting and tilting disposal of the spoil with all leads and lifts, etc complete		
	(a) 3.00 M dia outside circular or octagonal single wall upto 10.00 M depth	1 RM	6662.46
	(a1) 3.00 M dia every successive additional metre depth beyond 10.00M depth	1 RM	73.31
	(b) 3.25M dia outside circular or octagonal single wall, upto 10.00M add	1 RM	8564.47
	(b1) 3.25 M dia outside circular or octagonal single well for every successive additional metre depth beyond 10.00M depth add.	1 RM	118.70
	(c) 3.50M dia outside circular or octagonal single well upto 10.00M depth	1 RM	10573.08
	(c1) 3.50M dia for every successive additional metre depth beyond 10.00M add	1 RM	128.66
	(d) 4.00 M dia outside circular or octagonal single well upto 10.00M depth	1 RM	13120.32
	(d1) 4.00 M dia for every successive additional metre depth beyond 10. depth add	1 RM	161.00
	(e) 4.25 M dia outside circular or octagonal single well	1 RM	16006.71

SI No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
	(e1) 4.25M dia for every successive additional meter depth beyond 10.00 M depth add.	1 RM	190.32
	(f) 4.50M dia outside circular or octagonal single well	1 RM	16595.00
	(f1) 4.5M dia for every successive additional metre depth beyond 10.00 M depth add.	1 RM	200.64
	(g) 4.75M dia outside circular or octagonal single well	1 RM	17452.42
	(g1) 4.75M dia for every successive additional metre depth beyond 10.00 M depth add.	1 RM	231.68
	(h) 5.00 M dia outside circular or octagonal single well	1 RM	18754.75
	(h1) 5.50M dia for every successive additional metre depth beyond 10.00M depth add.	1 RM	241.93
	(i) 5.50 M dia outside circular or octagonal single well	1 RM	19412.90
	(i1) 5.50 M dia for every successive additional metre depth beyond 10.00M depth add	1 RM	255.98
	(j) 5.75M dia outside circular or octagonal single well	1 RM	20451.94
	(j1) 5.75M dia for every successive additional metre depth beyond 10.00M depth add	1 RM	271.61
	(k) 6.00 dia outside circular or octagonal single well	1 RM	21915.41
	(k1) 6.00 M dia for every successive additional metre depth beyond 10.0M depth add.	1 RM	282.58
	(l) 6.50M dia outside circular or octagonal single well	1 RM	23113.49
	(l1) 6.50M dia for every successive additional metre depth beyond 10.00M depth add	1 RM	222.12
	(m) 6.75M dia outside circular or octagonal single well	1 RM	23661.86
	(m1) 6.75M dia for every successive additional metre depth beyond 10.00M depth add	1 RM	311.86
	(n) 7.00M dia outside circular to octagonal single well	1 RM	25663.51
	(n1) 7.00M dia for every successive additional metre depth beyond 10.00M depth add	1 RM	335.74
	(o) 7.25M dia outside circular or octagonal single well	1 RM	26601.92
	(o1) 7.25M dia for every successive additional metre depth beyond 10.00M depth add	1 RM	348.38
	(p) 7.50M dia outside circular or octagonal single well	1 RM	28038.23
	(p1) 7.50M dia for every successive additional metre depth beyond 10.00M depth add.	1 RM	369.69
2	(a) 3.30M dia outside circular or octagonal twin well upto 10.00M depth	1 RM	19394.98
	(b) 3.00M dia for every successive additional metre depth beyond 10.00M depth add.	1 RM	187.41

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
3	Earth work in excavation of foundation in all kinds of soil with all leads and lifts including shoring, shuttering, propping bullahs, piling dewatering from foundation, supplying and working pumps and stacking the excavated materials away from working area as ordered by the Engineer-in-charge upto 60M etc. complete with coffer dam if required.		
	(a) Upto 3.00 M depth	1 cum	4997.26
	(b) Beyond 3.00M and upto 6.00 M. Depth	1 cum	6762.16
	(c ) Beyond 6.00M depth	1 cum	8329.55
4	Earth work in excavation of foundation is hard work or granite rock with all leads and lifts, including dewatering from foundation supplying shoring pumps and working pumps and stacking the excavated materials away from working areas as ordered by Engineer-in-charge upto 60M and complete with coffer dam if required.		
	(a) Upto 6.00M depth	100 Cum	23679.38
	(b) Beyond 6.00M depth	100 Cum	29587.28
5	Excavation of foundation in soft rock or disintegrate rock with all leads and lifts, including shorting shuttering propping bullahs, piling dewatering from foundation, supplying and working pumps and staking the excavated materials away from working area as ordered by the Engineer-in-charge upto 60M complete with coffer dam if required.		
	(a) Upto 6.00M depth	100 Cum	15106.73
	(b) Beyond 6.00M depth	100 Cum	19156.01
6	Leveling the hard rock surface under wells for piers, abutments and wings under water	1 Sqm	209.56
7	Fixing anchoring bars upto 25mm to 38mm dia to the foundation of piers and abutments after drilling holes grouting with cement or cement mortar as per approved proportion, etc. all complete but excluding cost of rods.	Each	125.00
8	Labour for fitting and fixing in position steel cutting edge as per approved design using M.S. angle plates, bolts and nuts complete including cutting angles to required size, bending to shape, drilling holes, reverting and welding, etc. complete in all respect but excluding cost of angles and plates.	1 Quintal	1207.35
9	Labour for fixing rocker and roller bearings	Each Set	4779.75
10	Providing C.I. grating to holes size upto 15cm dia for each drainage of water including cost of all materials.	Each	58.71

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
11	Cement concrete in foundation including dewatering add extra to the respective rate of cement concrete	1 Cum	75.42
12	Cement concrete in substructure including frame work (shuttering and hoisting) add extra to the respective items of work.	1 Cum	139.04
13	Masonry work in foundation below bed level add extra to respective rates of foundation for dewatering and lowering of materials.	1 Cum	43.09
14	Shoring foundation trenches, pits, etc. with closed wood sheet piles excluding cost of wood (Labour only)	1 Sqm	16.69
15	Shuttering in foundation excluding cost of wood (Labour only)	1 Sqm	4.03
16	Trial boring in river-bed 38mm to 50mm dia upto 9.15M depth	1 RM	45.87
17	Removing and refixing old wood work saving to the required sizes where necessary including cost of new nails but excluding cost of bolts complete for bridge work (labour only).	1 Cum	552.44
18	Fixing wooden planks and scantling for bridge decking including cost of new nails (Labour only)	1 Cum	576.99
19	(a) Strip seal expansion joint as per MORT&H specification.	RM	12149.04
	(b) Compression seal expansion joint as per MORT&H specification	RM	10911.06
	N.B. : The rates for item No. 1 to 17 are provisional		
<b>25.14</b>	<b>Timber Bridges</b>		
1	Sal bullah rough squared beams including fixing with new nails spikes for bridge work, etc. inclusive of cost of all materials complete	1 Cum	10235.57
2	Refixing old wood including cost of new nails etc.	1 Cum	593.36
3	Dismanting old wood work of bridges and stacking at site	1 Cum	288.10
4	Sal wood planks and sawn scantling for bridge including fixing and cost of new nails, etc. complete	1 Cum	23159.53
5	Labour for fitting and fixing old sal planks for fair-weather road including cost of nails	1 Sqm	12.05
6	Labour for fixing old sal bullah including cost of nails after cutting to required sizes.	1 RM	5.90
7	Labour for filling empty cement bags, sewing and laying in position including cost of sewing strings.	100 Nos.	129.96
8	Labour for filling empty cement bags sewing and laying under water in position.	100 Nos	139.24
9	Loading cement bags filled with sand in boat within 300m. lead.	100 Nos	58.72
10	Caulking boats, lock gates, etc. with Oakum	30 RM	120.68
<b>25.15</b>	<b>Road work</b>		
1	Removal of B.T. surface and stacking them away from work site within initial lead of 50 Mtr. and initial lift of 1.5 Mtr. as per direction of Engineer-in-charge	1 sqm	17.81



Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
2	Labour charges for pre-coating 10mm chips as per I.R.C. code 48/72	1 Cum	487.00
3	K.B.bricksflat soling including filling on interstics with sand or sandy soil	1 Sqm	39.89
4	Second class K.B. bricks on dental brick edging	1 RM	10.60
<b>25.16</b>	<b>Other Miscellaneous items</b>		
1	Clearing heavy jungle including uprooting stumps of trees and trees above 1M girth and thick bushes including bamboo premeasurement.	100 sqm	80.99
2	Clearing shrub jungles uprooting stumps and small bushes and trees below 1M girth on premeasurement.	100 sqm	26.24
3	Cutting and uprooting trees including removal and making good to the damages to ground, trees up to 1.50M girth.	Each	39.20
4	Cutting and uprooting trees including removal and making good to the damages to ground treesabove 1.50M upto 3.00 M girth	Each	63.09
5	Cutting and uprooting trees including removal and making good to the damages to ground trees above 3.00M. girth	Each	94.94
6	Washing newer cot including refixing each cot	Each	23.83
7	Dewatering and removing rubbish and silt and disinfecting wells upto 1.5M dia	Each	133.70
8	Dewatering and removing rubbish and silt and disinfecting wells above 1.50M and upto 2.50M dia	Each	216.72
9	Supplying fitting and fixing teak wood hand rails 8cm to 10cm wide and 5cm to 8cm depth complete in all respects polished.	1 RM	312.04
10	Supplying fitting and fixing teak wood picture rail 8 cm to 10cm wide and 12cm tick including polishng, etc. complete	1 RM	93.15
11	Bamboo gabions 60cm dia 1.50 M high including coaltaring 2 coats to 30 cm bottom fitted and fixed complete	Each	46.12
12	Bamboo gabions 1m dia 1.50 M high including coaltaring 2 coats to 30 cm bottom fitted and fixed complete	Each	75.64
13	Recanning arm of dining chair with nylon cane (Back)	Each	40.73
14	Recanning arm of dining chair with country cane (Back)	Each	33.39
15	Recaning arm of dining chair with nylon cane (seat)	Each	74.85
16	Recaning arm of dining chair with country cane (seat)	Each	55.24
17	Recanning easy chair with nylon cane	Each	189.53
18	Recanning easy chair with country cane	Each	169.30
19	Construction of brick gabions with dry brick and cement mortar in honey comb joints and two layers solid masonry in cement mortar (1:6)in all joints.		
	(a) 1.25M dia and 1.50M high	Each	
	(b) 1.00M dia and 1.50M high	Each	402.88

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
20	Laying and fixing in position R.C.C. spun pipes with collars jointed with cement mortar 1:3 complete excluding cost of spun pipes and collars		
(a)	100mm dia R.C.C. pipe	1 RM	11.79
(b)	150mm dia R.C.C. pipe	1 RM	13.26
(c)	250mm dia R.C.C. pipe	1 RM	19.44
(d)	300mm dia R.C.C. pipe	1 RM	23.31
(e)	450mm dia R.C.C. pipe	1 RM	29.76
(f)	600mm dia R.C.C. pipe	1 RM	36.26
(g)	900mm dia R.C.C. pipe	1 RM	54.84
(h)	1200mm dia R.C.C. pipe	1 RM	94.44
21	Labour for fixing bullahs 30cm to 50cm below ground for barricading purpose.	Each	1.53
22	23cm to 30cm dia Sal bullah fitted and fixed complete	1 Cum	8485.24
23	10cm to 13cm dia Non-Sal bullah fitted and fixed complete.	1 m	28.13
24	Non-sal bullah 13cm to 15cm dia fitted and fixed complete	1 m	48.85
25	Non-sal bullah 18cm to 20cm dia fitted and fixed complete	1 m	71.07
26	25mm thick sal plank fitted and fixed complete for Shelves	1 Sqm	459.38
27	Fitting and fixing unitex board after cutting rebate and grooves and fixing with necessary beads, nails or screws etc. (Labour) nails or screws etc (labour)	1 Sqm	116.28
28	Renewing bases of lightening conductors terminals with pillar 25cm × 25cm and 12mm cement plaster (1:6) complete	Each	81.32
29	Making empty coalter drum gabions with thick coat of colatar to exposed surface (drums to be supplied departmentally).	Each	13.36
30	Cutting chase or grooves upto 15cm × 15cm in old walls including fixing C.I. sheet in cement mortar (1:3)	1 RM	13.26
31	12cm thick honey comb brick works in cement mortar (1:4) including cement plaster (1:6) complete.	1 Sqm	171.41
32	Labour for cutting the empty coalter drums and flattening the same	Each	3.89
33	Providing 12cm thick and 30cm high ornamental brick parapet as per design with (1:6) cement mortar and cement plaster (1:6) finished smooth complete.	1 RM	137.57
34	Labour for fitting and fixing masonite sheet lining to wall faces etc. complete.	1 Sqm	24.69
35	Crack repair to walls 8cm × 2.5cm with cement mortar (1:3)	1 RM	3.07

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
36	Clearing of water hyacinth from canal and drainage channels		
	(a) Thickly grown	1 Sqm	2.30
	(b) Moderately grown	1 Sqm	1.43
37	Dug belling 23cm × 15cm	100 M	22.74
38	Drilling hole 25cm to 37mm dia in granite rock	1 RM	166.50
39	Drilling hole 25cm to 37mm dia in rock other than granite	1 RM	141.34
40	Sawing charges of wood by machine as per specified size	1 Cum	474.15
41	Sewing charges by hand including cost of the thread hand needless per R.M.	1 RM	1.68

**NOTES:**

1. Rates under this sub-heads are inclusive of labour and cost of materials and conveyance, except where otherwise mentioned in the description of items.
2. 10 percent excess on the above rates will be allowed on the works being executed inside the jail premises.

Sl. No	Description of Items	Unit	Rate (Rs.)
1	2	3	4
<b>25.17</b>	<b>New Miscellaneous Items</b>		
1	Supplying and fixing of 60mm thick cement concrete interlocking paver block of M-30 grade of approved make, design, colour and size made by Block making machine with proper compaction laid in required pattern etc. complete in all respect conforming to IRC SP-63:2018.	1 Sqm.	480.75
2	Supplying and fixing of 80mm thick cement concrete interlocking paver block of M-40 grade of approved make, design, colour and size made by Block making machine with proper compaction laid in required pattern etc. complete in all respect conforming to IRC SP - 63:2018.	1 Sqm.	601.50
3	Supplying and fixing of Pre cast kerb stone of size 300mm x 300mm x 150mm of M-30 grade of approved make, design, colour and size made by Block making machine with proper compaction fixed in required pattern etc. complete in all respect confirming to IS 5758:1984.	Each	161.30

Sl. No	Description of Items	Unit	Rate (Rs.)
1	2	3	4
4	Supplying and fixing of Pre cast kerb stone of size 600mm x 300mm x 150mm of M-30 grade of approved make, design, colour and size made by Block making machine with proper compaction fixed in required pattern etc. complete in all respect confirming to IS 5758:1984.	Each	244.80
5	Supplying and fixing of Roller blinds by fixing powder coated top channel, bottom channel with bottom end cap, control unit and good quality of 0.60 mm thick fabric of approved design and quality etc. complete.	1 Sqm.	1911.20
6	Supplying and fixing of Wall paneling made of aluminum anodised section framing conforming to standard Aluminium sections as horizontal and vertical members with atleast 600mm c/c and fixing of 9mm thick BWR ply with 4mm thick veneer pasting finished with melamine polishing complete.	1 Sqm.	2269.20
7	Supplying and fixing of Double skin wall paneling made of aluminum anodised section framing conforming to standard Aluminium sections as horizontal and vertical members with atleast 600mm c/c with 9mm thick BWR block ply and 4mm thick veneer finished with melamine polished on both the faces complete.	1 Sqm.	2621.81
8	Providing and fixing ISI marked 35 mm thick flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak three ply veneering with vertical grains or cross bands and face veneers on both faces of shutters of approved design including cost of all door fittings and fixtures etc. complete	1 Sqm.	12828.00
9	Supplying, fitting and fixing of 32mm thick flush door shutter with approved quality of 30mm thick BWR block board pasted with 1mm thick sunmica on both side of approved design and quality including cost of all door fittings and fixtures etc. complete	1 Sqm.	10560.00
10	Supplying, fitting and fixing of 5.5 mm thick hexagonal Aluminum jally in windows as single groove, double groove and tapered clip as horizontal and vertical members for fixing of aluminum jally and jointing angle conforming to standard Aluminium sections etc. complete.	1 Sqm.	1822.70
11	Supplying and fixing of Elastomeric Membrane of 200mm x 2mm size for expansion joint sealing from approved manufacturer, fixing with epoxy adhesive of approved quality complete.	1 RM	3226.00

<b>Sl. No</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Rate (Rs.)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
12	Supplying , fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.	1 Sqm.	4952.60
13	Supplying , fitting and fixing of openable UPVC doors with door frame of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.	1 Sqm.	8667.38
14	Supplying , fitting and fixing of grid mineral fibre ceiling board having size 600 mm x 600 mm x 16mm of approved design and quality complete with frame and all fitting and fixtures.	1 Sqm.	1600.00

**25.18. BASIC RATES OF MISCELLANEOUS ITEMS FOR PH WORKS**  
**(Water Supply and Sanitary Installations)**

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
	<b>LUMP SUM ITEM RATE</b>		
1	Intake Well (upto 20 M depth) including dewatering ,cofferdam, pump house on the well,crane arrangements, 2.5 m wide RCC/ MS walk way - 50 mtr to intake pump house but excluding external electrification, raw water pump, approach to site, spur & cutoff wall etc .		
i	4.50 mtr dia	each	10674401.00
ii	6.0 mtr dia	each	17790669.00
iii	8.0 mtr dia	each	23720893.00
iv	10.0 mtr dia	each	30837161.00
2 (i)	Pump House Plinth Area	Sqm	15132.00
(ii)	Sunken Pump House Plinth Area	Sqm	22824.16
3	Pump Sets:-		
i	VT Pump Sets without Control Panel including installation	HP	14200.00
ii	Submersible/Centrifugal PumpSets without Control Panel	HP	8738.75
4	WTP with Cascade aerator.Raw water channel,Chemical house,Chemical store,Dosing arrangements,Chlorinator,Flash Mixer, Rapidmix,HBCF ,Settling Tank,RGF,Clariflocculator,bye pass channel,filter house & back wash arrangement with pump, CWR,Clear water pump house, Lab, Administrative Block,internal road & lighting,internal drainage arrangement,internal electrification etc but excluding clear water pumps , External Electrification , Automation & instrumentation & sludge Treatment.		
i	Upto 3.0 MLD	ML	7709289.50
ii	Upto 5.0 MLD	ML	7116268.00
iii	Upto 10.0 MLD	ML	5930224.00
iv	Above 10.0 MLD	ML	5337200.00
5	<b>UGR and piping arrangement up to 5 Mtr from external face.</b>		
i	Upto 2.25 Lakh Ltr	Ltr	6.52
ii	Above 2.25 Up to 10.00 Lakh Ltr	Ltr	5.93
iii	Above 10.00 Lakh Ltr	Ltr	5.34
6	<b>ESR and piping arrangement up to 5 Mtr from external face.</b>		
i	Upto 1.0 Lakh ltr. (upto 20 mtr. Ht.)	Ltr	35.59
ii	(above 20 mtr. Ht.)	Ltr	37.95
iii	Above 1.0 Lakh ltr. (upto 20 mtr. Ht.)	Ltr	28.47
iv	(above 20 mtr. Ht.)	Ltr	33.21

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
v	Above 5.0 Lakh ltr. (upto 20 mtr. Ht.)	Ltr	26.09
vi	(above 20 mtr. Ht.)	Ltr	29.65
	For SBC < 10 Ton/m <sup>2</sup> & > 7 Ton/m <sup>2</sup> add 5% extra .		
7	<b>3 Phase Transformer (Sub Station)11/4 KVA</b>		
i	including installation with all required material 25 KVA	each	284003.75
ii	including installation with all required material 63 KVA	each	387773.76
iii	including installation with all required material 100 KVA	each	442390.00
iv	including installation with all required material 250 KVA	each	786471.25
v	including installation with all required material 350 KVA	each	983088.76
vi	including installation with all required material 500 KVA	each	1400000.00
vii	Substation Building of size (5.00 m x 3.00 m) for 250 KVA and above transformers	Sqm	15132.00
8	<b>L.T. Line</b>		
i	L.T Line with 50 mm <sup>2</sup> AB Cable using 9 mtr PSC Pole .	1.0 KM	373573.75
ii	L.T Line with 95 mm <sup>2</sup> AB Cable using 9mtr PSC Pole .(New Item)	1.0 KM	825000.00
iii	11 kv Line with 160x160 mm GI Pole (New Item)	1.0 KM	1300000.00
iv	33 kv Line with 160x160 mm GI Pole (New Item)	1.0 KM	1600000.00
v	1.6 MVA 33/0.4 Kv Sub -station with stand by (New Item)	Each	9700000.00
9	<b>Supply, fitting &amp; fixing etc.</b>		
i	Out door control pannel empty Box.made of MS Plate	Each	7646.25
ii	Star Delta Control Pannel with APFC arrangement	HP	2184.99
iii	A T S Control pannel	HP	3277.49
iv	Soft Starter with six wire bypass arrangement up to 300 H P.	HP	1638.13
10	<b>Filter Sand &amp; Media</b>		
i	Filter Sand with effective size varying from 0.5mm to 0.7mm, Uniformity Coefficient between 1.3 to 1.7 and confirming to IS 8419 Part-I : 1977 (Basic price at quarry excluding carriage)	Cum	1835.10
ii	Filter Media ( Gravel) with size varying from 40 to 60 mm at bottom to 2 to 5 mm at top conforming to IS: 8419 (part-I) 1977 (Basic price at quarry excluding carriage)	Cum	1468.08

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
	<b>Cleaning Items (As Per Practical field Observations) New Items</b>		
11	Supplying all materials labour & T & P with safty protective gears /kits for cleaning and desilting of Machine hole Chamber by mechanical means using de-silting machine mounted on a 3-wheeler vehicle BS -6 model including hire charges of machines, operators, POL and required sewerman and depositing the semisolid sludges at the work site and subsequently disposal of dried sludge by mechanical means with in 20 KM radius from work site with loading at work site & unloading at designated place of Municipality authorities etc complete in all respect as per site condition & direction of the Engineer in charge.( <b>As Per Practical field Observations</b> )	Per on no. Of Machine Hole	965.50
12	Supplying all materials labour & T & P with safty protective gears /kits for cleaning of sewer line by mechanical means using Jetting - cum - Suction machine mounted on TATA 710 LPT BS6 vehicle with tank capacity 2000 ltr ( Suction) + 2000 ltr ( Jetting).The suction machine using to sock over flow of sewer water & sludge from the machine hole for facilitating use of jetting machine for clearing the blockage in the sewer line. The Jetting machine can operate through hydro jetting propulsion technic with high pressure of 150 bar/2200 PSI of jet spray of water through aerodynamic nozzle fitted on 3/4" ruber hose is inserted inside the sewer line for clearing of blockage & dragging the hose pipe for bringing the sludges to the machine hole . etc complete in all respect as per site condition & direction of the Engineer in charge.The cost towards hire charges machine,operators, POL, Consumable materials, conveyance & labour charges etc. ( <b>As Per Practical field Observations</b> )		
i	up to 200 mm dia sewer line	1 RM	245.90
ii	For 250 mm &300 mm dia sewer line	1 RM	327.80
iii	For 350 mm &above dia sewer line	1 RM.	819.50



Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
13	Supplying all materials labour & T & P with safety protective gears / Kit for cleaning of sewer line by mechanical means using Jetting machine mounted on TATA 710 LPT BS6 vehicle with tank capacity 4000 ltr ( Jetting). The Jetting machine can operate through hydro jetting propulsion technic with high pressure of 150 bar/2200 PSI of jet spray of water through aerodynamic nozzle fitted on 3/4" ruber hose is inserted inside the sewer line for clearing of blockage & dragging the hose pipe for bringing the sludges to the machine hole . etc complete in all respect as per site condition & direction of the Engineer in charge.The cost towards hire charges machine,operators, POL, Consumable materials, conveyance. cost of safety ptotective gears as per SOP & labour charges etc. <b>(As Per Practical field Observations)</b>		
i	Upto 200 mm dia sewer Line	1 RM	195.80
ii	For 250 mm &300 mm dia sewer line	1 RM	234.90
iii	For 350 mm &above dia sewer line	1 RM	587.40
14	Supplying all materials labour & T & P with safety protective gears / Kit for clearing of blockage in sewer lines by mechanical means using trally mounted rodding machine with 5 HP deisel pump to operate the system by insertion of flexible rod of 1.0 mtr each by jointing one by one up to required length driven by diesel engine to clear the chockage of sewer line & after clearing the chock remove the rod by one by one etc. complete as per site condition & direction of Engineer - in charge.The cost towards hire charges machine,operators, POL, Consumable materials, conveyance. cost of safety ptotective gears as per SOP & labour charges etc. <b>(As Per Practical field Observations)</b>		
i	Upto 200 mm dia sewer Line	1 RM	59.00
ii	For 250 mm &300 mm dia sewer line	1 RM	88.50
iii	For 350 mm &above dia sewer line	1 RM	177.10

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
15	Supplying all materials labour & T & P for cleaning of Machine Hole chamber by mechanical means using Suction machine mounted on TATA 710 LPT BS6 vehicle with tank capacity 4000 ltr ( Suction) .The suction machine using to sock over flow of sewer water & sludge from the machine hole for facilitating clearing the blockagein in the sewer line and subsequently disposal of the sucking sewerage water with in 20 KM radius from work site with unloading at designated place by Municipality authorities etc complete in all respect as per site condition & direction of the Engineer in charge.. etc complete in all respect as per site condition & direction of the Engineer in charge.The cost towards hire charges machine,operators, POL, Consumable materials, conveyance & labour charges etc. <b>(As Per Practical field Observations)</b>	One Trip	1303.20
16	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i)Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine.(iv) The treated surface shall be dried using air jetting and all loose particles shall be removed from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge. Details of cost for 1 No. <b>(As Per Practical field Observations)</b>	Per Ltr	0.08
17	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account). <b>(As Per Practical field Observations)</b>	Per Liter	0.28

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
18	Cleaning rubbish, sludge, weeds scum, liquid earth, mud etc. from road side masonry drain/ nikashi etc. by mathor labour after removing concrete slab/ manhole cover etc. without damaging the same and re-fixing the same properly after cleaning as necessary and removing the sludde etc. by using iron pans, buckets including all labour, tools and plants including expulsion of impure/ inflammable/ asphyxiating gases from the drain etc. and removing the spoils in dry condition and disposing the same by truck beyond the area of municipal corporation/ municipality/ NAC/ industrial township authority etc. for such disposal including the cost of loading, unloading, transportation and making arrangement of necessary land for disposal, spreading and levelling as necessary etc. and cleaning the road side complete as per direction of engineer-in-charge.(Land for disposal to be arranged by the contractor)(Payment will be made on the basis of actual stack measurement of spoils in dry condition at road side.	1 RM	164.00
19	Cleaning rubbish, sludge, weeds scum, liquid earth, mud etc. from road side masonry open drain/ nikashi etc. by mathor labour, removing the sludge etc. by using iron pans, buckets including all labour, tools and plants including expulsion of impure/ inflammable/ asphyxiating gases from the drain etc. and removing the spoils in dry condition and disposing the same by truck beyond the area of municipal corporation/ municipality/ NAC/ industrial township authority etc. for such disposal including the cost of loading, unloading, transportation and making arrangement of necessary land for disposal, spreading and levelling as necessary etc. and cleaning the road side complete as per direction of engineer-in-charge.(Land for disposal to be arranged by the contractor)(Payment will be made on the basis of actual stack measurement of spoils in dry condition at road side.(As Per Practical field Observations)	1 RM	130.00

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
20	Cleaning rubbish, sludge, weeds scum, liquid earth, mud etc. from RCC box drain/covered nikashi etc. by mather labour after removing concrete slab/ manhole cover etc. without damaging the same and re fixing the same properly after cleaning as necessary and removing the sludge etc. by using iron pans, buckets including all labour, tools and plants includingexpulsion of impure/ inflammable/asphyxiating gases from the drain etc. and removing the spoils in dry condition and disposing the same by truck beyond the area of municipal corporation/ municipality/ NAC/ industrial township authority etc for such disposal including the cost of loading, unloading, transportation and making arrangement of necessary land for disposal, spreadingand levelling as necessary etc. and cleaning the road side in all respects, complete as per direction of engineer-in-charge.(Land for disposal to be arranged by the contractor)(Payment will be made on the basis of actual stack measurement of spoils in dry condition at road side.(As Per Practical field Observations)	1 RM	286.00
	<b>Dismantling of R.C.C Structure (New Item)</b>		
21	Supplying all materials , Labour, & T & P for staggging ,digging holes, hoisting the 1st Class bamboo of 7cm to 10cm dia with minimum length of 6.0 mtr, tying with coir string , including overlapping of the bamboos in jointing in other direction bamboo pole, vertically around the tower at least 1.50m C/C about circumstantialy around the tower in the layers at the distance of at least 0.50m away from the outer peripherry of the over head wall placing the bamboo bracing horizontally at a distance of 1.50 m C/C including similar overlapping of 1.0 mtr as and where necessary all complete as per direction of Engineer in charge so to achieve in risk free working of the working labours.and Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately.(As Per Practical field Observations)	Per Cum	1960.00
	<b>Add 10% on every 3Mtr Heights .</b>		
	<b>Automation System(New Items)</b>		

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
22	Water end butterfly valve PN10, body-CI , Disc-SGI, Seat- EPDM, Shaft -SS410 with Qtork Gear Box and Auma Actuator Epac		
i.	100NB	Per Nos	130000.00
ii.	150NB	Per Nos	132000.00
iii.	200NB	Per Nos	135000.00
iv.	250NB	Per Nos	140000.00
v.	300NB	Per Nos	145000.00
vi.	350NB	Per Nos	165000.00
vii.	400NB	Per Nos	170000.00
viii.	450NB	Per Nos	180000.00
ix.	500NB	Per Nos	192000.00
x.	600NB	Per Nos	245000.00
23	Flange end butterfly valve PN10, Body-CI, Disc-SGI, Seat-EPDM, Shaft-SS410 with Qtork Gear box and Auma Actuator Epac-		
i.	100NB	Per Nos	135000.00
ii.	150NB	Per Nos	138000.00
iii.	200NB	Per Nos	142000.00
iv.	250NB	Per Nos	147000.00
v.	300NB	Per Nos	154000.00
vi.	350NB	Per Nos	170000.00
vii.	400NB	Per Nos	180000.00
viii.	450NB	Per Nos	192000.00
ix.	500NB	Per Nos	202000.00
x.	600NB	Per Nos	275000.00
24	Auma Epac Actuator:- Open/ Closeduty, 2nos limit Switch, 2nos Torque Switch with 4-20ma Position Feedback		
i.	Actuator type-SA3E22	Per Nos	115000.00
ii.	Actuator type-SA6E22	Per Nos	118000.00
iii.	Actuator type-SA12E32	Per Nos	125000.00
iv.	Actuator type-SA25E45	Per Nos	133000.00
25	Electrically Actuated butterfly valve of 200mm size	Per Nos	130000.00
26	Electrically Actuated butterfly valve of 300mm size	Per Nos	130000.00
27	Electrically Actuated butterfly valve of 320mm size	Per Nos	140000.00

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
28	<p><b>Surge Arrester:-</b></p> <p>Surge arrester for 3-conductor power supply systems (L1, N, PE), consisting of a base element with remote indication contact and protective connectors, for mounting on NS 35 and must have following features:</p> <p>1. Product properties: IEC test classification II; T2; EN type T2; IEC power supply system TN-S; TT; Type DIN rail module, two-section, divisible; Number of positions 2; Surge protection fault message Optical, remote indicator contact</p> <p>2. Insulation characteristics: Overvoltage category III; Pollution degree 2</p> <p>3. Electrical properties: Nominal frequency fN 50 Hz (60 Hz); Indicator/remote signaling; Connection name Remote fault indicator contact; Switching function Changeover contact Operating voltage 5 V AC ... 250 V AC/ 30 V DC; Operating current 5 mA AC ... 1.5 A AC/1 A DC</p> <p>4. Protective circuit: Mode of protection L-N, L-PE, N-PE; Direction of action 1L-N &amp; N-PE; Nominal voltage UN 240/415 V AC (TN-S) 240/415 V AC (TT); Nominal frequency fN 50 Hz (60 Hz); Maximum continuous operating voltage UC (L-N) 335 V AC; Maximum continuous operating voltage UC (L-PE) 335 V AC; Maximum continuous operating voltage UC (N-PE) 260 V AC; Rated load current IL 80 A; Maximum discharge current I<sub>max</sub> (8/20) <math>\mu</math>s 40 kA; Follow current interrupt rating Ifi (N-PE) 100 A; Voltage protection level U<sub>p</sub> (L-N) <math>\leq</math> 1.5 kV; Voltage protection level U<sub>p</sub> (L-PE) <math>\leq</math> 1.8 kV; Voltage protection level U<sub>p</sub> (N-PE) <math>\leq</math> 1.5 kV; TOV behavior at UT (L-N) 415 V AC (5 s / withstand mode); 440 V AC (120 min / safe failure mode); TOV behavior at UT (N-PE) 1200 V AC (200 ms / withstand mode); Response time t<sub>A</sub> (L-N) <math>\leq</math> 25 ns; Response time t<sub>A</sub> (L-PE) <math>\leq</math> 100 ns; Response time t<sub>A</sub> (N-PE) <math>\leq</math> 100 ns</p> <p>5. Make: Phoenix Contact / Dehn / Mersen</p>	Per Nos	2644.00

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
29	<p><b>DC Uninterrupted Power Supply:-</b></p> <p>All the RTU components like I/O cards, 4G Router and all other accessories should be powered by UPS back-up of minimum 2 hours in order to avoid any interruption in the power line. The Panel mounted Industrial UPS must be IP 20 rated and must support the following features:-</p> <p>1- In the event of supply voltage failure, battery mode must be activated without any interruption. There should be two switching outputs on the UPS module which should provide information when the UPS operates on battery mode and when there is any alarm on the UPS.</p> <p>2- Input Voltage Range- 85 ... 264 V AC.</p> <p>3- Frequency Range- 45 ... 65 Hz.</p> <p>4- Output Voltage- 24VDC</p> <p>5- The efficiency of the UPS operation should be more than 86%.</p> <p>6- Ambient temperature Operation- 0 °C ... +40 °C.</p> <p>7- The rechargeable battery of the UPS should be maintenance free based on lead AGM, VRLA technology.</p> <p>8- Electromagnetic compatibility according to EMC Directive 2014/30/EU.</p> <p>9- The MTBF of the product must not be less than 68 Years (SN 29500 standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day)).</p> <p>10- There must be proper isolation between the Supply to RTU and Supply to field instruments/sensors.</p> <p>11- The Power Supply and the UPS module should be protected by an external, pluggable and KEMA approved Surge Protection Device. The Maximum discharge current I<sub>max</sub> (8/20) μs of the SPD must not be less than 40 KA. The SPD should have a potential free contact which should get activated in case the SPD fails. The SPD healthy indication should be available on the SCADA/UI Server.</p> <p>12. Make: Siemens / Phoenix Contact / Micro Power</p>	Per Nos	25533.00

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
30	<p><b>Interposing Relay Module:-</b></p> <p>All digital outputs shall be isolated through interposing relays which must support following features:-</p> <p>1. Input Data- Relay Coil Voltage 24 VDC <math>\pm</math> 10%; Relay Current Consumption 21.8 mA; Relay Coil Resistance 1100 Ohm; Protective circuit/component Freewheeling Diode; Operating voltage display Green LED</p> <p>2. Output Data: Contact type 1 C/O (SPDT); Limiting continuous current 5 Amp@250VAC/30VDC, Resistive Load, cosf=1; 5 Amp@30 VDC, Inductive Load, cosf=0.4; 5 Amp@250 VAC, Inductive Load, cosf=0.4; Relay Contact Resistance 100 mOhm</p> <p>3. External connection: Through Screw terminals at Input and Output</p> <p>4. General Data: No. of Relays 8 (Eight); Pluggable Yes; Operating Temperature 0 0C to 50 0C; Storage Temperature -10 0C to 60 0C; Mounting Universal Din Rail; Installation position Any; Housing insulation Material PVC, Side Panel PA, Non-reinforced Housing Color Green</p> <p>5. Make: Phoenix Contact / Wago / OMRON</p>	Per Nos	1622.00
31	<p><b>RTU:-</b></p> <p>The RTU must be IP 20 rated of Industrial grade and must have following features:-</p> <p>1- Power Supply- 19.2 V DC ... 30 V DC.</p> <p>2- Provision for surge voltage protection with Input protective diode, pulse load up to 1500 W and polarity reversal with parallel diode.</p> <p>3- Ambient temperature Operation- 0 °C ... +55 °C.</p> <p>4- 32-bit processor with a minimum clock frequency of 64 MHz and with Program Memory – 256 kB, Data Memory – 256 kB, Retentive Data Memory – 8 kB, Flash Memory – 4 MB integrated, minimum 5 PID loops</p> <p>5- Integrated Ethernet port for Program Download/Upload and Online monitoring.</p> <p>6- Integrated RS 485 port for connecting Modbus Slaves with data transmission speed of 9.6 ... 250 kbps.</p> <p>7- The RTU must be capable of working as a Modbus /TCP as well as Modbus RTU Master or Slave configuration, simultaneously. It must be capable to open 8 Ethernet connections simultaneously with one Ethernet Port.</p> <p>8- Immediate data sending to NIC server.</p> <p>9- In case of Mobile network failure, the RTU must have the capacity to log 50 different parameters at 1</p>	Per Nos	44366.00



Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
	<p>minute interval for 7 days and once the mobile network becomes healthy, the logged data must be updated in the Cloud data base, automatically, to prevent any loss of data due to mobile network interruptions.</p> <p>10- Inbuilt RTC- RTC deviation per week shouldn't be more than 1 minute and the RTC time should be saved for a minimum of 72 hours without power.</p> <p>11- Time Synchronization with SNTP Server.</p> <p>12- All the digital inputs must be protected with 50 mA external glass fuses and all the digital outputs must be interfaced with prerequisite relays with contact rating not less than 6A.</p> <p>13- All the sensor inputs must be protected with external KEMA approved Surge Protection Device. The Maximum discharge current <math>I_{max}</math> (8/20) <math>\mu s</math> of the SPD must not be less than 20 KA.</p> <p>14- All the analog inputs must be isolated via external signal isolators of 1.5KV isolation between input side and output side of the isolators to ensure proper channel to channel isolation for the analog inputs.</p> <p>15- The Power Supply to the RTU and to other Field devices must also be properly isolated by using appropriate surge protection devices for RTU Power Supply and for Field Power Supply.</p> <p>16- Proper care must be taken to provide channel to channel isolation for I/Os as well as for Power Supply isolation between RTU side and Field side.</p>		
32	<p>Digital Input Module:-The Digital Inputs must be of 8 channels and IP 20 rated of Industrial grade and must have following features:-</p> <p>1- Ambient temperature Operation- 0 °C ... +55 °C.</p> <p>2- Supply voltage range- 19.2 V DC ... 30 V DC (including all tolerances, including ripple)</p> <p>3- Typical response time- 1 ms</p> <p>4- Input voltage range "1" signal- 11 V DC ... 30 V DC</p> <p>5- Input voltage range "0" signal- -3 V DC ... 5 V DC</p> <p>6- All the digital inputs must be protected with 50 mA external glass fuses.</p> <p>7- Make: Phoenix Contact / Allen Bradley / Schneider / Siemens</p>	Per Nos	5106.00

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
33	<p><b>Digital Output Module:-</b>            The Digital Outputs must be of 8 channels and IP 20 rated of Industrial grade and must have following features:-            1- Ambient temperature Operation- 0 °C ... +55 °C.            2- Maximum output current per channel- 500 mA            3- Supply voltage range- 19.2 V DC ... 30 V DC (including all tolerances, including ripple)            4- Maximum operating frequency with ohmic nominal load- 300 Hz            5- Protective Circuit- Overload protection, short-circuit protection of outputs, Zener diode in output chip, Auto Restart in case of output overload and Reverse voltage proof            6- All the digital outputs must be interfaced with prerequisite relays with contact rating not less than 6A.            7- Make: Phoenix Contact / Allen Bradley / Schneider / Siemens</p>	Per Nos	5744.00
34	<p><b>Analog Input Module:-</b>The Analog Inputs must be of 4 channels, 4-20mA type and IP 20 rated of Industrial grade and must have following features:-            1- Ambient temperature Operation- 0 °C ... +55 °C.            2- Input resistance current input- 200 Ω            3- Supply voltage range- 19.2 V DC ... 30 V DC (including all tolerances, including ripple)            4- Precision- typ. 0.1 %            5- Process data update must be less than 10ms            6- Transient protection- Suppressor diode            7- Overload Protection- max. ±10 V DC, corresponds to max. ±50 mA through the shunts            8- Analog to Digital conversion must not be less than 12 bits, however representation should be in 16 bits with error messaging in case of over range and open circuit errors.            9- All the analog inputs must be isolated via external signal isolators of 1.5KV isolation between input side and output side of the isolators to ensure proper channel to channel isolation for the analog inputs.            10- Make: Phoenix Contact / Allen Bradley / Schneider / Siemens</p>	Per Nos	11964.00

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
35	<p>Analog Output Module:-The Analog Outputs must be of 4 channels, 4-20mA type and IP 20 rated of Industrial grade and must have following features:-</p> <ol style="list-style-type: none"> <li>1- Ambient temperature Operation- 0 °C ... +55 °C.</li> <li>2- Load/output load current output- &lt; 300 Ω</li> <li>3- Supply voltage range- 19.2 V DC ... 30 V DC (including all tolerances, including ripple)</li> <li>4- Process data update must be less than 10ms</li> <li>5- Precision- typ. 0.1 %</li> <li>6- Protective Circuit- Short-circuit, electronic overload protection and transient protection via Suppressor diode</li> <li>7- Analog to Digital conversion must not be less than 12 bits, however representation should be in 16 bits with error messaging in case of over range and open circuit errors.</li> <li>8- Make: Phoenix Contact / Allen Bradley / Schneider / Siemens</li> </ol>	Per Nos	15317.00
36	<p><b>RS485 Module:-</b></p> <p>The RS485 MODBUS RTU module must be of IP 20 rated of Industrial grade and must have following features:-</p> <ol style="list-style-type: none"> <li>1- Ambient temperature Operation- 0 °C ... +55 °C.</li> <li>2- Supply voltage range- 19.2 V DC ... 30 V DC (including all tolerances, including ripple)</li> <li>4- Process data update must be less than 10ms</li> <li>5-Integrated RS 485 port for connecting Modbus Slaves with data transmission speed of 9.6 ... 250 kbps.</li> <li>6- The RTU must be capable of working as a Modbus /TCP as well as Modbus RTU Master or Slave configuration, simultaneously. It must be capable to open 8 Ethernet connections simultaneously with one Ethernet Port.</li> <li>7- Make: Phoenix Contact / Allen Bradley / Schneider / Siemens</li> </ol>	Per Nos	12658.00

Sl No.	Description of Items	Unit	Rate (in Rs.)
1	2	3	4
37	<p><b>Feed-through terminal:-</b>  Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: dark gray which must have following features:  1. Electrical properties: Rated surge voltage 8 kV; Maximum power dissipation for nominal condition 1.02 W  2. Connection data: Number of connections per level 2; Nominal cross section 4 mm<sup>2</sup>  3. Material specifications: Color gray; Flammability rating according to UL 94 V0; Insulating material group I; Insulating material PA; Static insulating material application in cold -60 °C; Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 130 °C; Relative insulation material temperature index (Elec., UL 746 B) 130 °C  4- Make: Phoenix Contact / Connectwell / Weidmuller</p>	Per Nos	17.00
38	<p><b>Fuse terminal:-</b>  All digital inputs shall be protected through fuse terminal which must support following features:  1. Electrical properties: Fuse type Glass / ceramics; Rated surge voltage 8 kV; Maximum power dissipation for nominal condition 1.02 W  Fuse G / 5 x 20 / 5 x 25 / 5 x 30; LED voltage range 15 V AC/DC ... 30 V AC/DC; LED current range 3.5 mA ... 8.1 mA  2. Input data: LED voltage range 15 V AC/DC ... 30 V AC/DC  3. Connection data: Number of connections per level 2; Nominal cross section 4 mm<sup>2</sup>  4. Material specifications: Color black; Flammability rating according to UL 94 V0; Insulating material group I; Insulating material PA; Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 125 °C; Relative insulation material temperature index (Elec., UL 746 B) 125 °C  5- Make: Phoenix Contact / Connectwell / Weidmuller</p>	Per Nos	167.00