



GOVERNMENT OF ORISSA

**SCHEDULE OF RATES
2006**

WORKS DEPARTMENT

PREFACE

The current Schedule of Rates, 2003 is in force since 1.10.2003. Due to enhancement in rates of materials, labour, conveyance etc. since then, the existing Schedule of Rates is found unworkable. Accordingly, the Rate Board were requested to recommend workable revised rates after reviewing the existing rates of the schedule vis-à-vis the prevalent local D.G.S. & D. and EPM rates of materials, minimum wages of different category of labour, conveyance and hire charges of machineries and equipments in different areas of State like Urban, Industrial, Mining and inaccessible areas and to recommend workable revised rates.

The Rate Board have accordingly, recommended the revised rates with supporting analysis. After careful consideration, Government have approved the recommended rates with the concurrence of Finance Department vide their UOR No.237-WF-I, dated 3.05.06 which became effective from 1.6.2006.

Due to revision in hire charges of some machineries, procedure of analysis and due to certain corrections, the Rate Board accordingly, further recommended the revised rates with supporting analysis in the Codes Revision Committee meeting held on 18.9.2006 and after careful consideration, Government have been pleased to approve the revised Schedule of Rates-2006 and its supporting Analysis of Rates-2006 with the concurrence of Finance Department vide their UOR No.566-WF-I, dated 12.12.2006.

A handwritten signature in blue ink, followed by the date '14/12/07' written below it.

Engineer in chief-cum-Secretary to Government,
Works Department

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I. RATES OF MATERIALS

Sl.No.	Name of items	Unit	Rate
1	2	3	4
1	Well burnt clamp burnt bricks (25 Cm. x 12Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm ² with dimensional tolerance \pm 8 percent.	1000 Nos	1568.00
2	Well burnt clamp burnt bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm ² with dimensional tolerance \pm 8 percent.	1000 Nos	1425.00
3	K.B. bricks (25 Cm x 12Cm x 8Cm) having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 8 percent.	1000 Nos	2192.00
4	K.B. bricks (23 Cm. x 11Cm. x 8Cm.) having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 8 percent.	1000 Nos	1846.00
5	Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 2 %	1000 Nos	1610.00
6	Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 2%	1000 Nos	1366.00
7	Fly ash blocks of 30 Cm. x 20 Cm. x 15 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 2 %	Each	8.00
8	Cement concrete solid Block machine mixed and Hydraulic compressed having crushing strength not less than 75kg/cm ²		
	a. 400mm x 200mm x 200mm size	Each	18.00
	b. 400mm x 150mm x 200mm size	Each	14.00
	c. 400mm x 100mm x 150mm size	Each	10.00
	d. 300mm x 200mm x 150mm size	Each	11.00
	e. 300mm x 150mm x 150mm size	Each	9.00
	f. 300mm x 100mm x 150mm size	Each	7.00
9	Cement concrete Hollow Blocks machine mixed and Hydraulic compressed having crushing strength not less than 70kg/cm ²		
	a. 400mm x 200mm x 200mm size	Each	16.00
	b. 400mm x 150mm x 200mm size	Each	12.00
	c. 400mm x 100mm x 200mm size	Each	9.00
	d. 300mm x 200mm x 150mm size	Each	9.00
	e. 300mm x 150mm x 150mm size	Each	8.00
	f. 300mm x 100mm x 150mm size	Each	6.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
10	K.B. bricks Khoa 4 Cm.size	1 Cum	239.00
11	Clamp burnt brick Khoa 4Cm. size.	1 Cum	172.00
12	Surki of clamp burnt bricks.	1 Cum	301.00
13	Surki of Kiln burnt bricks.	1 Cum	310.00
14	Screen washed gravel for concrete (12mm. to 20mm.)	1 Cum	85.00
15	Gravel or moorum for roadwork satisfying the P.I value with sand admixture, if required.	1 Cum	45.00
16	Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	1 Cum	50.00
17	River single or Bajri (12mm. to 20mm.)	1 Cum	69.00
18	Screened and washed sharp sand for mortar	1 Cum	29.00
19	Sand for filling and road blinding	1 Cum	25.00
20	Clay mortar for masonry work with admixture of sand.	1 Cum	37.00
21	Stone lime unslaked.	1 Kg.	11.00
22	Ghooting lime unslaked.	1 Kg.	15.00
23	Shell lime unslaked.	1 Kg.	13.00
24	a) Granite broken stone of size not less than 0.025 Cu M. Stacked	1 Cum.	148.00
	b) Granite broken stone of size not less than 0. 025 CuM. picked up.	1 Cum	121.00
25	Stone other than granite quarried, broken and staked 0.0015 Cu. M. to 0.003 Cu. M.	1 Cum	119.00
26	Stone other than granite picked up, broken and staked 0.0015 Cu. M. to 0.003 Cu. M.	1 Cum	106.00
27	Stone other than granite quarried, broken and staked above 0.003 CuM	1 Cum	113.00
28	Stone other than granite picked up, broken and staked above 0.003 CuM	1 Cum	106.00
29	Granite Stone broken metal 63mm. size Passing through 90mm. Sieve and retained on 53 mm sieve.		
	a) Crusher broken.	1 Cum	428.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
	b) Hand broken.	1 Cum	311.00
30	Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve)		
	a) Crusher broken.	1 Cum	445.00
	b) Hand broken.	1 Cum	324.00
31	Granite Stone broken metal 40mm. size		
	a) Crusher broken.	1 Cum	464.00
	b) Hand broken.	1 Cum	356.00
32	Granite Stone broken metal 26.5mm. size (Passing through 45mm sieve & retained on 22.4mm sieve)		
	a) Crusher broken.	1 Cum	490.00
	b) Hand broken.	1 Cum	346.00
33	Granite Stone broken metal 25mm. size (Passing through 40mm sieve & retained on 20mm sieve)		
	a) Crusher broken.	1 Cum	509.00
	b) Hand broken.	1 Cum	385.00
34	Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve)		
	a) Crusher broken.	1 Cum.	509.00
	b) Hand broken.	1 Cum	390.00
35	Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve. But whole should pass 26.5mm sieve)		
	a) Crusher broken.	1 Cum	638.00
	b) Hand broken.	1 Cum	498.00
36	Granite Stone broken chips 13.2mm. Size (Passing through 22.4mm sieve & retained on 11.2mm sieve)		
	a) Crusher broken.	1 Cum	640.00
	b) Hand broken.	1 Cum	490.00
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 19mm sieve)		
	a) Crusher broken.	1 Cum	642.00
	b) Hand broken.	1 Cum	494.00
38	Granite Stone broken chips 11.2mm. size (Passing through 13.2mm sieve & retained on 5.6mm sieve)		
	a) Crusher broken.	1 Cum	663.00
	b) Hand broken.	1 Cum	513.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
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 13.2mm sieve)		
	a) Crusher broken.	1 Cum	671.00
	b) Hand broken.	1 Cum	521.00
(A)	Granite Stone broken chips 6.7mm size (Passing through 11.2mm sieve & retained on 2.8mm sieve)	1 Cum	490.00
(B)	Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	1 Cum	415.00
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	424.00
41	Stone other than granite broken to 5cm. size.	1 Cum	186.00
42	Stone other than granite broken to 4 cm. size.	1 Cum	199.00
43	Stone other than granite broken to 2 cm. size.	1 Cum	217.00
44	Stone other than granite broken to 1cm. size.	1 Cum	224.00
45	Stone boulder 15cm. & above size granite picked up and nullah boulders.	1 Cum	89.00
46	Soiling stone boulder 15Cm. & above size picked up nullah boulders broken.	1 Cum	105.00
47	Stone boulder 15cm. & above size other than granite or laterite picked up and nullah boulders.	1 Cum	84.00
48	Soiling stone boulder 15Cm. & above size other than granite or laterite picked up nullah boulders broken.	1 Cum	95.00
49	Soling stone boulders 10 Cm. size picked up other than granite.	1 Cum	84.00
50	Hard broken soling stone other than granite (40mm. to 90mm.)	1 Cum	135.00
51	I.R.C. Grade I (90mm-45 mm.)	1 Cum	380.00
52	I.R.C. Grade II (63mm. to 45mm.)	1 Cum	427.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
53	I.R.C.Grade III (53mm. to 22.4mm.)	1 Cum	465.00
54	Laterite soling stone 23Cm. size	1 Cum	72.00
55	Laterite Stone rough dressed	1 Cum	372.00
56	Bamboo mat or talai.	1 Sqm.	85.00
57	Bamboo 1 ST class 7Cm. to 10Cm. dia & above 6m. long.	Each	100.00
58	a) Belongi Bomboo 2.51 Cm. to 4Cm. dia & above 5m. long.	Each	17.00
	b) Belongi Bomboo above 4Cm. dia & up to 7Cm. dia & above 5m. long.	Each	26.00
59	Sal bullahs 75mm. to 120mm. dia up to 5.5m. long.	1Mtr	69.00
60	Sal bullahs 150mm. to 200mm. dia up to 5.5m. long.	1Mtr	76.00
61	Sal bullahs above 200mm. & up to 250mm. dia & up to 2.75m. long.	1Cum.	6503.00
62	Sal bullahs above 200mm. & up to 250mm. dia above 2.75m. long & up to 4.75m. long.	1Cum	7284.00
63	Sal bullahs above 200mm. & up to 250mm. dia above 4.75m. long	1Cum	8430.00
64	Sal bullahs above 250mm. & up to 380mm. mean dia & up to 2.75m. long	1Cum	9478.00
65	Sal bullahs above 250mm. & up to 380mm. mean dia & above 2.75m. long up to 4.75m. long	1Cum	11733.00
66	Sal bullahs above 250mm. & up to 380mm. mean dia & above 4.75m. long.	1Cum	13181.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
67	Non-sal bullahs 75mm. mean dia of any length.	1Mtr.	33.00
68	Non-sal bullahs 100mm. mean dia of any length.	1Mtr.	41.00
69	Non-sal bullahs 125mm. mean dia of any length.	1Mtr.	52.00
70	Non-Sal bullahs 150mm. to 200mm. mean dia of any length.	1Mtr.	64.00
71	Non-Sal bullahs above 200mm. & up to 250mm. mean dia up to 2.5m. long.	1Cum.	4299.00
72	Non-Sal bullahs above 200mm. & up to 250mm. mean dia above 2.5m. long.	1Cum.	4790.00
73	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & up to 2.75m. long.	1Cum.	25934.00
74	Seasoned rough dressed sawn Sal wood having minimum dimension 50mm. to 150mm. & above 2.75m. long.	1Cum.	28378.00
75	Seasoned Sal wood beam of cross sectional area not less than 150Sq.cm. & least lateral dimension 100mm. & above 2,75m. long.	1Cum.	28340.00
76	Seasoned Sal wood planks not more than 75mm. thick & not less than 200mm. width.	1Cum.	25698.00
77	Seasoned Piasal wood planks for shutters.	1Cum.	40414.00
78	Seasoned Teak wood planks for shutters.	1Cum.	55964.00
79	Non Sal wood scantling & planks(Tentera, Kasi, Gamhari, Kuruma)	1Cum.	14548.00
80	Non-Sal reapers.	1Cum.	9340.00
81	Fire wood	1Qntl	320.00
82	1 st class Raniganj or Mangalore pattern tiles.	100 Nos.	700.00
83	Ridges of Raniganj or Mangalore parttern tiles.	100 Nos	1106.00
84	Flat tiles(14Cm. x14 Cm.x 1Cm.)	1000 Nos.	222.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
85	Flat tiles (15Cm x15Cmx 1.2 Cm)	1000 Nos.	247.00
86	Flat tiles (30Cm. x 15 Cm.x 2.5 Cm.)	1000 Nos.	1005.00
87	Flat tiles (30Cm. x 30 Cm.x 2.5 Cm.)	1000 Nos.	1210.00
88	Pan tiles	1000 Nos.	227.00
89	Nuria tiles(20Cm. to 25Cm.)	1000 Nos.	523.00
90	Nuria tiles(25Cm. to 30Cm.)	1000 Nos.	647.00
91	Ridge tiles	1000 Nos.	741.00
92	Marble Tiles of minimum 16 mm thick, dunguri Variety.		
	(a) Up to 0.10 Sqm.	1 Sqm.	409.00
	(b) Above 0.10 Sqm. to 0.40 Sqm.	1 Sqm	470.00
	(c) Above 0.4 Sqm. to 1.00 Sqm.	1 Sqm	561.00
93	Kota Tiles of minimum 16 mm thick		
	(a) Up to 0.10 Sqm.	1 Sqm	315.00
	(b) Above 0.10 Sqm.	1 Sqm	383.00
94	Khandolites (Up to 0.06 Sqm.)	1 Sqm	239.00
95	Granite Tiles		
	(a) Up to 0.10 Sqm. (10mm thick)	1 Sqm	1101.00
	b) Above 0.10 Sqm		
	(i)Above 0.10 Sqm & up to 0.4 sqm (10mm. thick)	1 Sqm	1343.00
	ii) Above 0.40 sqm. (20mm thick)	1 Sqm	1629.00
96	Kodappa Tiles of 10 mm thick		
	(a) Above 0.1 Sqm & Up to 0.40 Sqm.	1 Sqm	295.00
	(b) Above 0.40 Sqm.	1 Sqm	386.00
97	Dholpuri Stone Tiles.	1 Sqm	285.00
98	Glazed Tiles up to-		
	(a) 20cmx30cm wall tiles	1 Sqm	389.00
	(b) 30cm x 30cm floor tiles	1 Sqm	470.00
99	Chequered Tiles.	1 Sqm	194.00
100	Terrazo Tiles.		

Sl.No.	Name of items	Unit	Rate
1	2	3	4
	(a) With gray cement.	1 Sqm	186.00
	(b) With white cement	1 Sqm	232.00
101	Red oxide Primer	1 Litre	88.00
102	Wood Primer	1 Litre	94.00
103	Wood Shine Paint	1 Litre	96.00
104	Plastic Emulsion paint	1 Litre	172.00
105	Enamel paint	1 Litre	132.00
106	Distemper	1 Kg.	53.00
107	Cement paint	1 Kg.	32.00
108	Red oxide powder	1 Kg.	83.00
109	French polish	1 Litre	121.00
110	Varnish	1 Litre	107.00
111	Plaster of paris	1 Kg.	10.00
112	Coal Tar	1 Kg.	32.00
113	G.C.I. Sheet	1 Sqm.	196.00
114	A.C. Sheet	1 Sqm.	157.00
115	A.C. ridges	1 pair	157.00
116	6mm. Thick Plain A.C. Sheet	1 Sqm	184.00
117	Tar Paper	1 Sqm	11.00
118	Putty (Wood)	1 Kg.	26.00
119	Putty (Iron)	1 Kg.	85.00
120	Wire Nails	1 Kg.	37.00
121	M.S. Angle	1 Qntl.	3064.00
122	M.S. Channel	1 Qntl	3077.00
123	Bolt, Nut & Washers	1 Kg.	49.00
124	Holding down bolts minimum 60 Cm. long with 15Cm. x 15 Cm. x 6mm. size washer plate	1 Kg.	49.00
125	Binding Wire.	1 Kg.	39.00
126	Coir String	1 Kg.	41.00
127	Empty Cement bags (HDPE) by lot & not shorted out	100 nos	367.00
128	Straw in Bundle	100 nos	208.00
129	Marble Chips.	1qntl	458.00
130	Marble Powder	1qntl	309.00
131	Cement		
	a) 33 grade	1qntl	341.00
	b) 43 grade	1qntl	354.00
	c) 53 grade	1qntl	363.00
132	White Cement.	1qntl	1489.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
133	Steel		
	a) Plain	1qntl	2858.00
	b) HYSD (FE-415)	1qntl	2881.70
134	"Z" type Steel Sheet Piles .	1qntl	3457.00
135	Bentonite powder	1qntl	206.00
	Oxidized mild steel fittings (I.S.I.)		
136	Butt hinges (I.S.I.)		
	a) 50x37x1.50mm	Each	4.00
	b) 75x47x0.70mm	Each	6.00
	c) 100x58x1.90mm	Each	10.00
	d) 125x65x2.12mm	Each	16.00
137	M.S. aldrop (I.S.I.)		
	a) 250x16mm	Each	65.00
	b) 300x16mm	Each	72.00
138	M.S. handle (I.S.I.)		
	a) 100mm	Each	10.00
	b) 125mm	Each	12.00
	c) 150mm	Each	15.00
139	M.S. tower bolt (I.S.I.)		
	a) 100x10mm	Each	12.00
	b) 150x10mm	Each	18.00
	c) 200x10mm	Each	23.00
140	M/S. Screw (I.S.I.)		
	a) 12x3mm	100 pcs	22.00
	b) 12x4mm	100 pcs	24.00
	c) 20x4mm	100 pcs	28.00
	d) 20x5mm	100 pcs	30.00
	e) 25x4mm	100 pcs	32.00
	f) 25x5mm	100 pcs	36.00
	g) 30x4mm	100 pcs	37.00
	h) 30x5mm	100 pcs	39.00
	i) 30x6mm	100 pcs	42.00
	j) 35x6mm	100 pcs	44.00
	k) 35x7mm	100 pcs	47.00
	l) 35x8mm	100 pcs	54.00
	m) 50x7mm	100 pcs	59.00
	n) 50x8mm	100 pcs	63.00
141	Steel window stay bar (I.S.I.)		
	a) 200mm	Each	17.00
	b) 250mm	Each	23.00
	c) 300mm	Each	26.00
142	Steel window handle including Nut, bolt & washer (I.S.I.)		

Sl.No.	Name of items	Unit	Rate
1	2	3	4
a)	100mm	Each	15.00
b)	150mm	Each	18.00
143	Welded mesh		
a)	25mmx25mmx11 gauge	Sqm	137.00
b)	25mmx25mmx13 gauge	Sqm	124.00
c)	50mmx25mmx11 gauge	Sqm	124.00
d)	50mmx25mmx13 gauge	Sqm	113.00
144	G.I. "L" & "J" hook	Kg	45.00
145	W.I. clamp	Kg	40.00
	Aluminium fittings (I.S.I.)		
146	Butt hinges (I.S.I.)		
a)	125mmx75mmx4mm	Each	50.00
b)	125mmx63mmx4mm	Each	41.00
c)	100mmx75mmx4mm	Each	38.00
d)	100mmx63mmx4mm	Each	36.00
e)	75mmx63mmx4mm	Each	20.00
f)	50mmx35mmx3.2mm	Each	9.00
147	Aluminium handle (I.S.I.)		
a)	150mm with 175mm x 40mm flat	Each	18.00
b)	125mm with 175mm x 40mm flat	Each	15.00
c)	100mm with 150mm x 33m flat	Each	14.00
d)	75mm with 118mm x 33mm flat	Each	19.00
148	Aluminium tower bolt (Barrel type) (I.S.I.)		
a)	300mm x10mm	Each	44.00
b)	250mm 10mm	Each	39.00
c)	200mm x 10mm	Each	36.00
d)	150mm x 10mm	Each	32.00
e)	100mm x 10mm	Each	26.00
149	Sliding door bolt (Aldrop) (I.S.I.)		
a)	300mm x 16mm	Each	165.00
b)	250mm x 16mm	Each	152.00
150	Brass fittings(I.S.I.) Butt hinges (light/Ordinary) (I.S.I.)		
a)	125mm x 70mm x 4mm	Each	42.00
b)	100mm x 70mm x 4mm	Each	30.00
c)	75mm x 40mm x 2.5mm	Each	20.00
d)	50mm x 40mm x 2.5mm	Each	10.00
151	But hinges (Heavy type) (I.S.I.)		
a)	125mm x 85mm x 5.5mm (0.07 kg)	Each	146.00
b)	100mmx85mm5.5mm (0.056Kg)	Each	124.00
c)	75mmx65mmx4mm (.02 kg)	Each	55.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
152	Brass tower bolt (Barrel type) (I.S.I.)		
	a) 250mm x 10-mm	Each	130.00
	b) 200mm x 10mm	Each	109.00
	c) 150mm x 10mm	Each	90.00
	d) 100mm x 10mm	Each	63.00
153	Brass Screws (I.S.I.)		
	a) 50mm	100 Nos	110.00
	b) 40mm	100 Nos	99.00
	c) 30mm	100 Nos	86.00
	d) 25mm	100 Nos	80.00
	e) 20mm	100 Nos	57.00
154	Chromium plated fittings (Brass) (I.S.I.) Handle (I.S.I)		
	a) 125mm with 175 x 32mm plate	Each	95.00
	b) 100mm with 150 x 25mm plate	Each	81.00
	c) 75mm with 125 x 25mm plate	Each	67.00
155	Wall cement primer (I.S.I.)		
	a) Oil bound	1 ltr	117.00
	b) Water bound	1 ltr	111.00
156	Aluminium paint (I.S.I.)	1 ltr	204.00
157	Weather seal coat (I.S.I.)	1 ltr	231.00
158	Adhesive (I.S.I.)		
	a) Dendrite type	1 Kg	182.00
	b) Fevicol type	1 Kg	153.00
159	Bitumenous expansion joint board (I.S.I.)		
	a) 12mm thick	Sqm	505.00
	b) 16mm thick	Sqm	728.00
	c) 25mm thick	Sqm	962.00
160	Barbed wire (I.S.I.)	Kg	37.00
161	Glass plain (I.S.I.)		
	a) 3mm	Sqm	269.00
	b) 4mm	Sqm	305.00
	c) 5mm	Sqm	398.00
	d) 6mm	Sqm	455.00
	e) 8mm	Sqm	717.00
	f) 10mm	Sqm	1025.00
	g) 12mm	Sqm	1167.00
162	Glass pin headed (I.S.I.)		
	a) 4mm	Sqm	197.00
	b) 5mm	Sqm	275.00
163	Black glass (I.S.I.)		

Sl.No.	Name of items	Unit	Rate
1	2	3	4
	a 4mm	Sqm	387.00
	b 5mm	Sqm	456.00
	c 6mm	Sqm	577.00
	d 8mm	Sqm	941.00
	E 12mm	Sqm	1500.00
164	Frosted glass (I.S.I.)		
	a 4mm	Sqm	362.00
	b 5mm	Sqm	407.00
165	Wire glass – 6 mm (I.S.I.)	Sqm	503.00
166	Sun-control film (I.S.I.)	Sqm	
	a. Reflective	Sqm	416.00
	b. Non-reflective	Sqm	273.00
167	Prelaminated particle board (Novapan standard type) (I.S.I.)		
	a. 9mm	Sqm	479.00
	b. 12mm	Sqm	543.00
	c. 18mm	Sqm	602.00
	d. 25mm	Sqm	727.00
168	BWR ply wood (I.S.I.)		
	a 3mm	Sqm	219.00
	b 4mm	Sqm	260.00
	c 6mm	Sqm	377.00
	d 9mm	Sqm	455.00
	e 12mm	Sqm	615.00
	f 16mm	Sqm	742.00
	g 19mm	Sqm	865.00
	h 25mm	Sqm	1273.00
169	BWR Block Board (I.S.I.)		
	a 16mm	Sqm	623.00
	b 19mm	Sqm	718.00
	c 25mm	Sqm	834.00
	d 32mm	Sqm	1014.00
170	Vinyle Flooring (I.S.I.)		
(A)	Homogeneous Range (I.S.I.)		
i)	PVC (MF) Classic roll- 1.00mm thick	Sqm	283.00
ii)	PVC (MF) classic tile- 1.00mm thick	Sqm	309.00
iii)	PVC (MF) impress roll-1.50mm thick	Sqm	371.00
iv)	PVC (MF) impress tile-1.50mm thick	Sqm	404.00
v)	PVC (MF) super roll- 2.00mm thick	Sqm	488.00
vi)	PVC (MF) super tile -2.00mm thick	Sqm	537.00
(B)	Heterogeneous Range (I.S.I.)		
i)	PVC (MF) Hetro roll- 2.00mm thick	Sqm	437.00

Sl.No.	Name of items	Unit	Rate
1	2	3	4
ii)	PVC (MF) hetro tile- 2.00mm thick	Sqm	490.00

NOTES:

- 1) Steel Bars of only manufacturing companies such as SAIL, are to be used in major structures like bridges ,multistoried buildings and water retaining structures.But rerolling steel bars should not be used in any work.
- 2) The cement of the companies having their own manufacturing units in the state of Orissa, are to be used in all works.
- 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.

I. Stone and Stone Products

- (1) The rates of materials are basic rates excluding cost of conveyance, royalty and other local taxes but including cost of stacking and C.S.T./V.A.T..
- (2) Normally blasted stones should not be used for soling stone where hand broken stones are available.
- (3) The box heaps of 1.5mx 1.5mx 0.44m is to be measured as 1 Cu. M.

II. Wood Work

- (a) The rate of wood work items are equivalent to the rates of Orissa Forest Corporation 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.
- (b) For wood works the supply rates as fixed by the Forest Corporation shall prevail over that stated in this schedule of rates.

III. Items under Miscellaneous Head

The rates under the sub-head under the Miscellaneous items are enclosure of labour and cost of all materials and conveyance except where otherwise mentioned in the description of items.

IV. Weight of Cement

14.30 quintals per one Cu. M.

V. Materials under E.P.M./D.G.S. & D.'s Rate

1. 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.

In case of items of work or for supply of materials, against which rates have been approved by the D.G.S & D. 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 D.G.S. & D.'s rates.

VI. Rate of Cement ,Steel and Bitumen will increase/decrease as mentioned below :

- 1) Steel : Rate as fixed by Steel Authority of India Limited (SAIL).**
- 2) Cement : average factory price of three manufacturers of cement inside the State.**
- 3) Bitumen : Rate as fixed by Indian Oil Corporation Limited(IOCL).**

II RATE OF LABOUR

Sl. No	DESCRIPTION	UNIT	RATE in Rs.
1	2	3	4
A	Category unskilled		
1	Male mulia	Per day	55.00
2	Female mulia	Per day	55.00
3	Survey Khalasi/ Chain man	Per day	55.00
4	Scavanger	Per day	55.00
B	Category Semi skilled		
1	Mulia working in water or arduous nature of work	Per day	65.00
2	Night mulia or attendant working in flood and other emergent work	Per day	65.00
3	Mulia for handling hot binder and Tar boiler men	Per day	65.00
4	Sangi mulia	Per day	65.00
5	Pile driving mate(Guide man)	Per day	65.00
6	Mate	Per day	65.00
7	Helper to carpenter or Blacksmith/ Painter/ Blaster/ Plumber/ Electrician/ Fitter/ Welder	Per day	65.00
8	Hammer man	Per day	65.00
9	Thatcher/ Gharami	Per day	65.00
10	Tile turner	Per day	65.00
11	Boat man	Per day	65.00
12	Bhisti	Per day	65.00
13	Well sinker	Per day	65.00
14	Rod binder and bender	Per day	65.00
15	Cleaner/ Sweeper	Per day	65.00
16	Stone packer	Per day	65.00
17	Pump helper	Per day	65.00
18	Watch man(Store)/Gurkha / Security Guard	Per day	65.00
19	Bellow man	Per day	65.00
C	Category Skilled		
1	Blaster(Second class)	Per day	75.00
2	Mason(Second class)	Per day	75.00
3	Black smith (Second class)	Per day	75.00
4	Carpenter(Second class)	Per day	75.00
5	Fitter(Second class)	Per day	75.00
6	Painter/ Polisher(Second class)	Per day	75.00
7	Welder(Second class)	Per day	75.00
8	Plumber(Second class)	Per day	75.00
9	Driller(Second class)	Per day	75.00
10	Stone dresser/ Cutter(Second class)	Per day	75.00
11	Cobbler with tools(Second class)	Per day	75.00
12	Wire man/ Lift operator / Diesel pump driver/ Telephone operator (		75.00

	Second class)		
13	Boring Mistrey/ Pipe driver	Per day	75.00
14	Electrician/ Rigger/ Line man/ Telephone attendant/	Per day	75.00
15	Gardener	Per day	75.00
16	Amin	Per day	75.00
17	Tracer	Per day	75.00
18	Jr. progress recorder	Per day	75.00
19	Store keeper Gr.- II/ Store Ast./ Account clerk/ Clerk/ Typist/ Toolkeeper/ Time keeper/ Munsu	Per day	75.00
D	Category Highly Skilled		
1	Blaster (lisenced)	Per day	85.00
2	Mason (special)	Per day	85.00
3	Carpenter(special)	Per day	85.00
4	Blacksmith(special)	Per day	85.00
5	Fitter(special)	Per day	85.00
6	Painter/ Polisher(special)	Per day	85.00
7	Welder(special)	Per day	85.00
8	Plumber(special)	Per day	85.00
9	Driller Special	Per day	85.00
10	Stone dresser/ Cutter(special)	Per day	85.00
11	Diver for well sinking in bridge (per shift of four hours.)	Per day	85.00
12	Electrician/ Air conditioned plant operator/ wire man/ Lift operator/ Disel pump operator special.	Per day	85.00
13	Jeep driver/ Tractor driver / Truck driver / Dozer driver / Roller driver /Concrete mixture operator / Crane operator	Per day	85.00
14	Auto electrician	Per day	85.00
15	Guinting Machine operator	Per day	85.00
16	Senior Accountant / Stenographer	Per day	85.00
17	Supervisor / Manager	Per day	85.00
18	Testing Laboratory Assistant / Instrument Mechanic/ Telephone Mechanic.	Per day	85.00
19	Riggger and Cobbler with Tools Driver (Heavy Vehicle)	Per day	85.00

Note :

1. Labour rates for un-skilled, Semi-skilled, Skilled and Highly skilled as are to be fixed from time to time by Labour Department under Minimum Wages Act shall prevail in respect of any category what so ever.
2. The rates for above four categories of labour are inclusive of weekly day of 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.)
E.	Other Category (Not covered by the Notification of Labour & Employment Department).		
01	Boring Mistry (Special)	Per Day	80.00
02	Winch operator	Per Day	110.00
03	Well Sinker (Special)	Per Day	170.00
04	Helper to Well Sinker	Per Day	80.00
05	Computer Programmer / Analyzer	Per Month	5000.00
06	Computer Operator	Per Month	4000.00
07	Helper to operator of Heavy construction Machineries	Per Month	3500.00
08	Mechanic for Heavy construction	Per Month	4000.00
09	Helper to mechanic for heavy construction machines.	Per Month	3000.00
10	Operator for Heavy construction	Per Month	5000.00
11	Junior Research Assistant (Technical Assistant)	Per Month	4000.00

III RATE FOR CONVEYANCE OF MATERIALS

ITEM NO-1. Conveyance of Materials by Ten Tonne Trucks including loading & unloading.

(Rupees in Rs.)

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 & 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 (per truck)	Iron, grills, cement, Bitumen, A.Csheet, 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	85.00	583.00	92.00	90.00	775.00
Every extra KM beyond 5 KM and up to 50 Km	5.00	24.00	5.00	5.00	24.00
Every extra KM beyond 50 KM	3.00	18.00	4.00	4.00	18.00

Note : Extra percentage to be allowed over the rates for

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.

ITEM NO. 2: Loading into Trucks and Unloading from trucks (Within 50 m lead) including stacking

Sl. No	Details of materials	Unit	Rate in Rs.
1	Rough stone, metal, khoa, chips, sand, surki, quarry rubbish, moorum, laterite stone, washed gravel, & earth etc.	1 Cum	47.00
2	Iron, grills,cement,Bitumen,A.Csheet,GCI Sheet ,Coke,coal lime etc	1 qtl.	6.00
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	285.00
4	Bulky material such as a) Hume pipes & furnitures	1 truck load	390.00
	b) Heavy machineries such as compressors ,concrete mixture,hotmix plant etc.	1 truck load	460.00

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

ITEM NO. 3 Carriage by Bullock Cart including Loading and Unloading

Sl. No	Distance to be carried.	Unit	Rate in Rs.
1	First KM	1 cart load	42.00
2	Subsequent KM	1 cart load	22.00

ITEM NO. 4 Unloading from Railway wagon and loading into trucks

Sl. No	Details of materials.	Unit	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.	0.90
	b) Steel A.Csheet, GCI Sheet , etc	1 Qtl.	3.50
2	Removing from railway platform and loading into trucks a) Cement, Bitumen, coal, paint etc	1 Qtl.	0.90
	b) Steel A.Csheet, GCI Sheet , etc	1 Qtl.	3.50

ITEM NO. 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.Csheet, 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.	19.00	5.00
2	Beyond 50 mtr and upto 100 mtr	22.00	7.00
3	Beyond 100 mtr and upto 150 mtr	33.00	11.00

ITEM NO. 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= 400 os 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(per0.125 cum)
1	2	3	4
	Rate in Rs.	Rate in Rs.	Rate in Rs.
A) In River	30.00	180.00	5.00
i)Up to 5 KM.			
ii)Every extra KM beyond 5.00 Km and upto 16 KM	3.00	16.00	0.50
iii)Every extra KM beyond 16 KM	1.50	10.00	0.40
B) In canal	20.00	150.00	4.00
i)Up to 5 KM.			
ii)every extra KM beyond 5.00 Km and upto 16 KM	3.00	12.00	0.50
iii)every extra KM beyond 16 KM	1.5	10.00	0.5

Item No.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	6.00 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 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

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.

Item No. 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

Item No -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		
	400mm x 200 mm x 200 mm	30 nos	22 nos
	400mm x 150 mm x 200 mm	40 nos	30 nos
	400mm x 100 mm x 200 mm	60 nos	45 nos
	300mm x 200 mm x 150 mm	55 nos	41 nos
	300 mmx 150 mmx150 mm	73 nos	55 nos
	300 mmx100 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.

IV-HIRE CHARGES OF PLANTS AND MACHINERIES

Sl. No.	DESCRIPTIONS			USAGE RATES IN RS.	
	Machine	Activity	Output	Unit	Rate
1	Dozer D-50 -A 15	Spreading	200cum/hour	per hour	1592.00
		Cutting	100cum/hour	per hour	
		Cleaning	150cum/hour	per hour	
2	Dozer D-80-A 12	Spreading	300cum/hour	per hour	2190.00
		Cutting	150cum/hour	per hour	
		Cleaning	250cum/hour	per hour	
3	Motor Grader 3.35meter blade	Clearing	200cum/hour	per hour	1545.00
		Spreading	200cum/hour	per hour	
		GSB	50cum/hour	per hour	
		WMM	50cum/hour	per hour	
4	Tractor with ordinary grader			per hour	251.00
5	Hydraulic Excavator of 1cum bucket	Soil ordinary	60cum/hour	per hour	840.00
		Soil Marshy	60cum/hour	per hour	
		Soil unsuitable	60cum/hour	per hour	
6	Hydraulic Excavator of 2cum bucket	Soil		per hour	1766.00
7	Front End loader 1 cum bucket capacity	Soil loading	60cum/hour	per hour	520.00
		Aggregate loading	25cum/hour	per hour	
8	Tipper-5cum	Transportation of soil, GSB, WMM, Hotmix etc.	5.5cum	per km.	24.00
				per tonne.km	2.00
				per hour	506.00
9	Vibratory Roller 8-10 tonne	Earth/soil	100cum/hour	per hour	994.00
		GSB	60cum/hour	per hour	
		WMM	60cum/hour	per hour	
10	Smooth wheeled Roller 8 -10 tonne	Soil compaction	70cum/hour	per hour	269.00
		BM compaction	25cum/hour	per hour	
11	Sheep foot Roller	Soil compaction		per hour	60.00
12	Truck mounted water tanker	Water transport	6KL	per hour	506.00
13	Tractor	Pulling	50HP	per hour	231.00
14	Rotavator	Mixing	25cum/hour	per hour	11.00
15	Ripper	Scarifying	60cum/hour	per hour	18.00
16	Air Compressor	General purpose	170/250cfm	per hour	206.00
17	Diesel Compressor		400cfm	per hour	774.00
18	Diesel Compressor		300cfm	per hour	658.00
19	Electrical Compressor		500cfm	per hour	432.00
20	Wet Mix Plant 60 TPH	Wet Mix	25cum/hour	per hour	777.00
21	Wet Mix Plant 75 TPH	Wet Mix	34cum/hour	per hour	1036.00
22	Mechanical broom hydraulic	Surface cleaning	1250sqm/hour	per hour	230.00
23	Bitumen pressure distributor	Applying bitumen tack coat	1750sqm/hour	per hour	692.00

24	Emulsion pressure distributor	Applying emulsion tack coat	1750sqm/hour	per hour	516.00
25	Hotmix plant -120 TPH	DBM/BM/SDC/Premix	40cum/hour	per hour	15100.00
26	Hotmix plant -100 TPH	DBM/BM/SDC/Premix	30cum/hour	per hour	11167.00
27	Hotmix plant -60 to 90TPH	DBM/BM/SDC/Premix	25cum/hour	per hour	8930.00
28	Hotmix plant -40 to 60TPH	DBM/BM/SDC/Premix	17cum/hour	per hour	7150.00
29	Hotmix plant -8 to 10TPH	Premix	cum/hour	per hour	1025.00
30	Paver Finisher Hydrostatic with sensor control 100 TPH	Paving of DBM /BM /SDC/Premix	40cum/hour	per hour	1725.00
31	Paver Finisher Mechanical 100 TPH	Paving of WMM/PMC	40cum/hour	per hour	739.00
		Paving of DLC	30cum/hour	per hour	
32	Paver Finisher Mechanical	Paving of DLC	75cum/hour	per hour	1846.00
33	Hydraulic Chips Spreader	Surface Dressing	1500sqm/hour	per hour	1700.00
34	Tandem Road Roller	Rolling of Asphalt surface	30cum/hour	per hour	738.00
35	Pneumatic Road Roller	Rolling of Asphalt surface	25cum/hour	per hour	802.00
36	Pot hole repair machine	Repair of pot holes	4cum/hour	per hour	585.00
37	Bitumen boiler oil fired	Bitumen spraying	1500Litre	per hour	128.00
38	Tar boiler	Bitumen spraying		per hour	74.00
39	GSB Plant 50 cum	Producing GSB	40cum/hour	per hour	670.00
40	Mastic Cooker	Mastic Wearing Coat	1tonne	per hour	1442.00
41	Batching and Mixing plant 15-20cum	Concrete Mixing	13cum/hour	per hour	1200.00
42	Batching and Mixing plant 30cum	Concrete Mixing	20cum/hour	per hour	1440.00
43	Batching and Mixing plant 112.5cum	Concrete Mixing	75cum/hour	per hour	2760.00
44	Batching and Mixing plant 262.5cum	Concrete Mixing	175cum/hour	per hour	5160.00
45	Transit Mixer	Transportation of concrete mix to site	4.5cum/hour	per hour	600.00
			3cum/hour	per hour	550.00
46	Grout pump			per hour	62.00
47	Concrete pump of 45 & 30 cum	Pumping Concrete	33cum/hour 22cum/hour	per hour	165.00
48	Pump with 5HP diesel engine	Pumping of Water		per hour	58.00
49	Pump with 10HP diesel engine	Pumping of Water		per hour	98.00
50	Pump with 20HP diesel engine	Pumping of Water		per hour	152.00
51	Pump with 40HP diesel engine	Pumping of Water		per hour	255.00
52	Pump with 40HP electrical			per hour	145.00
53	Pump with 50HP electrical			per hour	179.00
54	Cranes 80 tonnes	Lifting purpose		per hour	825.00
55	Cranes 35 tonnes	Lifting purpose		per hour	550.00
56	Cranes 3 tonnes	Lifting purpose		per hour	230.00
57	Crawler mounted Crane (18T)	Lifting purpose		per hour	1660.00
58	Tower Crane	Lifting purpose		per hour	501.00
59	Welding transformer	Welding		per hour	79.00
60	Gunning machine without compressor			per hour	91.00
61	Mechanical Winch (10T)			per hour	224.00

62	Power Winch (40HP)			per hour	220.00
63	Concrete Bucket	For pouring concrete	1cum	per hour	10.00
64	Kerb casting machine	Kerb making	80RM/hour	per hour	200.00
65	Concrete Mixer a)04/0.28 cum b)01cum	Concrete Mixing	2.5cum/hour	per hour	161.00
			7.5cum/hour	per hour	
66	Vibrator (3HP diesel)	Compacting Concrete		per hour	95.00
67	Piling Rig with Bantonite Pump	0.75m dia to 1.2m dia Boring Attachment	2 to 3RM/hour	per hour	3525.00
68	Concrete Paver Finisher with 40HP Motor	Paving of Concrete Surface	20cum/hour	per hour	1850.00
69	Integrated stone crusher	Crushing of Spalls	100TPH	per hour	5590.00
		Crushing of Spalls	200TPH	per hour	11760.00
70	Stone crusher (electrical)	Crushing of Spalls		per hour	176.00
71	Crushing & processing plant (electrical)			per hour	228.00
72	Concrete Paver Finisher with 40HP Motor	Paving of Concrete Surface	175cum/hour	per hour	16188.00
73	Prestressing Jack with Pump & Access	Stressing of Steel Wires/Stand		per hour	83.00
74	Generator 100KVA	Generation of Electric Energy	100KVA	per hour	450.00
75	Generator 250KVA	Generation of Electric Energy	100KVA	per hour	1125.00
76	Generator 33KVA	Generation of Electric Energy	50KVA	per hour	240.00
77	Generator 40KVA	Generation of Electric Energy	KVA	per hour	386.48
78	Generator 125KVA	Generation of Electric Energy	KVA	per hour	823.00
79	Pneumatic Sinking Plant	Pneumatic Sinking of wells	1.5 to 2.0 cum/hour	per hour	2690.00
80	Truck 5.5cum per 10 tonnes	Material Transport	4.5cum	Per Km.	20.00
				per tonne.km	2.00
				per hour	506.00
81	Road Marking machine	Road marking	100sqm/hour	per hour	60.00
82	Mobile Slurry Seal Equipment	Mixing and laying slurry seal	2700sqm/hour	per hour	650.00
83	Wagon drill			per hour	128.00
84	Dimond drill			per hour	338.00
85	Inwell rings			per hour	72.00
86	Jack hammer			per hour	8.00
87	Pneumatic rammer			per hour	13.00
88	Pusher leg			per hour	5.00

V. EARTH WORK

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
1. (a)	Earth work in ordinary soil within 50m. initial lead and 1.5m. initial lift including rough dressing and breaking clods to maximum 5Cm. to 7Cm., laying in layers not exceeding 0.3m., in depth and as per direction of the Engineer-in-charge.	100Cu.M.	1971.20	
(b)	Earth work in ordinary soil in embankment, roads, etc. within 50m. initial lead and 1.5m. initial lift including rough dressing and breaking clods to maximum 5cm. to 7cm. and laying in layers not exceeding 0.3m. in depth and as per specification approved by the department along with proper compaction with P.R.R. including hire and running charges of P.R.R. (section measurement to be taken on the finished compacted section of the fill).	100Cu.M	2305.60	
(c)	Earth work in ordinary soil in embankment, roads, etc. within 50m. initial lead and 1.5m. initial lift including rough dressing and breaking clods to maximum 5cm. to 7cm. and laying in layers not exceeding 0.3m. in depth and as per specification approved by the department including proper compaction with H.R.R. (section measurement to be taken in the finished compacted section of the fill).	100Cu.M	2243.20	
(d)	Earth work in ordinary soil in embankment and roads, etc. maximum laboratory dry density not less than 1.44gms./1.52gms./1.65gms. per cubic centimeter in road embankment respectively up to 3m./more than 3m. high and top 0.5m. below sub-grade level, within 50m. initial lead and 1.5m. initial lift from approved borrow pits 5m. away from toe of the final section of the road embankment, bottom of the pit not being cut by an imaginary line having a slope 1:4 projected from the edge of the final section of the bank including rough dressing and breaking clods maximum 5cm. to 7cm. and laying in layer, each layer not exceeding 23cm. in depth up to required level including removal of roots, shrubs, bushes and all foreign debris from the earth and benching the old embankment, sectioning and cambering the earth work and conveyance of all	100Cu.M	4393.80	

Sl. No.	Description of Items	Unit	Rate
	materials, T & P articles required for the work and complete in all respect as per specification of work and direction of the Engineer-in-charge and to be measured on section measurement after compaction under O.M.C. condition (per 100 Cu.M.) including cost of controlled compaction with P.R.R., watering up to O.M.C. and confirming to approved specification including hire and running charges of P.R.R.		
2.(a)	Earth work in hard soil or gravelly soil within 50m. initial lead and 1.5m. initial lift including rough dressing and breaking clods to maximum 5Cm. to 7Cm.,and laying in layers to exceeding 0.3m., in depth and as per direction of the department.	100Cu.M	2648.80
(b)	Earth work in hard soil or gravelly soil in embankment, roads, etc. within 50m. initial lead and 1.5m. initial lift including rough dressing and breaking clods to maximum 5cm. to 7cm. and laying in layers not exceeding 0.3m. in depth and as per specification approved by the department along with proper compaction with P.R.R. including hire and running charges of P.R.R. (section measurement to be taken on the finished compacted section of the fill).	100Cu.M	2983.20
(c)	Earth work in hard soil or gravelly soil in embankment, roads, etc. within 50m. initial lead and 1.5m. initial lift including rough dressing and breaking clods to maximum 5cm. to 7cm. and laying in layers not exceeding 0.3m. in depth and as per specification approved by the department including proper compaction with H.R.R. (section measurement to be taken in the finished compacted section of the fill).	100Cu.M	2920.80
(d)	Earth work in hard soil or gravelly soil in embankment and roads, etc. maximum laboratory dry density not less than 1.44Gms./1.52gm./1.65gms. per cubic centimeter in road embankment respectively up to 3m./more than 3m. height and top 0.5m. below sub-grade level, within 50m. initial lead and 1.5m. initial lift from approved borrow pits 5m. away from the toe of the final section of the road embankment, bottom of the pit not being cut by an imaginary line having a slope 1:4 projected form the edge of the final section of the bank including rough dressing and breaking clods to maximum 5cm. to 7cm. size and laying in	100Cu.M	5071.40

Sl. No.	Description of Items	Unit	Rate
	layers, each layer not exceeding 23cm. in depth up to required level including removal of roots, shrubs, bushes and all foreign debris from the earth and benching the old embankment, sectioning and cambering the earth work cost and conveyance of all materials, T & P articles required for the work and complete in all respect as per specification of works and direction of the Engineer-in-charge and to be measured on section measurement after compaction under O.M.C. condition (per 100 Cu.M.) including cost of controlled compaction with P.R.R., watering up to O.M.C. and confirming to approved specification including hire and running charges of P.R.R.		
3.	Earth work in stoney earth and gravels mixed with stone boulders not exceeding 0.014 Cu.M. in volume within 50m. initial lead and 1.5m. initial lift including rough dressing and breaking clods to maximum 5cm. to 7cm. and laying in layers not exceeding 0.3m. in depth and as per specification approved by the Department.	100Cu.M	4130.90
4.	Earth work in Slushy soil (in water up to 0.6m. depth requiring the aid of pans and vessels) within 50m. initial lead and 1.5m. initial lift as per the direction approved by the Department.	100Cu.M	2710.40
5.	Cutting in Disintegrated rock not requiring blasting to be removed by pick axes and crow bars and depositing materials within 50m. initial lead and 1.5m. initial lift including rough dressing as per direction and specification of the Department including stacking the useful materials separately as ordered.	100Cu.M	6714.40
6.	Blasting hard and compacted sheet rock excluding sand stone measured in solid including jumping hole and cost of explosives, fuse, detonator, etc. and stacking the blasted debris clear of work within 50m. lead all by manual labour operation.	1 Cu. M.	219.90
7.	Extra lead of 25m. or part there of over the initial lead of 50m. for earth work in all kinds of embankment, road works and ordinary earth work in general.		
	(a) 50m. to 75m.	100Cu.M	184.80

Sl. No.	Description of Items	Unit	Rate
	(b) 75m. to 100m.	100Cu.M	215.60
	(c) 100m. to 125m.	100Cu.M	246.40
	(d) 125m. to 150m.	100Cu.M	277.20
	(e) 150m. to 175m.	100Cu.M	308.00
8.	Extra lift of 1.5m. or part there of over the initial of 1.5m. in all kinds of embankments, road works and ordinary earth works in general.		
	1 st extra lift of 1.5m. (Up to 7.5m.)	100Cu.M	252.60
9.(a)	Ramming or rolling earth work with light H.R.R. in embankment in layers not exceeding 0.3m	100 CuM	272.00
(b)	(i) Compacting and watering upto O.M.C. rolling earth work with P.R.R. in embankments in layers in layers not exceeding 0.23m including hire & running charges of the roller (measurement to be taken on the finished compacted section of the fill under O.M.C. condition)	100 cum	2422.60
	(ii) Ordinary compacting by P.R.R.	100 cum	334.40
10.	Fine dressing of earth work in ordinary or hard soil in road formation according to the direction of the department including cutting or filling earth upto 0.15m depth of surface	100 sqm	61.60

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
11.	Triangular or square section of 0.15m trench cutting for alignment and demarcation purpose of dug belling 10cm. to15 cm.	1 mtr	1.00	
12.	Puddle filling of good clay including initial lead of 50m and1.5m initial lift.	100 cum	5728.80	
13.	Sectioning and cambering earthwork in road formation to proper specification approved by the Department.	100 cum	46.20	
14.	Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer-in-charge.	100 cum	2/3 rate of respective item of work	
15.	Filling in foundation and plinth with sand watered and rammed (Labour only)	100 cum	761.40	
16.	Fine dressing and turfing with initial lead of 50 m and 1.5 m initial lift as per direction of Engineer-in-charge	100 sqm	181.10	
17.	Extra lead of 50m or part thereof over the initial lead of 50m. for turfing.	100 sqm	58.50	
18.	Extra lift of 1.5m of part thereof over initial lift of 1.5m for turfing.	100 sqm	25.90	
19.	Excavation of foundation in hard rock (granite) removed by chiseling including dressing and leveling the bed not exceeding 1.5m depth and depositing the soil within initial lead of 50m. and as per specification approved by the department.	1cum	349.90	
20.	Excavation of foundation in laterite rock or any hard rock (other than granite or disintegrated rock) removed by chiselling including dressing and benching the bed not exceeding 1.5 m., depth and depositing the soil within initial lead of 50 m. as per specification approved by the Department.	1 cum	230.40	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
21.	Shoring and shuttering foundation trenches pits etc. with close wooden planks or sheet shuttering etc. excluding cost of planks and sheets (Labour only).	1 sqm	42.00	
22.	Earth work in open well excavation with lead upto 50m. for 100 Cu.M.			
	(a) 1 st depth of 1.5m initial rate of excavation of foundation of same nature of soil.			
	(b) 2 nd depth of 1.5m –1½ times initial rate + 1½ times lift			
	(c) 3 rd depth of 1.5m –2 times initial rate + 2½ times lift			
	(d) 4 th depth of 1.5m –2½ times initial rate + 3½ times lift			
	(e) 5 th depth of 1.5m –3 times initial rate + 4½ times lift			
	(f) 6 th depth of 1.5m –3½ times initial rate + 5½ times lift			
	(g) 7 th depth of 1.5m –4 times initial rate + 6½ times lift			
	(h) 8 th depth of 1.5m –4½ times initial rate + 7½ times lift (and so on for further depths)			

SPECIAL NOTE:

- i. Ordinary Soil – Light black cotton, Sandy earth, sandy loam, dry silt, fragile, red earth, soft earth and soft moorum.
- ii. Hard soil – Hard stiff clay, stiff black cotton, hard red earth, shales, moorum ordinary gravels.
- iii. Stoney Earth – Earth mixed with gravel and boulders not exceeding 0.014 Cu.m. in volume
- iv. 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.
- v. 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.
- vi. Dewatering during excavation to be paid as per actuals.

- vii. 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.
- viii. 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.
- ix. 10% excess on the above rates will be allowed on the works being executed in side jail premises.

VI. SPECIAL ITEMS FOR IRRIGATION WORKS

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
1.	Excavation of any approved type of soil in approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within initial lead of 1km on properly prepared and scientifically approved surface including spreading and levelling the earth in 22.5 cm layers to make ready for watering and compaction with sheep foot rollers and dozers but excluding watering and compaction in dams and dykes for all heights including construction, maintenance, watering and lighting of haul road and borrow area etc. complete as per the direction of Engineer-in-charge. (measurement of the fill to be taken on the finished compacted section under OMC condition.)	1cum	48.60	
2.	Watering earthwork upto OMC condition and compaction by sheepfoot rollers and dozer in layers not exceeding 22.5 cm to required density including hire and running charges of all the machineries complete as per direction of Engineer-in-charge. (measurement to be taken on the finished compacted section of the fill under OMC condition.	1 cum	25.20	
3.	'Fine dressing and turving the slopes of the dam or dyke with compact Dub grass with all lifts and within initial lead of 1km and as per the direction of the Engineer-in-charge.	1 Sqm	2.00	
4.	'Supplying and spreading sand of approved specification on compacted surfaces of earth dam or dykes for filter blanket and other horizontal filter zone to proper thickness including surface dressing and transportation of sand within initial lead complete as directed by the Engineer-in-charge.	1cum	59.10	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
5.	Supplying and spreading 20mm down graded chips satisfying filter criteria in horizontal filter zones and filter blankets to proper thickness including surface dressing and transportation of materials within an initial lead complete as directed by the Engineer-in-charge	1 cum	750.20	
6.	'Supplying and spreading 40mm to 20mm size granite metal filter in horizontal filter zones and filter blankets including levelling etc complete within an initial lead as directed by the Engineer-in-charge.	1 cum	639.40	
7.	'Supplying and spreading sand of approved specification for filter in rock toe riprap and filter drains in earth dam and dyke to proper slope and level within an initial lead as directed by the Engineer-in-charge.	1 cum	64.20	
8.	'Supplying and spreading granite chips of size 20mm down graded in filter in rock toe riprap and filter drains in earth dam or dyke to proper slope and level within an initial lead as directed by the Engineer-in-charge.	1 cum	757.80	
9.	'Supplying and spreading 40mm to 20mm size granite metal in filter in rock toe riprap and filter drains in earth dam or dyke to proper slope and level within an initial lead as directed by the Engineer-in-charge.	1 cum	647.70	
10.	'Supplying and filling sand of approved specification in vertical chimney to proper line & level using removable sheet metal separators with all leads and lifts upto designed height of filter chimney within an initial lead as directed by the Engineer-in-charge.	1 cum	66.30	
11.	'Providing dry rubble rock toe with blasted and quarried granite boulders of sizes 30cm and above with all leads and lifts including dumping with packing interstices properly and surface packing to proper line and level complete as directed by the Engineer-in-charge. (No deduction to be made towards voids in finished section.)	1 cum	205.40	
12.	'Providing stone riprap to the slopes of earthdam and dyke with quarried and blasted granite stone boulders of size 0.30m and above including dumping on slopes	1 cum	220.10	

Sl. No.	Description of Items	Unit	Rate
	filling interstices with small stones & wedges and packing surface to proper line and levels including fixing wave breakers complete with all leads & lifts complete as directed by the Engineer-in-charge. (No deduction towards voids in finished section.)		
13	'Excavation in all kinds of soil including moorum, stoney earth, gravel etc. excepting all kinds of rock & boulders exceeding 0.014cum in volume for dam base stripping, cut-off trenches, outfall drains and stripping in borrow areas including rough dressing and dumping the excavated materials away from work site manually within 50m initial lead and 1.5m initial lift as per the direction of Engineer-in-charge including stacking of useful materials as directed.	1 cum	28.70
14	'Excavation of foundation in Disintegrated rock not requiring blasting to be removed by pick axes and crow bars and depositing excavated materials manually within 50m. initial lead and 1.5m. initial lift including stacking useful materials separately as per direction of Engineer-in-charge.	1 cum	66.00
15	'Excavation of foundation in hard rock of all toughness and boulders above 0.03 cum in volume by mechanical drilling and appropriate blasting within 50 m. initial lead and 1.5 m. initial lift including rough dressing as per specification of the department including stacking useful stones and disposal of muck manually as directed by the Engineer-in-charge	1 cum	171.10
16	'Excavation, loading, unloading and carriage by mechanical means of all kinds of soil, including stoney earth, gravel and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the the excavated materials away from work site as per the specification and as directed by the Engineer-in-charge within an initial lead of 1km from the place of excavation complete.	1 cum	45.80
17	'Excavation, loading and carriage by mechanical means in D.I. rock, laterite and soft rock not requiring blasting interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the excavated materials away from work site as per the specification and as directed by the Engineer-in-charge within an initial lead of 1km from the place of excavation complete.	1 cum	58.80
18	'Excavation of hard rock of all toughness in canal and cutoff trench of earth dam and other deep cutting sections by mechanical drilling and appropriate blasting	1 cum	196.00

Sl. No.	Description of Items	Unit	Rate
	with all lifts and delifts, loading into and transportation by transport vehicle within 1 km of initial lead and depositing the excavated materials neatly in specified dump yard as directed by Engineer-in-charge and trimming of bed and slope to the design finished section by manually, if necessary complete. (Recovery of useful materials of all sizes will normally be 0.7 cum per cum of excavation measured in dump condition. In case of change of recovery due to rock condition, percentage is to be fixed by Chief Engineer-in-charge).		
19	'Preparation of bed of foundation by wedging and barring in hard rock including removal of loose rock complete and disposal of muck by mechanical means within initial lead & lift as directed by Engineer-in-charge.	1 cum	275.00
20	'Clearance of slush and muck from foundation pit by manual means including removal of debris within 50 m. initial lead and initial lift of 1.5m as directed by the Engineer-in-charge.	1 cum	39.90
21	'Preparation of foundation bed in hard rock requiring chieselling, hammering and tampering; wire brushing and air & water jetting etc including hire charges of all equipments and T & P etc. complete for dams, barrages and power house etc. over rock foundation as directed by Engineer-in-charge.	1 Sqm	50.60
22	'Fixing 25 mm. dia anchor bars in foundation rock including drilling 35 mm. dia holes, fixing wedged anchor and grouting with cement mortar 1:4 complete as per the direction of Engineer-in-charge excluding cost of M.S. rods for dams, barrages and power house structures including pull testing of 30% of anchors. (Depth of hole only to be measured for payment purpose).	1 RM	185.20
23	'Random rubble stone masonry in dams, barrages and weirs etc. with cement mortar 1:3 with quarried stone boulders of approved quality including providing all materials, machineries and labour etc complete as per the direction of Engineer-in-charge including construction of necessary ramps, cat ways etc. for all lifts and delifts upto 10m of dam from average N.S.L. of block.	1 cum	1320.40
24	'Random rubble stone masonry in dams, barrages and weirs etc. with cement mortar 1:4 with quarried stone boulders of approved quality including providing all materials, machineries and labour etc complete as per the direction of Engineer-in-charge including construction of necessary ramps, catways etc. for all lifts and delifts upto 10m of dam from average N.S.L. of block.	1 cum	1084.80

Sl. No.	Description of Items	Unit	Rate
25	'Cement concrete M10 grade with crushed granite coarse aggregate of size 40mm down graded mixed in batching and mixing plant including cost of all materials, machineries and labour for materials up to mixing yard and transportation of mixed concrete within initial lead of 1km by mechanical means and laying in dams, barrages, power house and pen stock with all lifts/delifts upto 1.5m height above average ground level as per direction of Engineer-in-charge.	1 cum	1615.80
26	'Cement concrete M15 grade with crushed granite coarse aggregate of size 40mm down graded mixed in batching and mixing plant including cost of all materials, machineries and labour and transportation of mixed concrete within initial lead of 1km by mechanical means and laying in dams, barrages, power house and pen stock with all lifts/delifts upto 1.5m height above average ground level as per direction of Engineer-in-charge. (Cost of transportation of materials to be added)	1 cum	1823.10
27	'Cement concrete M15 grade with crushed granite coarse aggregate of size 20mm and down graded mixed in batching and mixing plant including cost of all materials, machineries and labour with a lead of 1 km for materials upto mixing yard and transportation of mixed concrete within initial lead of 1km by mechanical means and laying in dams, barrages, power house and pen stock with all lifts/delifts upto 1.5m height above average ground level in respective blocks as per direction of Engineer-in-charge.	1 cum	2006.40
28	'Cement concrete M20 grade with crushed granite coarse aggregate of size 20mm and down graded mixed in batching and mixing plant including cost of all materials, machineries and labour and transportation of mixed concrete within initial lead of 1km by mechanical means and laying in dams, barrages, power house and pen stock with all lifts/delifts upto 1.5m height above average ground level in respective blocks as per direction of Engineer-in-charge.	1 cum	2236.10
29	'Providing porous cement concrete pipes of size 0.69m x 0.69m cross section with 23cm dia holes with porous concrete 1:3.5 proportion with 20mm downgraded coarse aggregate within initial lead of 1km and lift/ delift of 20m from average N.S.L. of dam block including supply of all materials, shuttering charges, labour charges including positioning in dam with curing complete as per the direction of Engineer-in-charge.	1 RM	1184.50

Sl. No.	Description of Items	Unit	Rate
30	'Flush pointing to stone masonry in cement mortar 1:3 including racking out joints 5mm deep, cleaning, pressing cement mortar finishing and curing including cost of materials, labour, scaffolding with an initial lead upto 1km and lift upto 10m etc. complete as per the direction of Engineer-in-charge.	1 Sqm	52.60
31	'Rule pointing to stone masonry in cement mortar 1:3 including racking out joints 5mm deep, cleaning, pressing cement mortar finishing and curing including cost of materials, labour, scaffolding with an initial lead up to 1km and lift up to 10m etc. complete as per the direction of Engineer-in-charge.	1 Sqm	61.90
32	'25mm thick (average) cement plaster in contraction joints in masonry dams in cement mortar 1:3 including surface preparation by racking out joints etc.and curing including cost of materials, labour, scaffolding with an initial lead up to 1km and lift up to 10m etc.complete as per the direction of Engineer-in-charge.	1 Sqm	90.80
33	'Providing contraction joints of masonry and concete dams by installation of two lines of Z-type copper sealing strips of 16 S.W.G (1.63mm thick) excluding cost of copper strips, G.I. pipes of 20mm dia, fabrication, filling with asphalt of approved grade complete, excluding cost of copper sheet as per the direction of Engineer-in-charge. (Any plastering or shuttering required for groove or notch to be paid separately.)	1 RM	658.20
34	'Providing contraction joint in the dam including fixing one line of Z-type copper sealing strip of 16 SWG (1.63 mm thick) and one line of P.V.C. water stop of approved design including fixing 20 mm dia G.I. pipes for heating and filling with asphalt of approved grade but excluding cost of copper strip and P.V.C. strip but including cost of all other materials complete including jointing sheets with bredzing/araldite etc. as directed by the Engineer-in-Charge (Any plastering or shuttering required for groove or notch to be paid separately).	1 RM	599.00
35	'Providing P.V.C. water stop for drainage gallery as per approved design including fixing in proper alignment and joining with araldite etc. excluding cost of P.V.C water stop as directed by Engineer-in-Charge.	1 RM	112.10
36	'Providing rigid shuttering with the box type steel shuttering plates with keys for intermediate construction joints in rafts of weirs, barrages and dam blocks including cost of all materials, labour, T. & P. etc. complete as directed by the Engineer-in-charge	1 Sqm	66.60

Sl. No.	Description of Items	Unit	Rate
	including removal of forms.		
37	'Providing formwork for concrete with F1 finish for upstream faces of dam, spillway, glacis of barrages, unexposed surfaces of foundation, block joints etc.with steel shutters rigidly fixed and removal of forms and making good to the surfaces where necessary complete with all labour, materials and T & P complete as directed by the Engineer-in-charge.	1 Sqm	187.40
38	'Providing formwork for concrete with F2 finish for all permanently exposed surfaces not prominently exposed to public view such as in galleries, adits, bridges, retaining walls, open spillways etc. with steel shutters or plywood shutters including supply of rigid tie and supports with all labour, materials and T & P complete including finishing complete as directed by the Engineer-in-charge (abrupt surface irregularities over 5mm and gradual over 10mm measured with 1.5m template is not permitted).	1 Sqm	206.20
39	'Providing formwork for concrete with F2 finish for all permanently exposed surfaces not prominently exposed to public view such as in bucket, ogee, pier noses and other curved surfaces with steel shuttering plates including supply of rigid ties and supports with all labour, materials and T & P including finishing complete as directed by the Engineer-in-charge.(abrupt surface irregularities over 5mm and gradual over 10mm measured with 1.5m template is not permitted).	1 Sqm	219.20
40	'Providing Blockouts in concrete for fixing embedded parts in gate grooves and other embedments for dams and barrages etc. with wooden planks with cost of all materials labour charges, T & P etc complete including fixing anchor rods complete as directed by the Engineer-in-charge.(Cost of anchor bars to be paid separately)	1 Sqm	455.70
41	'Supplying, Manufacturing & Fixing Embedded parts in concrete including anchoring and Placing in specified positions including supply of all materials, Labour, T&P etc. for manufacturing embedded parts as per design and fixing in position in proper alignment by welding rigidly to reinforcement as directed by Engineer-in-charge.	1 Qtl	5126.10
42	'Manufacturing 400mm dia vent pipes from 3.15mm thick M.S. plates and embedding the same in concrete or masonry in dam including necessary supporting arrangement before embedment complete as directed by the Engineer-in-charge.	1 RM	1269.80

Sl. No.	Description of Items	Unit	Rate
43.	'Providing and laying cement concrete of grade M15 with 20mm.down graded granite coarse aggregate for concrete lining to the bed and slopes of canal with sleeper beams, keys etc.in pannels including supply of all materials, labour and machineries compacting with space vibrator or manually and finishing the concrete surface including trimming and dressing of canal bed and slopes including cutting trenches for sleeper beam, keys and drainage etc.including watering and compaction of slopes and bed with hand rammers to proper profile and supplying and laying polythene film of 100 micron complete as directed by the Engineer-in-charge.	1 Cum	2254.90

Note :

Rate of any other item for dam construction will be adopted as specified in other chapters of this Schedule of Rates 2006

VII. CONCRETE

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
1.	Grinding lime mortar (Labour only)	1 cum	198.20	
2.	Concrete with broken stone in lime mortar (1:2) with 4 cm. size metal	1 cum	1006.50	
3.	Cement concrete (1:3:6) with 4 Cm. size hard granite metal	1 cum	1501.00	
4.	Cement concrete (1:4:8) with 4 cm size hard granite metal	1 cum	1287.20	
5.	Cement concrete (1:5:10) with 4 cm. size hard granite metal	1 cum	1159.70	
6.	Cement concrete (1:6:12) with 4 cm. size hard granite metal	1 cum	1073.40	
7.	Cement concrete (1:2:4) with 12 mm. size hard broken granite chips	1 cum	2049.40	
8.	Cement concrete (1:2½:5) with 12 mm. size hard broken granite chips	1 cum	1805.60	
9.	Cement concrete (1:3:6) with 12 mm. size hard broken granite chips	1 cum	1644.30	
10.	Grouting aprons and revetments 23Cm. deep with cement concrete (1:4:8) with 2.5 cm. broken granite metal	1 sqm	57.60	
11.	Grouting aprons and revetments 15cm. deep with cement concrete (1:4:8) with 2.5 cm broken granite metal	1 sqm	38.40	
12.	Grouting aprons and revetments 23Cm. deep with concrete broken stone in lime mortar (1:2) with 2.5 cm broken granite metal.	1 sqm	57.40	
13.	Grouting aprons and revetments 15cm. deep with concrete broken stone in lime mortar (1:2) with 2.5cm broken granite metal.	1 sqm	38.30	
14.	Cement plum concrete (1:2:4) with 4 cm. size hard granite metal with 15 per cent plum stones (granite)	1 cum	1671.80	

Sl. No.	Description of Items	Unit	Rate
15.	Cement plum concrete (1:3:6) with 4 cm. size hard granite metal with 15 per cent plum stones (granite)	1 cum	1305.10
16.	Cement plum concrete (1:4:8) with 4 cm size hard granite metal with 15 per cent plum stone (granite)	1 cum	1123.40
17.	2.5 Cm. thick grading concrete (1:2:2) on roof slab with 6 mm size hard broken granite chips on new works.	1 sqm	84.90
18.	4 cm. thick grading concrete (1:2:4) on roof slab with 12mm and down grade size hard broken granite chips for old works.	1 sqm	143.40

Note :

- (i) 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.
- (ii) 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.
- (iii) If stone lime is used in the work add difference in cost of lime to the respective item of works.
- (iv) 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.
- (v) 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.
- (vi) 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.
- (vii) 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.
- (viii) 10 per cent excess on the above rates will be allowed on the works bring executed in jail premises.

VIII. R.C.C. WORKS

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
1.	Cement concrete (1:2:4) with 12mm.size broken hard granite chips for R.C.C. works including hoisting and laying (To be used for minor repair work only).	1 cum	2049.40	
2.	Cement concrete (1:1½:3) with 12mm.size broken hard granite chips for R.C.C. works including hoisting and laying(To be used for minor repair work only).	1 cum	2447.00	
3.	R.C.C. work of M-15 grade with 20mm & down grade size black hard granite (crusher broken) chips including hoisting and laying.	1 cum	1978.80	
4.	R.C.C. work of M-20 grade with 20mm & down grade size black hard granite (crusher broken) chips including hoisting and laying.	1 cum	2231.30	
5.	R.C.C. work of M-25 grade with 20mm & down grade size black hard granite (crusher broken) chips including hoisting and laying.	1 cum	2441.40	
6.	R.C.C. work of M-30 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying	1 cum	2453.90	
7.	R.C.C. work of M-35 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying	1 cum	2511.40	
8.	R.C.C. work of M-40 grade with 20mm and down grade black hard granite (crusher broken) stone chips including hoisting and laying	1 cum	2628.40	
9.	(A) Supplying ,fitting and placing uncoated HYSD bar reinforcement complete as per drawing and technical specification.	1 Qtl.	3442.30	
(B)	Extra for welding higher diameter rods	Each cm	5.00	
10.	Rigid and smooth centering and shuttering for R.C.C. works including false work and dismantling them after casting including cost of materials complete in ground floor.			

Sl. No.	Description of Items		Unit	Rate	
1	2		3	4	
				Rs.	P.
	(i)	R.C.C. Floor roof slabs, landings, balconies, projecting sun-shades and chajjas upto 4.3m.height	1 sqm	175.70	
	ii)(a)	For each additional height of 0.3m over initial height of 4.3M.in ground floor and extra upto a height of 5.5m.	1 sqm	5.00	
	(b)	For each additional height of 0.3m and extra beyond 5.5m	1 sqm	8.00	
	(iii)	R.C.C. stairs excluding landing but including railing	1 sqm	178.10	
	(iv)	R.C.C. foundation and plinth band, footings, bases of columns, mass concrete, precast slabs etc.	1 sqm	55.30	
	(v)	R.C.C. beams, columns, girders and bressmers etc.	1 sqm	226.70	
	(vi)	R.C.C. lintels	1 sqm	125.50	
	(vii)	R.C.C. walls and fins including attached pilastes.	1 sqm	193.80	
	(viii)	Double stage centering & shuttering for roof slabs, balconies and projections above 3.60m and upto 7.20 m height.	1 sqm	366.70	
	(ix)	Triple stage centering & shuttering for roof slab, balconies and projection above 7.20m and upto 10.80m height.	1 sqm	565.30	
	(x)	Centering & shuttering for shell roof			
		(1) Upto 5.50m height	1 sqm	265.20	
		(2) for each additional height of 0.30m over 5.50m and upto 7.50m height.	1 sqm	7.70	
	(xi)	Centering & shuttering for sloped roof upto 3.60m height	1 sqm	203.00	
	(xii)	R.C.C. works in slabs for culverts and bridges upto 8m span			

Sl. No.	Description of Items		Unit	Rate	
1	2		3	4	
				Rs.	P.
		(a) Upto 4m height	1 sqm	210.80	
		(b) Above 4m and upto 8m height	1 sqm	263.50	
		(c) Above 8m. and upto 13m height	1 sqm	368.90	
	(xiii)	(a) R.C.C. beams for bridges upto 15m span and height upto 5m	1 sqm	283.40	
		(b) R.C.C. beams for bridges upto 15m span and height above 5m and upto 8m.	1 sqm	340.10	
		(c) R.C.C. beams for bridges upto 15m span and height above 8m and upto 13m	1sqm	425.10	
	(xiv)	(a) R.C.C. beams for bridges above 15m span and height upto 5m height	1 sqm	425.10	
		(b) R.C.C. beams for bridges above 15m span and height upto 8m height	1 sqm	510.10	
		(c) R.C.C. beams for bridges above 15m span and height upto 13m.height	1 sqm	561.10	
	(xv)	(a) R.C.C.slabs for culverts and bridges above 8m span and upto 5m height	1 sqm	274.00	
		(b) R.C.C.slabs for culverts and bridges above 8m span above 5m. height upto 8m height	1 sqm	342.50	
		(c) R.C.C.slabs for culverts and bridges above 8m span and above 8m. height upto 13m height	1 sqm	479.50	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
11.	Rigid and smooth centering and shuttering at all heights of trough and road slab of aqueduct bridges, deck slab and soffit slabs using required nos of pylons for vertical supports of scaffolding centering and shuttering with joists, N.G. rails and channels and shuttering plates including welding, bolting, cost, conveyance, royalty and all other taxes of all materials and cost of scaffolding gangway etc. including cost of conveyance of dismantling and disposing debris clear of work site complete to receive reinforcement grills and concrete as per requirement as directed by Engineer-in-Charge	1 sqm	441.70	
12.	Rigid and smooth centering and shuttering hoisting and placing in position of steel girders, trusses, centering and shuttering with steel shutter plates, N.G. rails, wooden shuttering with steel shutter plates, N.G., rails, wooden shuttering plates welding etc. complete for R.C.C. work in bridge work including cost, conveyance, royalty of all materials and dismantling them after casting and disposing of the useful material away from site complete in all respect as per direction of the Engineer-in-Charge.	1 sqm	680.00	
13.	Rigid and smooth centering and shuttering for R.C.C. work in pergola including false work & dismantling them after casting including cost of materials complete in ground floor.	1sqm	915.90	
14.	Closed deep chipping and cleaning to R.C.C. surface for receiving cement plaster.	1 sqm	3.10	
15.	Rigid and smooth Steel centering and shuttering at all heights of bridge work such as well curb, well steining, well cap, pier and abutment shaft, pier and abutment cap, wing wall, tie beam, road kerb and dirt wall using required nos of vertical and horizontal supports of scaffolding with joists, N.G. rails and channels and steel shuttering plates including welding, bolting, cost, conveyance, royalty and all other taxes of all materials and cost of scaffolding gangway etc. including cost of conveyance of dismantling and disposing debris clear of work site complete to receive reinforcement grills and concrete as per requirement as directed by Engineer-in-Charge	1 sqm	296.80	

Note :

- (i) 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.
- (ii) 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.
- (iii) 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.
- (iv) 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.
- (v) 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.
- (vi) 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.
- (vii) 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.
- (viii) For R.C.C. work in shell roof add 25 per cent extra labour over and above the rate for lifting and laying concrete.
- (ix) 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.
- (x) 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.
- (xi) The under reamed diameter in pile foundation has been assumed as 2.5 times the stem diameter.
- (xii) 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises.

IX. R.B. WORKS

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
1.	Reinforced brick work in roof slab and lintels using 1:2:4 cement concrete with 6mm. Size hard granite chips in joints excluding cost of reinforcement, bending and binding centering and shuttering.	1 Cum	1652.80	
	Note – The analysis is based on average 2.5cm joint filled with cement concrete 1:2:4			
2.	Reinforced brick work in cement mortar 1:3 excluding cost of M.S. rods, centering and shuttering bending and binding.	1 Cum	1613.60	
	Note – The analysis is based on average 2.5cm joint filled with cement concrete 1:3			
3.	Centering and shuttering for R.B. works including false work and dismantling thereof after casting including cost of materials complete	1 sqm	175.70	

Note :

- (i) 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.
- (ii) 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.
- (iii) 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.
- (iv) 10 per cent excess on the above rates to be allowed when the works are being executed inside jail premises.

X. MASONRY BRICK WORK WITH 25CM. BRICKS

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
1.	Brick work with K.B. bricks 25cm. x 12cm. x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:3) in foundation and plinth.	1 Cu.M.	1650.20	
2.	Brick work with K.B. bricks 25cm. x 12cm. x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:4) in foundation and plinth.	1 Cu.M.	1526.40	
3.	Brick work with K.B. bricks 25cm. x 12cm. x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:6) in foundation and plinth.	1 Cu.M.	1403.30	
4.	Brick work with K.B. bricks 25cm. x 12cm. x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:8) in foundation and plinth.	1 Cu.M.	1339.20	
5.	Brick work with K.B. bricks 25cm. x 12cm. x 8cm. size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:12) in foundation and plinth.	1 Cu.M.	1277.30	
6.	Brick work with K.B. bricks 25cm. x 12cm. x 8cm. size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in clay in foundation and plinth.	1 Cu.M.	1070.60	
7.	Brick work with K.B. bricks 25cm. x 12cm. x 8cm. size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in lime mortar (1:2) in foundation and plinth.	1 Cu.M.	1494.10	
8.	Honey comb masonry with K.B. bricks 25cm. x 12cm. x 8cm. size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance ±8 percent in cement mortar (1:4) and plastered with 16mm. thick plaster in C.M. 1:6 including white washing two coats.	1 sqm	349.00	
9.	Wattle and dub walling including 12mm mud plaster on both sides	1 sqm	80.60	
10.	Mud walling	1cum	172.00	

Note :

- | | | | |
|--------|--|-------|-------|
| (i) | For brick masonry in superstructure add extra towards extra labour for scaffolding to the rate in foundation and plinth. | 1 cum | 33.00 |
| (ii) | For brick arch masonry not exceeding 1.5m span add extra for scaffolding and centering in rate of brick work in superstructure. | 1cum | 66.20 |
| (iii) | For brick masonry in well steining add extra towards extra labour for scaffolding and lowering materials to the rate in F & P. | 1 cum | 46.20 |
| (iv) | For brick masonry in item for 1 st floor and subsequent higher floors add 15 percent extra labour over and above the rates of next lower floor. | | |
| (v) | For honey comb brick masonry in 1 st floor and subsequent higher floors add 15 percent extra labour over and above the rates of next lower floor. | | |
| (vi) | For brick masonry with different quality of bricks add or subtract the difference in cost of bricks from respective items of rate. | | |
| (vii) | 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. | | |
| (viii) | 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. | | |
| (ix) | 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. | | |
| (x) | 10 percent excess on the above rates will be allowed in works being executed inside jail premises. | | |

XI. MASONRY STONE WORK

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	R.R. hard granite stone masonry in lime mortar 1:2 in F&P	1Cu.M.	877.90	
2.	R.R.H.G.S. masonry in C.M. 1:5 in F. & P.	1Cu.M.	879.20	
3.	R.R.H.G.S. masonry in C.M. 1:6 in F. & P.	1Cu.M.	820.20	
4.	R.R.H.G.S. masonry in C.M. 1:8 in F. & P.	1Cu.M.	742.50	
5.	R.R.H.G.S. masonry in C.M. 1:4 in F. & P.	1Cu.M.	970.50	
6.	1 st Class C.R.H.G.S. masonry in lime mortar 1:2 in F. & P.	1Cu.M.	1010.30	
7.	1 st Class C.R.H.G.S. masonry in C.M. 1:5 in F. & P.	1Cu.M.	1009.20	
8.	1 st Class C.R.H.G.S. masonry in C.M. 1:4 in F. & P.	1Cu.M.	1073.60	
9.	1 st Class C.R.H.G.S. masonry in C.M. 1:6 in F. & P.	1Cu.M.	966.30	
10.	1 st Class C.R.H.G.S. masonry in C.M. 1:8 in F. & P.	1Cu.M.	912.60	
11.	R.R.H.G.S. masonry in clay or sand or gravel grouted in F. & P.	1Cu.M.	438.30	
12.	Dry stone masonry or rough stone dry masonry for guard wall and retaining walls with hard granite stone.	1Cu.M.	295.50	
13.	Rough stone dry packing in aprons and revetments with H.G. stone 15 Cm. to 30 Cm.	1Cu.M.	266.60	
14.	Removing old revetments and aprons and repacking with old stones.	1Cu.M.	185.50	
15.	Rough stone dry packing in aprons and revetments 30 Cm. and above size with H.G. Stones.	1Cu.M.	287.80	
16.	Laterite stone masonry in C.M. 1:8 in F. & P.	1Cu.M.	1053.00	
17.	L.S. masonry in C.M. 1:6 in F. & P.	1Cu.M.	1106.60	
18.	L.S. masonry in C.M. 1:4 in F. & P.	1Cu.M.	1214.30	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
19.	L.S. masonry in C.M. 1:12 in F.& P.	1Cu.M.	999.70	
20.	L.S. masonry in lime mortar (1:2) in F.& P.	1Cu.M.	1123.30	
21.	L.S. masonry in clay in F & P.	1Cu.M.	868.20	
22.	Laterite block edge packing (Labour only)	1Cu.M.	147.10	
23.	Laterite block packing flat (Labour only)	1Cu.M.	98.70	
24.	Collecting scattered rubbles and stacking within 50M. lead	1Cu.M.	32.70	
25.	Gravel backing to revetments	1Cu.M.	113.60	
26.	Metal spall backing in the rear of well steining or weep holes of abutments and deep drains.	1Cu.M.	395.30	

Notes :

1. For stone masonry in superstructure add extra labour for scaffolding to the rates of foundation and plinth. Per cum Rs. 41.90
2. For stone masonry in well steining add extra towards extra labour and scaffolding to the rate in F & P. Per cum Rs. 71.70
3. For dry stone masonry or rough stone dry masonry for well steining add extra towards extra labour and scaffolding to the rate of dry stone masonry or retaining wall (Item 12). Per 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.

XII. FLOORING

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	10 Cm. Moorum Flooring (Gravel)	1 Sq.M.	17.10	
2.	2.5 Cm. artificial stone flooring with cement concrete (1:2:4) including punning using 12mm. Size hand broken granite chips.	1 Sq.M	79.00	
3.	2.5 Cm. artificial stone flooring with cement concrete (1:2:4) with washed gravel including punning.	1 Sq.M	68.70	
4.	2.5 Cm. artificial stone flooring with cement concrete (1:3:5) using 12mm. Size hard broken granite chips including punning.	1 Sq.M	71.60	
5.	2.5 Cm. artificial stone flooring with cement concrete (1:3:6) using 12mm. Size hand broken granite chips including punning.	1 Sq.M	67.40	
6.	2.5 Cm. artificial stone flooring with cement concrete (1:3:6) with washed gravel including punning.	1 Sq.M	57.10	
7.	Flooring with 10 cm. thick concrete with broken stone hard granite in lime mortar and rendered smooth with 9kgs. of portland cement.	1 Sq.M	111.00	
8.	Flooring with dry stone jelly 10 cm. sand grouted and finishing the top with 12mm. thick cement plaster (1:3)	1 Sq.M	90.80	
9.	10 cm. thick dry K.B. khoa well watered and to receive A.S. flooring	1 Sq.M	63.90	
10.	10 cm. dry epidorite metal or any other hard metal of 4 cm. size well watered and rammed.	1 Sq.M	57.80	
11.	Brick on edge flooring over one brick flat set in cement mortar 1:8.	1 Sq.M	293.80	
12.	35mm. thick marble chips flooring of dark, light or medium shade rubbed and polished to granolithic finish, under layer 25mm. thick C.C. (1:2:4) with 12mm. size black hard granite chips and top layer 10mm. thick with marble chips of sizes from 4 to 7mm. nominal size laid in cement marble powder mix 3:1 (3 cement 1 marble powder by weight) in	1 Sq.M	275.30	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	prop. 4:7 (4 cement marble powder mix : 7 marble chips by volume)			
13.	31mm. thick marble chips flooring of dark, light or medium shade rubbed and polished to granolithic finish, under layer 25mm. thick C.C. (1:2:4) and top layer 6mm. thick with marble chips of sizes form 4 to 7mm. nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder by weight) in prop. 4:7 (4 cement marble powder mix : 7 marble chips by volume)	1 Sq.M	240.20	
14.	18mm. thick marble chips skirting to dados with dark, light or medium shade rubbed and polished to granolithic finish, under layer 12mm. thick cement plaster (1:3) and top layer 6mm. thick with marble chips of sizes form 4 to 7mm. nominal size laid in cement marble powder mix 3:1 (3 cement : 1 marble powder by weight) in prop. 4:7 (4 cement marble powder mix : 7 marble chips by volume)	1 Sq.M	215.50	
15.	Labour charges for fixing glass/aluminium strip in joints of marble chips flooring.	1 metre	3.70	
16.	Fixing tiles in floors, treads on steps and landing on 25mm. thick bed of cement mortar 1:1 (1 cement : 1 sand) joined with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete excluding cost of precast tile.	1 sqm	184.20	
17.	Fixing tiles in dado, skirting and rises of steps on 12mm. thick cement plaster 1:3 (1 cement : 3 sand) joined with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete excluding cost of precast tile.	1 sqm	164.90	
18.	Extra labour for laying tile flooring on staircase treads not exceeding 30 cms. in width including cost of forming nosing, etc.	1 sqm	7.10	
19.	Extra labour for making chequers of approved pattern on cement concrete, floors steps, landing, pavements or over plastered surface.	1 sqm	5.60	
20.	2.5cm. damp proof course with C.C. (1:2:4) using 12mm. size hand broken granite chips.	1 sqm	72.60	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
21.	32mm. thick red oxide flooring under layers of 25mm. thick C.C. (1:2:4) with 12mm. size granite chips and top layer of 6mm. thick plaster cement red oxide mix using 3.5 Kgs. of red oxide per 50 Kgs. of cement 1:3 finished with a floating coat of cement red oxide mix of same proportion.	1 sqm	162.60	

Notes :

- (i) 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.
- (ii) 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.
- (iii) 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.
- (iv) 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.
- (v) 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.
- (vi) Fixing tiles in item No. 16, 17 & 18 includes marble, kota, khandolite, granite, kadappa, dholpuri stone chequered tiles, glazed tiles & terrazzo tiles, etc.
- (vii) 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.
- (viii) 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.
- (ix) 10 percent excess on the above rates will be allowed in the works being executed inside jail premises.

XIII. PAINTING

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Priming 1 coat with any approved primer (labour only)	1Sq.M.	8.40	
2.	Painting 1 coat with any approved paint on new wood work (labour only)	1Sq.M.	13.10	
3.	Painting 2 coats with any approved paint on new wood work (labour only)	1Sq.M.	20.10	
4.	Painting 1 coat with any approved paint on old wood work (labour only)	1Sq.M.	13.10	
5.	Painting 2 coats with any approved paint on old wood work (labour only)	1Sq.M.	20.10	
6.	Coaltaring 1 coat (labour only)	1Sq.M	6.60	
7.	Coaltaring 2 coats (labour only)	1Sq.M	9.90	
8.	Wood oiling 1 coat with tinge of paint (labour only)	1Sq.M.	7.10	
9.	Wood oiling 2 coats with tinge of paint (labour only)	1Sq.M	12.30	
10.	French polishing to wood work 1 coat (labour only)	1Sq.M.	11.90	
11.	French polishing to wood work 2 coats (labour only)	1Sq.M	17.50	
12.	Varnishing 1 coat to wood work (labour only)	1Sq.M	4.70	
13.	Varnishing 2 coats to wood work (labour only)	1Sq.M	9.10	
14.	One coat of priming for bridges including scaffolding above 4.60 metres to any height (labour only)	1Sq.M	13.00	
15.	Painting one coat over old girder and built-up girders of bridges including scaffolding above 4.60 metres to any height (labour only)	1Sq.M	18.90	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
16.	Painting second coat over old girder and built-up girders of bridges including scaffolding above 4.60 metres to any height (labour only)	1Sq.M	14.20	
17.	Finishing walls with water proofing cement paint of approved shade on old work one coat to give an even shade excluding cost of cement paint.	1Sq.M	2.80	
18.	Finishing walls with water proofing cement paint of approved shade on new work two coats to give an even shade excluding cost of cement paint.	1Sq.M	4.10	
19.	Wall painting 1 coat with plastic emulsion paint of approved shade on old work to give an even shade excluding cost of paint	1Sq.M	6.10	
20.	Wall painting 2 coats with plastic emulsion paint of approved shade on new work to give an even shade excluding cost of paint	1Sq.M	9.10	
21.	Distempering one coat to walls distemper of approved shade on old work to give an even shade excluding cost of distemper.	1Sq.M	5.60	
22.	Distempering two coats to walls with distemper of approved shade on new work to give an even shade excluding cost of distemper.	1Sq.M	8.80	
23.	Finishing plastered surfaces of walls with plaster of paris and making smooth to receive painting (Labour only)	1Sq.M	7.70	

Note :

A. Painting of shutters including chokats

- (i) Batten and panel – Take $2 \frac{1}{4}$ times the opening
- (ii) Glazed- Take $1 \frac{1}{2}$ times the opening
- (iii) $\frac{2}{3}$ panelled and $\frac{1}{3}$ glazed – Take 2 times the opening
- (iv) $\frac{1}{3}$ panelled and $\frac{2}{3}$ glazed- Take $1 \frac{3}{4}$ times the opening
- (v) $\frac{1}{3}$ panelled and glazed $\frac{2}{3}$ venetian – take $2 \frac{3}{4}$ times the opening.
- (vi) For window gratings – take $\frac{1}{2}$ times the opening
- (vii) Venetian & Rolling shutters – Take 3 times the opening.

B. Paints should be used as follows per 10M².

(a)	Primer 1 Coat -		
	Wood	....	0.75lt
	Steel	....	0.54lt
	Plastered Surface	....	0.84lt
(b)	Painting Wood & Iron works		
	1 Coat	....	0.75lt
	2 Coats	....	1.25lt
(c)	Coaltaring		
	1 coat	....	1.80lt
	2 coats	....	2.80lt
(d)	Distemper		
	1 coat	....	1.66 kg
	2 coats	....	2.50 kg
(e)	Plastic paint		
	1 coat	....	0.75lt
	2 coats	....	1.25lt
(f)	Cement Paint		
	1 coat	....	1.66 kg
	2 coats	....	2.50 kg

Notes :

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.

XIV. PLASTERING

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	12mm. thick lime plaster (1:2) on brick work	1Sq.M.	36.40	
2.	20mm. thick lime plaster on stone work (1:2)	1Sq.M.	52.30	
3.	12mm. thick cement plaster (1:3) for brick work	1Sq.M..	46.10	
4.	12mm. thick cement plaster (1:6) for brick work	1Sq.M.	32.70	
5.	12mm. thick cement plaster (1:8) for brick work	1Sq.M.	29.50	
6.	12mm. thick cement plaster (1:4) over brick work with cement punning for skirting.	1Sq.M.	43.70	
7.	12mm. thick cement plaster (1:4) over brick work including cement punning and bitumen painting over top of wall	1Sq.M..	50.30	
8.	20mm. thick cement plaster (1:6) for stone work	1Sq.M.	49.80	
9.	20mm. thick cement plaster (1:8) for stone work	1Sq.M.	44.40	
10.	Lime flush pointing to stone masonry (1:1½)	1Sq.M.	31.70	
11.	Lime flush pointing to brick masonry (1:1½)	1Sq.M.	30.50	
12.	Cement flush pointing to stone masonry (1:3)	1Sq.M.	35.70	
13.	Cement flush pointing to brick masonry (1:3)	1Sq.M.	31.70	
14.	16mm thick cement plaster (1:6) over brick or stone masonry	1Sq.M.	44.40	
15.	16mm thick cement plaster (1:8) over brick or stone masonry	1Sq.M.	40.60	
16.	12mm thick cement plaster (1:4) over brick work	1Sq.M.	39.70	
17.	20mm thick cement plaster (1:4)	1Sq.M.	56.30	
18.	12mm thick sand and mud plaster	1Sq.M.	13.20	
19.	Cement flush pointing to tile ceiling (1:3) size of tiles 30cm. x 15cm.	1Sq.M.	21.40	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
20.	Cement rule pointing including raking out joints (1:3) over brick work.	1Sq.M.	34.30	
21.	Cement rule pointing (1:3) including raking out joints over stone work (labour only)	1Sq.M.	22.10	
22.	Pebble dashed plaster with black hard granite chips 12mm size & 12mm thick cement plaster (1:4)	1Sq.M.	67.30	
23.	Rusticated (Gravel planted) plaster with cement 12mm thick (1:4) and washed gravel.	1Sq.M.	55.20	
24.	Lime rule pointing over brick work with admixture of surki	1Sq.M.	31.50	
25.	2.5cm thick surki beaten plaster (1:2)	1Sq.M.	64.10	
26.	6mm thick cement plaster (1:4) finished smooth	1Sq.M.	29.20	
27.	6mm thick cement plaster (1:4) to R.C.C. surfaces finished smooth including closed deep chipping & slurry treatment.	1Sq.M.	36.00	
28.	16mm thick cement plaster (1:6) over brick or stone masonry including punning	1Sq.M.	49.80	
29.	Cement punning	1Sq.M.	8.40	
30.	White washing one coat with shell lime	1Sq.M.	2.80	
31.	White washing one coat with stone lime	1Sq.M.	1.40	
32.	White washing two coats with shell lime	1Sq.M.	4.20	
33.	White washing two coats with stone lime	1Sq.M.	1.90	
34.	White washing three coats with shell lime	1Sq.M.	5.60	
35.	White washing three coats with stone lime	1Sq.M.	2.70	
36.	Colour washing one coat with shell lime and colouring materials	1Sq.M.	3.00	
37.	Colour washing one coat with stone lime and colouring materials.	1Sq.M.	1.60	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
38.	Colour washing two coats with shell lime and colouring materials.	1Sq.M.	4.50	
39.	Colour washing two coats with stone lime and colouring materials.	1Sq.M.	2.30	
40.	Cement washing one coat	1Sq.M.	5.40	
41.	Cement washing two coats	1Sq.M.	8.00	
42.	Mud and cowdung leaping	1Sq.M.	2.20	
43.	Plastering inside the well steining (Labour only)	1Sq.M.	15.10	

Note :

- (i) 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.
- (ii) 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.
- (iii) For repair items of white washing and colour washing inside add 2 per cent extra labour to respective items of next lower floor.
- (iv) For repair items of plastering add 2 per cent extra labour to the respective items of next lower floor.
- (v) 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.
- (vi) 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.
- (vii) 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.
- (viii) 10 per cent excess on the above rates will be allowed in the works being executed inside jail premises.

XV. ROOFING

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	20cm to 25 cm long single nuria tiled roofing with cement mortar(1:6) borders 23cm x 5 cm at 1.80 M. intervals complete.	1Sq.M.	104.70	
2.	25cm to 30cm long single nuria tiled roofing with cement mortar(1:6) borders 23cm x 5 cm at 1.80M. intervals complete	1Sq.M.	104.10	
3.	20cm to 25cm long double nuria tiled roofing with cement mortar(1:6) borders 23cm x 5 cm at 1.80M. intervals complete	1Sq.M.	174.30	
4.	25cm to 30cm long double nuria tiled roofing with cement mortar(1:6) borders 23cm x 5 cm at 1.80M. intervals complete	1Sq.M.	173.00	
5.	Roofing with pan tiles with cement mortar(1:6) borders 23cm x 5 cm at 1.80M intervals complete	1Sq.M.	128.30	
6.	Roofing with flat & pan tiles cement mortar(1:6) borders 23cm x 5 cm at 1.80M intervals complete	1Sq.M.	201.30	
7.	Roofing with pan tiles over existing G.C.I. sheet or A.C. sheet	1Sq..M.	84.40	
8.	Forming with cement mortar(1:6) border 23cm x 5cm at 1.80 meter intervals.	1Sq.M.	27.50	
9.	Shifting pan tiles (Labour only)	1Sq.M.	15.70	
10.	Re-roofing and retiling with old flat and pan tiles over G.C.I. or asbestos sheets on reapers (Labour only)	1Sq.M.	30.10	
11.	Re-roofing with old flat and pan tiles including cost of cement mortar(1:6) borders.	1Sq..M.	90.80	
12.	Renewing eaves of nuria tile roof with old tiles set in cement mortar(1:6)	1 R.M	22.80	
13.	Renewing caves of nuria tile roof with new tiles 20cm to 25cm long set in cement mortar(1:6).	1 R.M	32.20	
14.	Renewing eaves of nuria tile roof with new tiles 25cm to 30cm long set in cement mortar(1:6) .	1 R.M	32.10	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
15.	Renewing mortar band with new tiles 25cm to 30cm long set in cement mortar(1:6)	1 R.M	21.60	
16.	Renewing ridges of nuria tiled roofs with new ridge tiles set in mud mortar and top pointed with cement mortar(1:6).	1 R.M	27.70	
17.	25cm to 30cm long single layer of nuria tile over a layer of 30cm x 30cm x 2.5cm of flat tiles	1 Sqm	102.40	
18.	25cm to 30cm long double tiles of nuria tile over a layer of 30cm x 30cm x 2.5cm of flat tiles	1 Sqm	185.40	
19.	Shifting or relaying nuria tile in single nuria tiles roof (Labour only).	1 Sqm	11.10	
20.	Shifting or relaying nuria tile in double nuria tiled roof (Labour only)	1 Sqm	20.60	
21.	8cm beaten lime terracing for roof with hard stone other than granite broken to 2.5cm	1 Sqm	165.90	
22.	8cm beaten lime terracing for roof with washed gravel	1 Sqm	173.90	
23.	10cm beaten lime terracing for roof with hard broken stone other than granite broken to 2.5cm	1 Sqm	205.60	
24.	10cm beaten lime terracing for roof with washed gravel	1 Sqm	188.40	
25.	13cm beaten lime terracing for roof with hard stone other than granite broken to 2.50Cm.	1 Sqm	259.00	
26.	13cm beaten lime terracing for roof with washed gravel	1 Sqm	238.30	
27.	8 cm thick beaten terrace in lime with brick khoa and ghooting lime	1 Sqm	156.50	
28.	10 cm thick beaten terrace in lime with brick khoa and ghooting lime	1 Sqm	212.70	
29.	13 cm thick beaten terrace in lime with brick khoa and ghooting lime	1 Sqm	247.50	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
30.	Laying two layers of earthen tiles 2.50cm thick 30cm x 30cm and 30 cm x 15cm with 2.50 cm. cement mortar in between to receive terracing	1 Sqm	163.70	
31.	Picking out old lime terracing on roof and clearing the debris for laying half terracing	1 Sqm	24.40	
32.	Labour for fixing G.C.I. sheet in roof including drilling holes in wind tiles fixing on ridges valleys wind ties, etc. complete but excluding cost of fittings	1 Sqm	28.60	
33.	Labour for fixing Big six or Trafford A.C. sheet in roof including fixing of ridges wind ties, etc. complete but excluding cost of fittings including drilling holes in wind ties.	1 Sqm	30.10	
34.	Labour for fixing and fitting asbestos sheet ridges or valleys (double)	1 R.M	23.10	
35.	Labour for fixing corrugated iron sheet in walling including cost of nuts and bolts, etc. but excluding cost of sheets.	1 Sqm	31.80	
36.	Fixing asbestos sheets in wall excluding cost of A.C. sheet but including cost of bolts and nuts (Labour only)	1 Sqm	33.10	
37.	New bamboo frames made of 2.5 cm to 4 cm bamboo for nuria tiles roofing for single and double layers.	1 Sqm	156.90	
38.	Non-sal wood reapers fixed on rafters with reaper nails at 10cm centers including coaltering the top of the reapers for receiving pan tiles roof.	1 Sqm	157.50	
39.	Non-sal wood reapers fixed on rafters with reaper nails at 15.0cm centers including coaltering the top of the reapers for receiving flat and pan tiles roof.	1 Sqm	111.80	
40.	Best thatched roofing 22.5 cm in two layers 7.5cm bottom layer and 15cm top layer including split bamboo jaffry on top.	1 Sqm	146.80	
41.	Split bamboo jaffry fitted and fixed on thatched roof.	1 Sqm	19.30	
42.	Best thatched roofing 15cm thick including split bamboo jaffry on top.	1 Sqm	104.20	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
43.	Best thatched roofing 7.5cm thick including split bamboo jaffry on top.	1 Sqm	64.70	
44.	First class strong bamboo framing 23cm apart for 22.5 cm thick thatching	1 Sqm	129.00	
45.	Bamboo mat over bamboo frame fitted and fixed	1 Sqm	115.20	
46.	Roofing with 2 layers of flat tiles 30cm x 15cm x 2.5 cm set in cement mortar (1:3) with 2.5cm thick cement mortar (1:6) in between and top cement grouted (Cuttack pattern) including cost of cement	1 Sqm	144.60	
47.	15cm thick old and new straw thatched including top jaffry after removal of old thatch as per necessity.	1 Sqm	78.50	
48.	2 nd class country bamboos framing for 15cm thatching	1 Sqm	74.30	
49.	Bamboo mat ceiling inclusive of bamboo frame fitting and fixing etc. complete	1 Sqm	137.80	
50.	6mm thick A.C. sheet flat and fixed complete including cost of A.C. sheets but including batten 5cm x 3cm x 1cm.	1 Sqm	64.10	

Note :

- (i) 10 per cent excess on the above rate will be allowed in the works being executed inside jail premises.

XVI. WOOD WORK

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Dressed seasoned sal wood work framed and fixed (wrought and put up) in burgahs, rafters and posts	1Cum.	30212.80	
2.	Dressed seasoned sal wood work framed and fixed (Wrought and put up) in trusses purlins frames of doors, windows ventilators and beams	1Cum.	33814.00	
3.	32mm thick piasal wood or local teak wood paneled shutters moulded panels complete with all labour iron fitting and wooden hinged cleats, etc. fitted and fixed in position complete in all respect, but excluding the cost of iron fittings.	1 Sqm	1994.60	
4.	32mm thick piasal wood or local teak wood fully glazed shutters complete with iron fittings and wooden hinged cleats, etc. fixed in position including all labour but excluding the cost of glass pans and iron fittings.	1 Sqm	1439.90	
5.	25 mm thick piasal wood or local teak wood ledged,braced and planked 25 mm thick ledges and braces and 25 mm thick plank shutters complete with iron fittings and wooden hinged cleats, etc. fixed in position including all labour but excluding the cost of iron fittings.	1 Sqm	1891.90	
6.	25mm thick piasal wood or local teak wood false panel shutters complete with iron fittings and wooden hinged cleats, etc. fixed in position including all labour charges but excluding the cost of fittings.	1 Sqm	1536.10	
7.	19mm thick piasal wood ledged braced and planked 19mm thick ledges and braces and 19mm plank shutters complete with iron fittings and wooden hinged cleats, etc. fitted and fixed in position including all labour charges but excluding the cost of iron fittings.	1 Sqm	1329.50	
8.	38mm thick piasal panel shutters 38mm style and 22mm to 25mm thick panel planks complete with iron fittings and wooden hinged cleats, etc. fixed in position for doors and windows including all labour charges but excluding the cost of iron fittings.	1 Sqm	2289.80	
9.	25mm thick piasal panel shutters 25mm style and 12mm thick panel planks complete with iron fittings	1 Sqm	1643.80	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	and wooden hinged cleats, etc. including all labour charges but excluding the cost of iron fittings.			
10.	25mm thick piasal fully glazed shutter 25mm style complete with iron fittings and wooden hinged cleats, etc. fitted and fixed in position for doors and windows including all labour charges but excluding the cost of glass panes and iron fittings.	1 Sqm	1200.50	
11.	38mm thick piasal fully glazed shutter 38mm style complete with iron fittings and wooden hinged cleats, etc. fitted and fixed in position for doors and windows including all labour charges but excluding the cost of glass panes and iron fittings.	1 Sqm	1644.90	
12.	38mm thick sal wood planks fitted and fixed for shelves	1 Sqm	1087.80	
13.	25mm thick sal wood frame and 19mm thick planked door shutters complete with iron fittings and wooden hinged cleats including all labour charges but excluding the cost of iron fittings.	1 Sqm	995.30	
14.	Dressed sal wood work in beams above 15cm size and above 5m length.	1 cum	31797.50	
15.	Sal wood work squared and rough dressed fitted and fixed complete	1 cum	29097.90	
16.	10cm dia sal bullah upto 5.5m long fitted and fixed complete	1 RM	77.40	
17.	15cm to 20cm dia sal bullah fitted and fixed complete.	1 RM	85.30	
18.	Sal bullahs above 200 mm and upto 250mm mean dia upto 2.75 long fitted and fixed complete	1 cum	7296.40	
19.	Sal bullahs above 200mm and upto 250mm mean dia above 2.75m long and upto 4.75m long fitted and fixed complete.	1 cum	8172.60	
20.	75mm to 100mm mean dia non sal bullah fitted and fixed complete	1 RM	41.50	
21.	Nonsal bullah 125mm mean dia fitted and fixed complete	1 RM	58.30	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
22.	Non-sal bullah 150mm to 200mm mean dia fitted and fixed complete	1 RM	71.80	
23.	Labour for fitting and fixing expanded metal or wiremesh for windows, etc. including sal wood beading with cost of nails, screws, beads, etc. complete but excluding cost of expanded metal or wiremesh.	1 sqm	157.20	

Note :

- (i) 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.
- (ii) The diameter of the bullahs to be measured above 2m. high from the bottom.
- (iii) The standard fittings for doors and windows should be as per the I.S.I. specification.
- (iv) 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises.

XVII. ROAD WORK

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Picking up hard stone metal surface to a depth of 5cm. including screening useful materials and removing rubbish and replacing usable road metal to camber.	100Sqm	331.20	
2.	Scarifying old graveled surface before consolidation of new gravel	100Sqm	46.50	
3.	Sectioning old graveled surface to proper camber	100Sqm	66.20	
4.	Flank dressing to proper camber	100Sqm	79.50	
5.	Labour for spreading metal to proper camber and consolidation with H.R.R. including watering and turf edging but excluding cost and conveyance of metal and filler materials	1 Cum	108.80	
6.	Labour for admixing sand and moorum etc. complete including cost of all labours and hire charges of T & P materials required for work as per specification and direction of Engineer-in- Charge but excluding cost and conveyance of sand and moorum	1 Cum	15.40	
7.	Labour for spreading moorum and consolidation with HRR including watering but excluding cost and conveyance of moorum	1 Cum	65.30	
8.	Labour for laying sub-base in layers not exceeding 100mm watering and compaction to the required density in O.M.C with PRR but excluding cost and conveyance of sub base materials.	1 Cum	60.10	
9.	Labour for spreading metal and packing the voids with small stones and hand packing the same to proper camber including conveying spreading of filler materials and filling the interstices by spreading the same over the surface, watering and consolidation with PRR including hire and running charges of PRR complete but excluding cost and conveyance of metal and filler materials (To be used for minor repair works only)	1 Cum	144.50	
10.	Labour for soling road surface with soling stones including filling the interstices with earth and rolling with hand road roller but excluding cost and conveyance of soling stones.	1 Cum	78.20	
11.	Labour for spreading metal for patch or pot hole repairs and consolidation with H.R.R. or rammers gravelling and sand binding, etc. complete but excluding cost and conveyance of metal, moorum and sand	1 Cum	146.90	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
12.	Blinding road surface with gravel 6mm thick (labour only)	100 Sqm	16.60	
13.	Blinding road surface with sand 6mm thick (labour only)	100 Sqm	19.90	
14.	Earth topping on metalled surface 12mm thick (labour only)	100 Sqm	33.10	
15.	Conveyance of hand road roller	1 Ton/km	19.10	
16.	Removing soling of old road surface and stacking the available good and useful stones within 50 meters clear of the work.	1 Cum	43.50	
17.	Cleaning the existing granular base surface including removal of binding materials and other foreign materials with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment.	1 Sqm	2.60	
18.	Cleaning the existing blacktopped surface with removal of foreign materials with brooms or soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment.	1 Sqm	0.60	
19.	Labour for applying primer coat / tack coat	1 Sqm	1.30	
20.	Labour for surface dressing with 12Kg. penetration grade of bitumen and 0.15 cum of 19mm nominal size chips per 10 sqm and rolling with PRR including hire and running charges of PRR but excluding cost and conveyance of chips and bitumen (To be used for minor repair works only)	1 Sqm	8.80	
21.	Labour for laying 20mm thick premix carpet using 0.27cum of 13.2mm to 5.6mm crusher stone chipping and 14.60kg. penetration grade of bitumen for 10sqm including hand packing to proper camber and consolidation with PRR inclusive of hire and running charges of PRR , bitumen mixtures, tar boilers and all other T & P articles but excluding cost and conveyance of chips and bitumen complete as per specification and direction of the Engineer-in-charge	1 Sqm	15.10	
22.	Labour for laying 6mm thick precoated seal coat Type-B using 0.06 cum of 6.7mm size chips as per sieve analysis and 6.8Kg of bitumen per 10sqm.including hire and running charges of PRR, bitumen mixture, tar boiler etc but excluding cost and conveyance of chips and bitumen	1 Sqm	7.40	
23.	Spreading and consolidation 10 Cm thick laterite road metal.	1 Cum	92.50	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
24.	Picking laterite stone metal surface to 3 cm depth and removing rubbish.	100 sqm	165.70	
25.	K.B. Bricks 25cm size having crushing strength between 75Kgs. to 99Kgs. per cm ² pitching on end including filling the interstices with sand or sandy soil.	1 sqm	275.50	
26.	K.B. Bricks 25cm. size having crushing strength between 75Kgs. to 99Kgs. per cm ² pitching on edge including filling the interstices with sand or sandy soil.	1 sqm	141.00	
27.	Labour for scraping cleaning the road surface applying tack coat using 3.0Kg of bitumen for 10 Sqm and laying 75mm thick built up spray grouting in two layers 37.5mm thick each layer using 0.50cum of 25mm to 40mm size hard granite metal and 15.00Kg penetration grade of bitumen for 10 Sqm in each layer with 0.13cum of 12mm size hard granite chips as key stone for 10 Sqm spreading over and laying including heating pouring and spreading over and spreading bitumen metal and chips and rolling with PRR including hire and running charges of PRR and all other machineries but excluding cost and conveyance of bitumen, metal and chips complete as per specification and direction of Engineer-in-Charge	1 Sqm	42.70	
28.	Labour for scraping cleaning the road surface applying tack coat using 3.0Kg of bitumen for 10 Sqm and laying 37,5mm thick built up spray grouting in one layer using 0.45cum of 25mm to 40mm size hard granite metal and 12.00Kg penetration grade of bitumen for 10 Sqm with 0.12cum of 12mm size hard granite chips as key stone for 10 Sqm spreading over and laying including heating pouring and spreading over and spreading bitumen metal and chips and rolling with PRR including hire and running charges of PRR and all other machineries but excluding cost and conveyance of bitumen, metal and chips complete as per specification and direction of Engineer-in-Charge (To be used for minor repair works only)	1 Sqm	26.40	
29.	Rolling and compacting to sub grade or formation loosening by cutting ordinary earth for 0.15 Mtr. depth including watering and rolling by PRR as per specification and direction of Engineer-in Charge	1 Cum	43.90	
	Note:- Analysis of rates has been made taking ordinary earth. In case of hard soil or gravelly soil and stoney earth and gravels mixed with stone and boulder corresponding item is to be taken for analysis purpose.			

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
30.	Supplying and fixing 15cm dia 1.00m long guard posts of RCC (1:2:4) using 7.5Kg of steel for each guard post with 12mm size black hard granite stone chips including cost of all reinforcement and materials centering shuttering and watering carrying etc complete. Cost of RCC (1:2:4) with 12mm size chips.	1 No.	157.40	
31.	Labour for laying sub-base in layers not exceeding 225mm watering and compaction to the required density in O.M.C with Vibratory Roller but excluding cost and conveyance of sub base materials	1 Cum	76.80	
32.	Labour for 20mm thick premix carpet using 0.23cum of 13.2mm to 6mm size chips with 12.70kg. of bitumen for 9.29sqm including hire and running charges of PRR etc. complete but excluding cost and conveyance of bitumen and chips	1 Sqm	10.70	
33.	Scarifying the existing granular road surface to a depth of 50 mm and disposal of scarified material within all lifts and leads upto 1000 metres.	1 Sqm	7.40	
34.	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material with in all lifts and lead upto 1000 metres.	1 Sqm	2.80	
35.	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site by mechanical means within a lead of 5kms, spreading, grading to required slope and compacting to meet requirement of table 300-2 & Clause 305 of MoSRT&H Specifications for Road & Bridge works (4th Revision)	1 Cum	88.50	
36.	Loosening of the ground upto a level of 500 mm below the sub-grade level, watered, graded and compacted in layers to meet requirement of table 300-2 for sub-grade construction & Clause 305 of MoSRT&H Specifications for Road & Bridge works (4 th Revision)	1 Cum	30.70	
37.	Loosening, leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in table 300-2 for embankment construction construction & Clause 305 of MoSRT&H Specifications for Road & Bridge works (4th Revision)	1 Cum	20.80	
38.	Construction of aggregate sub surface drain 300 mm x 450 mm with aggregates conforming to table 300-4, excavated material to be utilised in roadway & Clause 309 of	1 Mtr	85.10	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	MoSRT&H Specifications for Road & Bridge works (4th Revision).			
39.	Construction of granular sub-base by providing Close graded Granular sub-base Grading-III material as per table 400-1, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density complete as per Clause 401 of MoSRT&H Specifications for Road & Bridge works (4th Revision)	1 Cum	428.50	
40.	Making 50 mm x 50 mm furrows, 25mm/ 50mm deep, 450 to the center line of the road and at one metre interval in the existing thin bituminous wearing coarse including sweeping and disposal of excavated material within 1000 metres lead			
(i)	25mm deep	1 Sqm	0.90	
(ii)	50mm deep	1 Sqm	1.70	
41.	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding materials to fill up the interstices of coarse aggregate, watering and compacting to the required density as per Clause 404 of MoSRT&H Specifications for Road & Bridge works (4th Revision)			
(i)	Grading-I			
	(A) Using crushable type such as moorum or gravel	1 Cum	616.50	
	(B) Using Type-A 13.2mm stone screenings	1 Cum	718.60	
	(C) Using stone screened dust	1 Cum	620.90	
(ii)	Grading-II			
	(A) Using crushable type such as moorum or gravel	1 Cum	678.70	
	(B) Using Type-A 13.2mm stone screenings	1 Cum	735.30	
	(C) Using Type-B 11.2mm stone screenings	1 Cum	738.10	
	(D) Using stone screened dust	1 Cum	683.30	
(iii)	Grading-III			
	(A) Using crushable type such as moorum or gravel	1 Cum	729.30	
	(B) Using Type-B 11.2mm stone screenings	1 Cum	781.70	
	(C) Using stone screened dust	1 Cum	732.40	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
42.	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Clause 406 of MoSRT&H Specifications for Road & Bridge works(4th Revision)	1 Cum	694.00	
43.	Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means as per Clause 502 of MoSRT&H Specifications for Road & Bridge works (4th Revision).	1 Sqm	11.40	
44.	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom as per Clause 503 of MoSRT&H Specifications for Road & Bridge works (4th Revision)	1 Sqm	4.20	
45.	Providing and laying bituminous macadam with hot mix plant using crushed aggregates of specified grading premixed with bituminous binder of 60/70 penetration grade of bitumen, transported to site, laid over a previously prepared surface with a hydrostatic paver finisher with sensor control to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per Clause 504 of MoSRT&H Specifications for Road & Bridge works (4th Revision)			
	(i) Using Grading-I (40mm nominal size) aggregates	1 Cum	2978.10	
	(ii) Using Grading-II(19mm nominal size) aggregates	1 Cum	3069.90	
46.	Providing and laying dense graded bituminous macadam with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder of 60/70 penetration grade of bitumen, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per Clause 507 of MoSRT&H Specifications for Road & Bridge works (4th Revision)			
	(i) Using Grading-I (40mm nominal size) aggregates	1 Cum	3401.60	
	(ii) Using Grading-II (25mm nominal size) aggregates	1 Cum	3749.50	
47.	Providing and laying semi dense bituminous concrete with batch type hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder of 60/70			

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	penetration grade of bitumen, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per Clause 508 of MoSRT&H Specifications for Road & Bridge works (4th Revision)			
	(i) Using Grading-I (13mm nominal size) aggregates	1 Cum	3736.20	
	(ii) Using Grading-II(10mm nominal size) aggregates	1 Cum	3973.70	
48.	Providing and laying bituminous concrete with batch type hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder of 60/70 penetration grade of bitumen, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per Clause 509 of MoSRT&H Specifications for Road & Bridge works (4th Revision)			
	(i) Using Grading-I (19mm nominal size) aggregates	1 Cum	4115.20	
	(ii) Using Grading-II(13mm nominal size) aggregates	1 Cum	4093.30	
49.	Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder of 60/70 penetration grade of bitumen laid on prepared surface and rolling with 8-10 tonne smooth wheeled steel roller as per Clause 510 of MoSRT&H Specifications for Road & Bridge works (4th Revision)			
	(i) Using 19mm nominal size aggregates	1 Sqm	42.50	
	(ii) Using 13mm nominal size aggregates	1 Sqm	34.20	
50.	Providing, laying and rolling of open - graded premix surfacing of 20mm thickness composed of 13.2 mm to 5.6 mm aggregates with batch type hot mix plant and using 60/70 penetration grade of bitumen to required line, grade and level to serve as wearing course on a previously prepared base including mixing in a suitable plant, laying and rolling with a smooth wheeled roller 8-10 tonne capacity, finished to required level and grades as per Clause 511 of MoSRT&H Specifications for Road & Bridge works (4th Revision)	1 Sqm	63.40	
51.	Providing, laying and rolling of close-graded premix surfacing material of 20mm thickness composed of specified size of stone aggregates using 60/70 penetration grade of bitumen to the required line, grade and level to serve as wearing course on a previously prepared base including mixing in a suitable plant, laying and rolling with a smooth wheeled roller 8-10 tonne capacity and finishing to required level and grade as per Clause 512 of MoSRT&H			

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	Specifications for Road & Bridge works (4th Revision)			
	(i) Using 11.2mm to 0.09mm (Type-A) nominal size aggregates	1 Sqm	75.40	
	(ii) Using 13.2mm to 0.09mm (Type-B) nominal size aggregates	1 Sqm	70.80	
52.	Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type-A seal coat with 0.09cum of 6.7mm size chips and 9.80kg. of 60/70 penetration grade of bitumen for 10sqm as per Clause No. 513 of MoSRT&H specifications for Road & Bridge works (4th Revision)	1 Sqm	30.10	
53.	Providing and laying 6mm thick precoated seal coat Type-B using 0.06cum of 6.7mm size chips and 6.80kg.of 60/70 penetration grade of bitumen for 10sqm with 100-120 TPH HMP by transporting the Hot Mix to work site laying with a Mechanical Paver Finisher to the required grade, level and alignment as per Clause No. 513 of MoSRT&H specifications for Road & Bridge works (4th Revision)	1 Sqm	23.50	
54.	Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of 13.2mm nominal size @ 0.005cum per 10sqm and at an approximate spacing of 10cm center to center in both directions, pressed into surface when the temperature of surfaces is not less than 100 degree centigrade, protruding 1 mm to 4 mm over mastic surface all complete as per Clause 515 of MoSRT&H Specifications for Road & Bridge works (4th Revision)	1 Sqm	588.10	
55.	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per Table 600.1, cement content not to be less than 150kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver and compacting with vibratory roller, finishing and curing as per Clause 601 of MoSRT&H Specifications for Road & Bridge works (4th Revision)	1 Cum	1342.90	
56.	Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and	1 Cum	2911.70	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing and as per Clause 602 of MoSRT&H Specifications for Road & Bridge works (4th Revision)			
57.	Construction of rolled cement concrete base course with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm with minimum, aggregate cement ratio 15:1 and minimum cement content of 200 kg/cum, aggregate gradation to be as per Table 600.4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver, compacting with vibratory roller to achieve the designed flexural strength, finishing and curing as per Clause 603 of MoSRT&H Specifications for Road & Bridge works (4th Revision)	1 Cum	1524.80	

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.

XVIII. SITE CLEARANCE

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all lifts and up to a lead of 1000 metres and earth filling in the depression/pit.			
	(i) Girth from 300 mm to 600 mm	Each No.	63.40	
	(ii) Girth from 600 mm to 900 mm	Each No.	133.30	
	(iii) Girth from 900 mm to 1800 mm	Each No.	228.40	
	(iv) Girth above 1800 mm	Each No.	405.90	
2.	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area	1 Hectare	3168.00	
3.	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness.			
	(i) In area of light jungle	1 Hectare	9758.10	
	(ii) In area of thorny jungle	1 Hectare	13180.20	
4.	Dismantling of Lime Concrete, cement concrete grade M-10 and below including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	105.60	
5.	Dismantling of Cement Concrete Grade M-15 & M-20 including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	118.30	
6.	Dismantling of Prestressed / Reinforced cement concrete grade M-20 & above including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	249.40	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
7.	Dismantling Brick / Tile work in lime mortar including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	80.20	
8.	Dismantling Brick / Tile work in cement mortar including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	92.90	
9.	Dismantling Brick / Tile work in mud mortar including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	75.20	
10.	Dismantling Dry brick pitching or brick soling including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	72.60	
11.	Dismantling Rubble stone masonry in lime mortar including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	85.30	
12.	Dismantling Rubble stone masonry in cement mortar including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	92.90	
13.	Dismantling Rubble Stone Masonry in mud mortar including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	80.20	
14.	Dismantling Dry rubble masonry including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	77.70	
15.	Dismantling stone pitching/ dry stone spalls including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and	1 Cum	75.20	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	lead of 1000 metres			
16.	Dismantling boulders laid in wire crates including opening of crates and stacking dismantled materials including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	80.20	
17.	Dismantling Wood Work wrought framed and fixed in frames of trusses upto a height of 5 m above plinth level including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	139.70	
18.	(Dismantling Steel Work in all types of sections upto a height of 5 m above plinth level including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres excluding cutting of rivet but including dismembering	1 Tonne	293.10	
19.	Dismantling Steel Work in all types of sections upto a height of 5 m above plinth level including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres but excluding cutting of rivet and excluding dismembering	1 Tonne	216.80	
20.	Extra over item No,18 and 19 for cutting rivets.	Each No.	1.90	
21.	Scraping of Bricks dismantled from Brick Work in lime or cement mortar including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1000 Nos	221.80	
22.	Scraping of Bricks dismantled from Brick Work in mud mortar including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1000 Nos	79.20	
23.	Scraping of Stone from dismantled Stone Masonry in lime or cement mortar including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Cum	88.70	
24.	Scraping of Stone from dismantled Stone Masonry in mud mortar including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the	1 Cum	19.00	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	serviceable material with all lifts and lead of 1000 metres			
25.	Scarping Plaster in Lime or Cement Mortar from Brick/ Stone Masonry including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	1 Sqm	3.40	
26.	Removing all type of Hume Pipes and Stacking within a lead of 1000 metres including Earthwork and Dismantling of Masonry Works including T&P, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres			
	(i) Up to 600 mm dia	1 Metre	33.00	
	(ii) Above 600 mm dia up to 900mm dia	1 Metre	44.40	
	(iii) Above 900 mm dia	1 Metre	76.00	
27.	Dismantling of Bituminous courses of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately	1 Cum	191.60	
28.	Dismantling of Granular courses of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately	1 Cum	147.20	
29.	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	1 Cum	727.10	
30.	Dismantling guard rails by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 metres, stacking serviceable materials and unserviceable materials separately.	1 Metre	22.20	
31.	Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 metre	1 Metre	6.00	
32.	Dismantling kerb stone channel by manual means and disposal of dismantled material with all lifts and up to a lead of 1000 metre	1 Metre	9.10	
33.	Dismantling of kilometre stone including cutting of earth,			

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	foundation and disposal of dismantled material with all lifts and lead upto 1000 m and back filling of pit.			
	(i) 5th KM stone	Each No.	85.60	
	(ii) Ordinary KM stone	Each No.	57.10	
	(iii) Hectometre Stone	Each No.	11.40	
34.	Dismantling of barbed wire fencing/ wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and up to a lead of 1000 metres, stacking serviceable material and unserviceable material separately.	1 Metre	9.70	
35.	Dismantling of CI water pipe line 600 mm dia including disposal with all lifts and lead upto 1000 metres and stacking of serviceable material and unserviceable material separately under supervision of concerned department	1 Metre	41.40	
36.	Removal of cement concrete pipe of sewer gutter 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1000 metres and stacking of serviceable and unserviceable material separately but excluding earth excavation and dismantling of masonry works.	1 Metre	79.10	
37.	Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 metres and stacking the serviceable and unserviceable material separately	Each No.	39.50	

Note :

1. For dismantling works, pre-measurement should be recorded before commencement of the work.
2. 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises.

XIX. PILE FOUNDATION

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Single Under Reamed piles foundation with R.C.C. M20 using 12mm size black hard granite (Crusher broken) stone chips including cost of boring, but excluding cost of M.S. Rods/Tor steels and labour charges for cutting, bending and binding of steel.			
(a)	375mm dia and 6.0m long	Each	2827.60	
(i)	For each additional depth of 0.5m beyond the initial depth of 6.0m add extra to the rates	Each	174.80	
(ii)	For each less depth of 0.5m beyond the initial depth of 6.0m deduct from the rates.	Each	174.80	
b)	300mm dia and 6m long	Each	1943.20	
(i)	For each additional depth of 0.5m beyond the initial depth of 6.0m add extra to the rates	Each	128.00	
(ii)	For each less depth of 0.5m beyond the initial depth of 6.0m deduct from the rates	Each	128.00	
c)	250mm dia and 6.0m long	Each	1477.40	
(i)	For each additional depth of 0.5m beyond the initial depth of 6.0m add extra to the rates.	Each	103.40	
(ii)	For each less depth of 0.5m beyond the initial depth of 6.0m deduct from the rates.	Each	103.40	
2.	Double Under Reamed piles foundation with R.C.C. M20 using 12mm size black hard granite (Crusher broken) stone chips including cost of boring, but excluding cost of M.S. Rods/Tor steels and labour charges for cutting, bending and binding of steel.			
(a)	375mm dia and 6.0m long	Each	3534.60	
(i)	For each additional depth of 0.5m beyond the initial depth of 6.0m add extra to the rates	Each	174.80	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
(ii)	For each less depth of 0.5m beyond the initial depth of 6.0m deduct from the rates.	Each	174.80	
b)	300mm dia and 6.0m long	Each	2378.10	
(i)	For each additional depth of 0.5m beyond the initial depth of 6.0m add extra to the rates	Each	128.00	
(ii)	For each less depth of 0.5m beyond the initial depth of 6.0m deduct from the rates	Each	128.00	
c)	250mm dia and 6.0m long	Each	1786.40	
(i)	For each additional depth of 0.5m beyond the initial depth of 6.0m add extra to the rates.	Each	103.40	
(ii)	For each less depth of 0.5m beyond the initial depth of 6.0m deduct from the rates.	Each	103.40	
d)	450mm dia and 6.0m long	Each	5481.00	
(i)	For each additional depth of 0.5 m beyond the initial depth of 6.0 m add extra to the rates.	Each	260.50	
(ii)	For each less depth of 0.5 m beyond the initial depth of 6.0 m deduct extra to the rates.	Each	260.50	

Note :

- (i) 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.
- (ii) 10 per cent excess over and above the rate will be allowed for the work been executed inside jail premises.

XX. DISMANTLING

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Dismantling brick or stone masonry in clay under 3M height including stacking the useful materials for reuse and removing the debris within 50m lead.	1cum.	103.40	
2.	Dismantling brick or stone masonry in clay above 3M height including stacking the useful materials for reuse and removing the debris within 50m lead.	1cum.	108.80	
3.	Dismantling brick or stone masonry in lime or cement mortar under 3M height including stacking the useful materials for reuse and removing the debris within 50m lead.	1cum.	185.00	
4.	Dismantling brick or stone masonry in lime or cement mortar above 3M. height including stacking the useful materials for reuse and removing the debris within 50M. lead.	1cum.	195.90	
5.	Removing thatched roof including tying of useful thatch to small bundle and stacking them carefully for reuse and removing the debris within 50M. lead.	1 Sqm	14.90	
6.	Dismantling roof timber of thatched roof including stacking the useful materials for reuse and removing the debris within 50M lead.	1 Sqm	3.60	
7.	Dismantling pan or single nuria or mangalore tiled roofing (tiles only) including stacking the useful materials for reuse and removing the debris within 50M. lead.	1 Sqm	18.20	
8.	Dismantling double nuria tiled roof (tiles only) including stacking the useful materials for reuse and removing the debris within 50M. lead.	1 Sqm	28.20	
9.	Dismantling flat and pan tiled roof (tiles only) including stacking the useful materials for reuse and removing the debris within 50M. lead.	1 Sqm	34.80	
10.	Dismantling reapers under tiled roof (pan and flat and nurai tile) after careful removal of nails including stacking the useful materials for reuse and removing the debris within 50M lead.	1 Sqm	11.30	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
11.	Dismantling and removing lime concrete flooring 7.5cm to 10 cm thick including stacking the useful materials for reuse and removing the debris within 50 metres lead.	1 Sqm	18.20	
12.	Dismantling and removing 2.5cm thick artificial stone flooring including stacking the useful materials for reuse and removing the debris within 50 metres lead.	1 Sqm	13.20	
13.	Removing old lime or cement plaster from walls including racking out joint 12mm deep and removing the debris within 50 metres lead.	1 Sqm	6.60	
14.	Dismantling flag stone flooring including stacking the useful stone for reuse and removing the debris within 50 metres lead.	1 Sqm	9.90	
15.	Dismantling terrace roof (Chennai or Orissa) including stacking the useful materials for reuse and removing the debris within 50 metres lead.	1 Sqm	42.10	
16.	Dismantling G.C.I. or A.C.I. or A.C. sheet roofing after careful removing the bolts and nuts including stacking the materials for reuse and removing the debris within 50 metres lead	1 Sqm	12.20	
17.	Dismantling wrought and framed timbers in roof frame or floors after careful removal of nails, bolts etc and stacking the same for reuse and removing the debris within 50 metres lead.	1 cum	176.30	
18.	Dismantling and removing doors and windows and ventilators including removals of frames, hinges, fastening and stacking the same for reuse and removing the debris within 50 metres lead.	1 Sqm	54.10	
19.	Dismantling dry or grouted rough stone revetments or aprons or retaining walls and stacking the stones for reuse and removing the debris within 50 metres lead.	1 cum	98.00	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
20.	Dismantling and removing 2.5cm thick grading concrete from roof slab, cleaning the surface, lowering and removing the debris within 50m lead.	1 sqm	14.90	
21.	Removing old grading plaster from roof slab, cleaning the surface, lowering and removing the debris within 50m lead.	1 sqm	10.30	
22.	Removing old tarfelt from roof, cleaning the surface and lowering and removing the debris within 50m lead	1 sqm	11.60	
23.	Dismantling and removing cement concrete including stacking the useful materials for reuse and removing the debris within 50m lead.	1 Cum	98.60	
24.	Dismantling and removing R.C.C columns beams, slab, staircase, landing, lintels including stacking the useful materials for reuse and removing the debris withi 50m lead.	1 Cum	201.60	
25.	Dismantling and removing R.C.C. chajja, shelves, fins and parapet including stacking the useful materials for reuse and removing the debris within 50m lead.	1 sqm	23.20	
26.	Dismantling and removing marble chips flooring including stacking the useful materials for reuse and removing the debris within 50m lead.	1 sqm	14.90	
27.	Dismantling and removing marble chips dados and skirting from walls including racking out joints 12mm deep, stacking the useful materials for reuse removing the debris within 50m. lead	1 sqm	7.30	
28.	Dismantling and removing old tiled flooring including removing the base coarse and stacking the useful materials for reuse and removing the debris away from site within 50m. lead.	1 sqm	16.60	
29.	Dismantling and removing old tile cladding from walls including racking out joints 12mm. deep, stacking the useful materials for reuse and removing the debris away from site within 50m lead.	1 sqm	8.60	

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

XXI. IRON WORK

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Hoisting joists and trusses and placing in position (Labour only)	1 quintal	163.90	
2.	Iron works (wrought and putup) in window gratings including drilling holes in choukatha (labour only)	1 quintal	231.50	
3.	Iron works(wroughts and put up) in trusses and record racks (Labour only)	1 quintal	818.50	
4.	Iron works (wrought and put up) in grated doors, windows and cage latrines (Labour only)	1 quintal	1196.10	
5.	Iron works (wrought and putup) in bolts of more than 15Cm. length (Labour only)	1 quintal	1438.60	
6.	Iron works (wrought and putup) in bolts of less than 15Cm. length (Labour only)	1 quintal	1535.10	
7.	Drilling holes 6mm to 12mm dia in iron flats angles, tees, etc. of 6mm to 10mm thick with hand drill (Labour only)	Each	4.00	
8.	Drilling holes 12mm to 25mm dia in iron flats angles, tees, etc. of 6mm 10mm thick with hand drill (Labour only)	Each	5.40	
9.	Drilling holes 6mm to 12mm. dia in iron flats, angels, tees etc. above 10mm thick and upto 16mm thick with hand drill (Labour only).	Each	5.40	
10.	Drilling holes 12mm to 25mm. dia in iron flats, angels, tees etc. above 10mm thick and upto 16mm thick with hand drill (Labour only).	Each	8.10	

Note :

- (i) 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises.

XXII. WELL SINKING

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Sinking 90 CM dia well in ordinary soil including supply of earthen rings depth not exceeding 4.55 metre including filling sides with puddle clay 1 M.	1RM.	912.90	
2.	Ditto sinking from 4.8 M to 9.1 M deep	1RM.	980.80	
3.	Ditto sinking from 9.9 M to 13.70 M deep	1RM.	1030.50	
4.	Ditto in hard soil not exceeding 4.55 M deep	1RM.	980.80	
5.	Ditto from 4.8 M to 9.1 M deep	1RM.	1073.60	
6.	Ditto from 9.9 M to 13.7 M deep	1RM.	1123.40	
7.	Sinking masonry well 1.50 M dia in ordinary soil up to 4.5 M deep (labour only)	1RM.	624.70	
8.	Sinking masonry well 1.50 M dia in hard soil up to 4.5 M deep (labour only)	1RM.	694.30	
9.	Sinking masonry well 1.50 M dia in ordinary soil from 4.8 M to 9.10 M deep (labour only)	1RM.	886.50	
10.	Sinking masonry well 1.50 M dia in hard soil from 4.8 M to 9.1 M deep (labour only)	1RM.	985.50	
11.	Sinking masonry well 1.50 M dia in ordinary soil from 9.9 M to 13.7 M deep (labour only)	1RM.	1198.80	
12.	Sinking masonry well 1.50 M dia in hard soil from 9.9 M to 13.7 M deep (labour only)	1RM.	1322.60	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
13	Construction of 6m. Dia R.C.C. well sinking in soft rock to lines levels and plumb by scooping out from inside and below the steining including cost of hire and running charges of tools and plants and supplying & working of pumps bailing out of water and removal of all material and obstacles from inside the well by divers etc. including precaution against shifting and tilting disposal of the soil with all leads and lift etc. complete as directed by the Engineer-in charge (Labour only)	1RM.	54304.20	
14.	Construction of 6m. Dia R.C.C. well sinking in hard rock to lines levels and plumb by scooping out from inside and below the steining including cost of hire and running charges of tools and plants and supplying & working of pumps bailing out of water and removal of all material and obstacles from inside the well by divers etc. including precaution against shifting and tilting disposal of the soil with all leads and lift etc. complete as directed by the Engineer-in charge (Labour only)	1RM.	113320.40	

Note :

- (ii) 10 per cent excess on the above rates will be allowed for the works being executed inside jail premises.

XXIII. OTHER BUILDING ITEMS.

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1	Supplying, fitting and fixing vetrified tile in floors of size 600mm x 600mm of approved make with application of polymer modified cement based water resistant adhesive bed of required thickness of 10mm and filling joints with epoxy grout of approved quality including cost of all materials, takes labour T&P etc required for the work.	Sqm	1191.60	
2	Finishing wall surface of walls with Acrylic wall putty (Water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes, labour T&P etc complete.	Sqm	52.20	
3	Providing fitting and fixing of false ceiling with Aluminium anodised T Section No. 3215 with 2'-0" center to center, L section No. 1705 upto 15 micron on 4 walls to be fixied by means of steel screw and P.V.C plug and the Aluminium grid 2'-0"x2'-0" suspended from ceiling etc complete	Sqm	1205.00	
4	Providing and laying water proofs with polymeric bituminous membrane (Plastic felt) of 2.25Kg/Sqm and 1.5mm thickness consisting of layers having center core of 20 microns thermoplastic high molecular high density polyethylene H.M.H.D.P.E. film of grade 2504 including priming the surface with bituminous primer @ 0.3 Kg/Sqm providing a coat of hot blown bitumen of 1.32 kg / Sqm, applying and laying plastic felt membrane with 10 c.m overlap adhered to blown bitumen of 85/25 or 90/15 grade and covered with a layer of hot blown bitumen @ 1.2Kg/Sqm etc complete.	Sqm	157.30	
5	Providing and laying water proofs with polymeric bituminous membrane (Plastic felt) of 2.25Kg/Sqm and 2mm thickness consisting of layers having center core of 20 microns thermoplastic high molecular high density polyethylene H.M.H.D.P.E. film of grade 2504 including priming the surface with bituminous primer @ 0.3 Kg/Sqm providing a coat of hot blown bitumen of 1.32 kg / Sqm, applying and laying plastic felt membrane with 10 c.m overlap adhered to blown bitumen of 85/25 or 90/15 grade and covered with a layer of hot blown bitumen @ 1.2Kg/Sqm etc complete.	Sqm	170.50	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
6	Providing fitting and fixing up partition walling OEL aluminum anodized section No.9210 and 9207 as single groove and double groove respectively as horizontal and vertical member and OEL section 4660 as Tapered clip for fixing up 12mm thick pre laminated board (Nova pan Make) and jointing angle No. 1855 etc.	Sqm	2665.10	
7	Supplying, fitting, fixing up window (sliding type) made up aluminum Section 151-154, 151-155, as windows frame section No. 151-155, 151-153 and 151-167 as shutter frame with 5mm thick black glass as panel fitted with rubber bending including lucking arrangement including all fitting including cost of materials all taxes labour, T&P etc. complete as per direction of Engineer-in-charge.	Sqm	2700.80	
8	Supplying fitting, fixing fully glazed aluminum framed open able windows using 15 micron anodized OEL aluminum section 2082 as out section, 9139 as mullion section, 4124 as a shutter section frame with tapered clip of section 4125, aluminum angle , rubber beading, friction stay and handle etc. with 5mm black glass.	Sqm	2846.50	
9	Providing fitting, fixing of Al. door with OEL anodized Al. door section of 9202 as vertical member, 9201 as top member and 9200 as bottom and middle member and 12mm thick pre-laminated board fixed on door frame by means of tapered clip No. 4660 and the frame to be completed by means of jointing angle No. 1855 including all cost of labour, T&P , hire charges of drilling machine, labour charges etc. complete.	Sqm	3510.60	
10	Providing fitting, fixing of Al. door with OEL anodized Al. door section of 9202 as vertical member, 9201 as top member and 9200 as bottom and middle member and 6mm plain glass in top portion with 12mm thick pre-laminated board in bottom portion fixed on door frame by means of tapered clip No. 4660 and the frame to be completed by means of jointing angle No. 1855 including all cost of labour, T&P, hire charges of drilling machine, labour charges etc. complete.	Sqm	3933.10	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
11	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes of all materials, labour, T&P etc. required for the complete in all respect.	Sqm	3113.00	
12	Providing and fixing of Sliding windows to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 mm thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with total coated thickness of 0.55 mm .Slide guide section should be made of 0.5 mm stainless steel of 430 grade. with paint specification being with primer of 5-7 microns thick and finished paint with polyster paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the Sections for external frame bottom and top should be of 79 x 45 mm. external frame sides should be of 69 x 24 mm, guide for top and bottom should be of 69 x 26 mm (Stainless Steel). Section for shutter should be of 26 x 30 mm, Sash bar should be of 23 x 57mm.Accessories / gaskets are to be used as per the manufacturer's supply and specification like gasket will be made of EPDM. All corner brackets for internal and external are to be made of glass filled nylon. The sections are to be cut to length, joined and assembled by means of corner bracket and frames are fixed to the concrete/masonry walls by means of self expanding screws and glass to be used of 5 mm reflective with all taxes etc. complete.	Sqm	3306.30	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
13	Providing and fixing of Partly fixed, partly top hung and partly louvered windows to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 mm thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Section for internal top and bottom frames in the louvered areas should be 18 x 40 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length ,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by means of self expanding screws and glass to be used of 5 mm reflective with all taxes etc. complete.	Sqm	3266.70	
14	Providing and fixing of Fixed Glazing with part Top hung to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 mm thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns along with the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length ,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by means of self expanding screws and glass to be used of 5 mm reflective with all taxes etc. complete.	Sqm	3251.60	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
15	Providing and fixing of Fixed Ventilators to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 mm thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyster paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns along with the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length ,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by means of self expanding screws and glass to be used of 5 mm reflective with all taxes etc. complete.	Sqm	3611.90	
16	Providing and fixing of Side hung Door to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 mm thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyster paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and shutter being of 46 x 46 mm and lock rail and bottom rail should be of 23 x 130mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle and lock of approved quality. Hinges made up of 2.5mm thick. Gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The sections are to be cut to length ,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by means of self expanding screws and board to be of 9mm pre-laminated with all taxes etc. complete .	Sqm	3372.10	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
17	Providing and fixing of Swing Door to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 mm thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 33 x 57 mm and shutter being of 46 x 52 mm and 46 x 46 mm and lock rail should be of 23 x 130mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle, lock and floor spring of approved quality. Gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The sections are to be cut to length ,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by means of self expanding screws and glass to be used of 6 mm clear with all taxes etc. complete.	Sqm	4907.50	

XXIV. Bridge Works

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
1.	Plain Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.			
	(A) PCC Grade M15	1Cum.	1848.10	
	(B) PCC Grade M20	1Cum.	2143.40	
	(C) PCC Grade M25			
	Case I: Using Concrete Mixer	1Cum.	2351.00	
	Case II: Using Batching Plant, Transit mixer & concrete pump	1Cum.	2318.20	
	(D) PCC Grade M30			
	Case I: Using Concrete Mixer	1Cum.	2373.50	
	Case II: Using Batching Plant, Transit mixer & concrete pump	1Cum.	2338.50	
2.	Providing and Constructing Temporary Island 16 m diameter for Construction of Well Foundation for 8m dia. Well.			
A.	Assuming depth of water 1.0 m and height of island to be 1.25 m.	Each	29623.60	
B.	Assuming depth of water 4.0 m and height of island 4.5 m.	Each	205239.80	
C.	Providing and constructing one span service road to reach island location from one pier location to another pier location	RM	1262.00	
3.	Providing and Laying Cutting Edge of Mild Steel weighing 40 kg per metre for Well Foundation complete as per Drawing and Technical Specification.	MT	40060.30	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
4.	Providing Steel Liner 10 mm thick for Curbs and 6 mm thick for Steining of Wells including Fabricating and Setting out as per Detailed Drawing.	MT	36634.00	
5.	Levelling Course for Pile cap Providing and laying of PCC M15 levelling course 100mm thick below the pile cap.	1Cum.	1848.10	
6.	Cement Mortar 1:3 (1 cement : 3 sand)	1Cum.	1821.70	
7.	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical	1 Metre	87.80	
8.	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification			
	(A) Granular material	1Cum.	134.00	
	(B) Sandy material	1Cum.	108.20	
9.	Providing and laying of Filter media with stone crushed aggregates of 45 mm size satisfying the requirements laid down in clause 2504.2.2. of MoRTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment , wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification.	1 Cum	643.60	
10	Construction of precast RCC railing of M30 Grade, aggregate size not exceeding 12 mm, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for	RM	878.20	

Sl. No.	Description of Items	Unit	Rate	
			Rs.	P.
	expansion, complete as per approved drawings and technical specifications.			
11.	Construction of RCC railing of M30 Grade in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per approved drawings and technical specifications.	RM	854.60	
12.	Painting on concrete surface Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 sqm.	Sqm	32.00	
13.	Providing, fitting and fixing Angle Iron Expansion joints with M.S Angle of size 75mm x 75mm x 6mm and 6mm thick M.S plate and 12mm dia HYSD bars	RM	1534.00	

XXV. MISCELLANEOUS ITEMS

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
	(a) R.C.C. Works			
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.	220.00	
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.	330.00	
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.	210.00	
4.	R.C.C. boundary stones (1:2:4) with washed shingles or hard stone chips 10cm x 10cm and 1.2M high fitted and fixed complete	Each	55.00	
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	4660.00	
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	70.50	
7.	Labour for fixing 15 cm dia and 1 m long R.C.C. guard posts in position 45cm below ground level.	Each	2.00	
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	310.50	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
(b)	150cm long ordinary 5 Km. Stone for N.H., S.H. and M.D.R.	Each	440.60	
(c)	95cm long ordinary Km. Stone for N.H., S.H. and village roads.	Each	230.00	
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	1 sqm.	325.50	
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.	340.20	
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.	580.00	
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	1400.00	
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.	1RM	10.30	
14.	Ditto extra for each additional 2.5cm depth over the depth of 15cm	1RM	2.10	
15.	Inserting premoulded expansion joint including cleaning (labour only)	1RM	1.20	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
	(b) Doors and Window		Rs.	P.
1.	Labour of replacing glass- panes including cutting to size with cost of nails and putty.	1 Sqm	52.00	
2.	Cleaning glass-panes with spirit including cost of spirit	1 Sqm	4.10	
3.	Frosting glass-panes including cost of all labour and materials	1 Sqm	15.20	
4.	Fitting and fixing glass louvers in position in wooden, steel window frames including cutting grooves.	1 Sqm	70.00	
5.	Renewing putty in fixing glass-panes	1 Sqm	40.10	
6.	Fixing old glass panes with wooden beading including cost of nails and beadings	1 Sqm	45.70	
7.	Providing, fitting and fixing with sal wood battens, 7.5cm x 1.2cm with 6mm mesh wire netting, or expanded metal including panting complete	1 Sqm	310.00	
8.	Fixing wire netting or welded mesh including screw and nails (Labour only)	1 Sqm	42.20	
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	305.00	
10.	Labour for taking out wooden/steel door frame and refixing the same after necessary repair including making good damages to walls.	Each	55.80	
11.	Labour for taking out wooden/steel window and refixing the same after necessary repairs including making good damages to walls.	Each	43.10	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
12.	Taking out the door or window shutters and refixing them including screws as may be required.			
	(a) Doors	Each	53.70	
	(b) Windows	Each	32.70	
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	23.20	
14.	(a) Supplying and fixing W.I. clamps 33cm to 38Cm long of 35mm x 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	20.50	
	(b) Supplying and fixing W.I. clamps 25cm to 30cm long of 35mm x 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	11.20	
15.	Labour for fixing tower bolts 15cm to 23cm long including supply of screw.	Each	4.10	
16.	Labour for fixing tower bolts 25cm to 30cm long including supply of screws.	Each	5.70	
17.	Labor for fixing iron bolts of different sizes, iron chains, iron rings or brass rings to doors and windows.	Each	2.10	
18.	Supplying and fixing wooden blocks to walls	Each	1.50	
19.	Supplying and fixing Sal wood, sand blocks 13cm x 10cm x 7 cm to choukaths including cost of screws.	Each	2.30	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
20.	Supplying and fixing hinged cleats 8 cm to 10cm long and 4cm thick including cost of screws	Each	4.40	
21.	Labour for fixing catch hooks of different size to doors and windows.	Each	2.20	
22.	Easing, oiling and petty repairs to doors and windows	Each	4.30	
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	52.00	
24.	Labour for making chaukaths and burgas from old wood works	1 cum	950.00	
25.	Supplying, fitting and fixing Sal wood gate as per approved designed including painting, etc. complete in all respect	1 sqm	285.00	
26.	Cutting grooves in laterite stone masonry for fixing choukaths of doors and windows.	Each	3.40	
27.	Making cement concrete (1:2:4) door sills	1 RM	10.20	
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 oxidized iron hinges, etc. complete.	1 Sqm	670.00	
29.	Providing and fixing in position 30mm thick Ditto one side decorative and one side commercial shutter Ditto.	1 Sqm	800.00	
30.	Providing and fixing in position 30mm thick Ditto both side decorative shutter Ditto.	1 Sqm	1025.50	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
31.	Providing and fixing in position 25mm thick Ditto both side decorative shutter Ditto.	1 Sqm	590.80	
32.	Providing and fixing in position 25mm thick Ditto one side and one side commercial shutter Ditto.	1 Sqm	750.30	
33.	Providing and fixing in position 25mm thick Ditto both side decorative shutter Ditto	1 Sqm	870.40	
34.	Labour only for fixing in position flush shutters fixtures of any thickness and any quality.	1 Sqm	45.40	
35.	Add extra for vision panels in square shape			
	(a) Both side commercial of any thickness	Each	65.60	
	(b) One side or both side decorative of any thickness	Each	79.80	
36.	Deduct for single leaf shutters as rebete cutting is not required (for flush shutters)	Sqm	25.10	
37.	Add extra for Teak wood leaping (Double leaf)			
	(a) Commercial 25mm thick	Sqm	168.40	
	(b) Commercial 30mm thick	Sqm	168.40	
38.	Add extra for teak wood leaping double leaf decorative (one side or both side)			
	(a) 25mm thick	Sqm	105.20	
	(b) 30mm thick	Sqm	110.70	
39.	Add extra for Teak leaping with commercial wood for single leaf shutters on both the sides.			
	(a) 25mm thick	Sqm	104.80	

Sl. No.	Description of Items	Unit	Rate
1	2	3	4
			Rs P
	(b) 30mm thick	Sqm	115.80
40.	Add extra for Teak leaping decorative for single leaf shutters, one side or both the sides	Sqm	
	(a) 25mm thick	Sqm	70.80
	(b) 30mm thick	Sqm	55.70
41.	Supplying R.C.C. door/window frames of cross section 100mm x 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	160.00
42.	Fitting and fixing of R.C.C. door/window frames of sizes		
	(a) Doors	Each	90.10
	(b) Windows – 1.80m x 1.35m. size	Each	102.20
	1.50m x 1.35m. size	Each	102.20
	1.20m x 1.35m. size	Each	57.00
	0.90m x 1.35m. size	Each	57.00
43.	Providing & fixing 25mm to 12mm Teak wood beading all round door and window and polished as required.	1RM	23.20
	(c) Roofing		
1.	Leak repair to terrace roof with cement and cow dung proportion 1:1 (by volume)	100 sqm	210.20
2.	Leak repair to terrace roof with cement and cow dung proportion 1:1 (by volume) lime or cement grouting to cracks.	100 m	230.00

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
3.	Leak repair to corrugated asbestos or G.I. sheet roofing with pitch and coaltar, putty and paint around the holes.	100 Nos	90.00	
4.	G.I. sheet gutter upto 30cm wide including fixing with clamps and making connection with rain water pipes, etc. complete.	1 RM	75.00	
5.	Taking out choked up rain water C.I. down pipe including refixing the same in position with cement.	Each	25.50	
6.	Labour for fitting and fixing 8 cm to 10 cm C.I down pipe.	1 RM	4.50	
7.	Labour for fixing rain water down pipe with necessary bend shoes and heads etc. including cost of clamps and nails	1 RM	10.00	
8.	7.5cm dia earthen rain water spout 1.0M long	Each	22.50	
9.	Cleaning flues of chimneys	Each	10.20	
10.	Fixing ridges and valley in C.I. sheet roofing (Labour only)	1 sqm	10.10	
11.	Lime mortar ridge over pan tiled roof	1 RM	15.60	
12.	Labour for changing burgas irrespective of length and size including repairs to damages.	Each	8.60	
13.	Labour for laying local Raniganj tile roofing	1 Sqm	5.75	
14.	Leak repairs to single Nuria tile roofing	1 Sqm	1.20	
15.	Leak repairs to double Nuria tile roofing	1 sqm	0.80	
16.	Labour for fitting and fixing old roof timbers including cost of nails	1 cum	575.00	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
17.	Labour for removal of old bamboo frame including stacking the useful materials for reuse.	1 sqm	0.80	
18.	Labour for fixing 'J' 'L' or 'U' hooks for repair works only.	Each	1.50	
	(d) Ceiling			
1.	Hassain ceiling stretched on Sal wood frame and mountain battens including all materials, etc. complete	1 sqm	35.70	
2.	Hassain mat ceiling stretched on old frames including all materials etc.	1 sqm	20.00	
3.	Bamboo celiling with new Sal frame including all materials etc. complete	1 sqm	70.60	
4.	Bamboo celiling with old Sal frame including all materials etc. complete	1 sqm	15.20	
	(e) Flooring			
1.	Picking up old floor for resurfacing	1 sqm	3.50	
2.	Polishing the floor surface with red oxide, bees wax and turpentine	1 sqm	12.20	
3.	Rubbing old marble chips or marble tile flooring and dados skirting including wax polishing to give granolithic finish.	1 sqm	55.00	
	(f) Iron works			
1.	Labour for fitting and fixing flat iron wind ties including drilling holes and supplying bolts and nuts.	1 qtl	210.50	
2.	Fabricated iron works (Labour only)	1 qtl	270.80	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
3.	Labour for fixing M.S. bed plates 12mm thick set in cement.	1 sqm	120.50	
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	75.40	
	(b) 28mm dia M.S. Rods	Per joint	87.90	
	(c) 30mm dia M.S. Rods	Per joint	90.20	
	(d) 35mm dia M.S. Rods	Per joint	92.10	
	(e) 38mm dia M.S. Rods	Per joint	92.50	
5.	Labour for fitting and fixing of M.S. window grills including cost of screws complete	1 Sqm	12.10	
6.	Labour for fitting and fixing of M.S. Gates as per approved design including cost of all materials complete	1 Sqm	70.10	
7.	Labour for fixing holding down bolts in cement mortar	Each	3.10	
8.	Labour for fixing fan hooks in existing R.C. ceiling	Each	15.20	
	(g) white washing			
1.	White washing and refiguring kilometer stones or mile stones or boundary pillars	Each	4.50	
2.	White washing and refiguring furling posts or 100M post	Each	2.20	
3.	Chalk washing one coat to receive distempering	1 sqm	1.80	
4.	Chalk washing two coats to receive distempering	1 sqm	2.00	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
5.	Labour for rubbing out heavy moss from shift walls exposed to weather	100 sqm	10.90	
6.	Washing the plastered surface with soap and soda water	100 sqm	20.50	
	(h) Painting			
1.	Painting figures and letters of various size upto 120 mm	Each	1.20	
2.	Painting figures and letters above 120 mm size	1 RM	1.20	
3.	Engraving letters of various sizes from 5cm to 10cm including painting, etc. complete	1 RM	2.20	
4.	Painting and writing road signs of all kinds as per I.R.C. standard including painting boards.	1 RM	6.70	
5.	Marking and painting lines or arrows	1 RM	1.80	
6.	Wall painting with any approved paint 1 coat (Labour only)	1 sqm	3.90	
7.	Wall painting with any approved paint 2 coats (Labour only)	1 sqm	4.80	
8.	Scraping old paint with scrapers, sand papering and washing with soap water or soda including scaffolding charges upto 5M height	1 sqm	3.50	
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	4.80	
10.	Washing and cleaning plastic paint/cement paint/distempered walls including cost of painting sponge	100 sqm	20.40	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
	(i) Pile Driving			
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	12.20	
2.	Ditto- Ditto-beyond 1.50m depth – Do – Do	1 m	20.50	
3.	Ditto-Ditto above 15 Cm and upto 20cm dia upto 1.50M depth	1 m	21.80	
4.	Ditto- Ditto-beyond 1.50M depth – Do – Do	1 m	25.60	
5.	Ditto-Ditto above 20 Cm and upto 20cm dia upto 1.50M depth	1 m	28.70	
6.	Ditto- Ditto-beyond 1.50M depth – Do – Do	1 m	31.70	
7.	Ditto-Ditto above 25 Cm and upto 20cm dia upto 1.50M depth	1 m	32.80	
8.	Bamboo jafree on top of piles	100 Sqm	1280.00	
9.	Split bamboo jafree closely woven including bamboo posts 7.5cm to 10 Cm dia 1.8 M apart.	100 Sqm	1020.00	
10.	Bamboo piling 1.50M long 30cm apart to be driven to a depth of 90Cm with 60Cm jafree on top.	1 RM	25.80	
11.	Bamboo piling 2.00M long 30cm apart to be driven to a depth of 1.0M with 90Cm jafree on top.	1 RM	31.50	
12.	Bamboo piling 3.7M long 30cm apart to be driven to a depth of 2M with 1.50M jafree on top.	1 RM	76.70	
13.	Half bullah tying pieces fitted and fixed with nails (labour only)	1 RM	6.20	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
14.	For driving piles in water add extra to the respective rate of pile driving item.	1 RM	1.80	
	(j) String course and cornice			
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	15.30	
2.	9 cm projection 6 cm deep cornice with brick in cement mortar (1:3) and cement mortar (1:4) complete	1 RM	26.20	
3.	15cm projection and 15cm deep cornice with brick in cement (1:3) including drip course and cement plaster (1:4) complete.	1 RM	35.80	
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	60.20	
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	45.40	
6.	15 Cm deep brick coping 23cm to 25cm thick walls including plastering (1:4) complete.	1 RM	31.60	
7.	15 cm deep brick coping for 11cm to 12cm thick walls	1 RM	25.80	
8.	7.5cm deep brick coping on compound wall of 23cm to 25cm thick including cement plaster (1:4) complete.	1 RM	25.60	
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	27.50	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
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	12.50	
11.	Brick moulding including plastering with cement mortar (1:4) 12cm deep and 11cm projection	1 RM	23.50	
	(k) Drain			
1.	15cm. x 15cm concrete drain with cement concrete (1:3:6) and cement plaster (1:3) including punning over hard base.	1 RM	72.40	
2.	10cm. x 15cm concrete drain with cement concrete (1:3:6) and cement plaster (1:3) including punning over hard base.	1 RM	49.80	
3.	25cm. x 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	110.20	
4.	Shallow brick drain in courtyard 6cm deep with cement plaster (1:3) finished smooth.	1 RM	35.20	
5.	23cm to 30cm drain with cement concrete (1:2:4) finished smooth	1 RM	11.80	
6.	10cm x 15cm drains finished smooth	1 RM	7.50	
7.	15cm thick cement concrete (1:3:6) drain 75cm wide and 30cm depth including 12MM cement plastering (1:3) finished smooth.	1 RM	380.20	
8.	Ditto 60cm wide and 30cm depth	1 RM	285.00	
9.	Ditto 30cm wide and 30cm depth	1 RM	145.00	
10.	Waste water outlet in cement including cost of gratings	Each	17.50	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
11.	Waste water outlet in cement without gratings	Each	8.90	
	(l) Fencing			
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	64.70	
2.	1.50M high bamboo fencing with muli bamboo posts and strong bamboo frame work including all materials complete.	100 m	900.10	
3.	Green fencing 1.25M height with thomy bushes and split bamboo.	100 m	310.50	
4.	Supplying fitting and fixing R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm x 13cm at bottom and 8cm x 8 cm at top and 30cm x 30cm x 8 cm base finished smooth	Each	150.00	
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	0.50	
	(m) Bridge work and other Hydraulic structure			

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
	Well Sinking :			
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 cantilever 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	5128.00	
	(a1) 3.00 M dia every successive additional metre depth beyond 10.00M depth	Ditto	56.00	
	(b) 3.25M dia outside circular or octagonal single wall, upto 10.00M add	Ditto	6590.00	
	(b1) 3.25 M dia outside circular or octagonal single well for every successive additional metre depth beyond 10.00M depth add.	Ditto	92.00	
	(c) 3.50M dia outside circular or octagonal single well upto 10.00M depth	Ditto	8256.50	
	(c1) 3.50M dia for every successive additional metre depth beyond 10.00M add	1 RM	99.00	
	(d) 4.00 M dia outside circular or octagonal single well upto 10.00M depth	Ditto	10259.50	
	(d1) 4.00 M dia for every successive additional metre depth beyond 10. depth add	Ditto	123.00	
	(e) 4.25 M dia outside circular or octagonal single well	Ditto	12316.50	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
	(e1) 4.25M dia for every successive additional meter depth beyond 10.00 M depth add.	Ditto	147.50	
	(f) 4.50M dia outside circular or octagonal single well	Ditto	12959.00	
	(f1) 4.5M dia for every successive additional metre depth beyond 10.00 M depth add.	Ditto	155.50	
	(g) 4.75M dia outside circular or octagonal single well	Ditto	13647.00	
	(g1) 4.75M dia for every successive additional metre depth beyond 10.00 M depth add.	Ditto	177.00	
	(h) 5.00 M dia outside circular or octagonal single well	Ditto	14431.00	
	(h1) 5.50M dia for every successive additional metre depth beyond 10.00M depth add.	Ditto	187.50	
	(i) 5.50 M dia outside circular or octagonal single well	Ditto	15159.50	
	(i1) 5.50 M dia for every successive additional metre depth beyond 10.00M depth add	Ditto	197.00	
	(j) 5.75M dia outside circular or octagonal single well	Ditto	15992.50	
	(j1) 5.75M dia for every successive additional metre depth beyond 10.00M depth add	Ditto	207.50	
	(k) 6.00 dia outside circular or octagonal single well	Ditto	16863.00	
	(k1) 6.00 M dia for every successive additional metre depth beyond 10.0M depth add.	Ditto	219.00	
	(l) 6.50M dia outside circular or octagonal single well	Ditto	17787.50	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
	(l1) 6.50M dia for every successive additional metre depth beyond 10.00M depth add	Ditto	231.00	
	(m) 6.75M dia outside circular or octagonal single well	Ditto	18477.50	
	(m1) 6.75M dia for every successive additional metre depth beyond 10.00M depth add	Ditto	240.00	
	(n) 7.00M dia outside circular to octagonal single well	Ditto	19747.00	
	(n1) 7.00M dia for every successive additional metre depth beyond 10.00M depth add	Ditto	256.50	
	(o) 7.25M dia outside circular or octagonal single well	Ditto	20801.50	
	(o1) 7.25M dia for every successive additional metre depth beyond 10.00M depth add	Ditto	270.00	
	(p) 7.50M dia outside circular or octagonal single well	Ditto	21895.00	
	(p1) 7.50M dia for every successive additional metre depth beyond 10.00M depth add.	Ditto	284.50	
2.	(a) 3.30M dia outside circular or octagonal twin well upto 10.00M depth	Ditto	15166.00	
	(b) 3.00M dia for every successive additional metre depth beyond 10.00M depth add.	Ditto	146.00	
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.			

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
	(a) Upto 3.00 M depth	1 cum	3875.00	
	(b) Beyond 3.00M and upto 6.00 M. depth	Ditto	5166.50	
	(c) Beyond 6.00M depth	Ditto	6457.50	
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	18082.50	
	(b) Beyond 6.00M depth	Ditto	22594.00	
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	Ditto	11624.00	
	(b) Beyond 6.00M depth	Ditto	14528.00	
6.	Leveling the hard rock surface under wells for piers, abutments and wings under water	1 Sqm	162.50	
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	95.50	
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	936.00	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
9.	Labour for fixing rocker and roller bearings	Each Set	3650.00	
10.	Providing C.I. grating to holes size upto 15cm dia for each drainage of water including cost of all materials.	Each	45.20	
11.	Cement concrete in foundation including dewatering add extra to the respective rate of cement concrete	1 Cum	57.60	
12.	Cement concrete in substructure including frame work (shuttering and hoisting) add extra to the respective items of work.	1 Cum	106.20	
13.	Masonry work in foundation below bed level add extra to respective rates of foundation for dewatering and lowering of materials.	1 Cum	33.70	
14.	Shoring foundation trenches, pits, etc. with closed wood sheet piles excluding cost of wood (Labour only)	1 Sqm	12.75	
15.	Shuttering in foundation excluding cost of wood (Labour only)	1 Sqm	3.10	
16.	Trial boring in river-bed 38mm to 50mm dia upto 9.15M depth	1 RM	35.30	
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	425.20	
18.	Fixing wooden planks and scantling for bridge decking including cost of new nails (Labour only)	1 Cum	440.80	
19.	(a) Strip seal expansion joint as per MORT&H specification.	RM	9500.00	
	(b) Compression seal seal expansion joint as per MORT&H specification	RM	8500.00	
	N.B. : The rates for item No. 1 to 17 are provisional			

Sl. No.	Description of Items	Unit	Rate Rs. P
1	2	3	4
	(n) Timber Bridges		
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	7820.30
2.	Refixing old wood including cost of new nails etc.	1 Cum	460.00
3.	Dismanting old wood work of bridges and stacking at site	1 Cum	220.00
4.	Sal wood planks and sawn scantling for bridge including fixing and cost of new nails, etc. complete	1 Cum	17820.30
5.	Labour for fitting and fixing old sal planks for fair-weather road including cost of nails	1 Sqm	9.20
6.	Labour for fixing old sal bullah including cost of nails after cutting to required sizes.	1 RM	4.50
7.	Labour for filling empty cement bags, sewing and laying in position including cost of sewing strings.	100 Nos.	100.00
8.	Labour for filling empty cement bags sewing and laying under water in position.	100 Nos	105.60
9.	Loading cement bags filled with sand in boat within 300m. lead.	100 Nos	45.20
10	Caulking boats, lock gates, etc. with Oakum	30 RM	92.20
	(o) Road work		
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	13.80
2.	Labour charges for pre-coating 10mm chips as per I.R.C. code 48/72	1 Cum	380.30
3.	K.B.bricksflat soling including filling on interstics with sand or sandy soil	1 Sqm	30.70

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
4.	Second class K.B. bricks on dental brick edging	1 RM	8.10	
	(p) Other Miscellaneous items			
1.	Clearing heavy jungle including uprooting stumps of trees and trees above 1M girth and thick bushes including bamboo clumps based on premeasurement.	100 sqm	63.10	
2.	Clearing shrub jungles uprooting stumps and small bushes and trees below 1M girth on premeasurement.	100 sqm	20.20	
3.	Cutting and uprooting trees including removal and making good to the damages to ground, trees up to 1.50M girth.	Each	30.40	
4.	Cutting and uprooting trees including removal and making good to the damages to ground trees above 1.50M upto 3.00 M girth	Each	48.20	
5.	Cutting and uprooting trees including removal and making good to the damages to ground trees above 3.00M. girth	Each	73.60	
6.	Washing newer cot including refixing each cot	Each	18.20	
7.	Dewatering and removing rubbish and silt and disinfecting wells upto 1.5M dia	Each	102.10	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
8.	Dewatering and removing rubbish and silt and disinfecting wells above 1.50M and upto 2.50M dia	Each	165.50	
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	240.10	
10.	Supplying fitting and fixing teak wood picture rail 8 cm to 10cm wide and 12cm tick including polishing, etc. complete	1 RM	72.20	
11.	Bamboo gabions 60cm dia 1.50 M high including coaltaring 2 coats to 30 cm bottom fitted and fixed complete	Each	35.50	
12.	Bamboo gabions 1m dia 1.50 M high including coaltaring 2 coats to 30 cm bottom fitted and fixed complete	Each	58.20	
13.	Recanning arm of dining chair with nylon cane (Back)	Each	31.80	
14.	Recanning arm of dining chair with country cane (Back)	Each	25.70	
15.	Recaning arm of dining chair with nylon cane (seat)	Each	57.60	
16.	Recaning arm of dining chair with country cane (seat)	Each	42.20	
17.	Recanning easy chair with nylon cane	Each	148.20	
18.	Recanning easy chair with country cane	Each	132.20	
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		

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
	(b) 1.00M dia and 1.50M high	Each	310.00	
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	9.20	
	(b) 150mm dia R.C.C. pipe	1 RM	10.20	
	(c) 250mm dia R.C.C. pipe	1 RM	15.20	
	(d) 300mm dia R.C.C. pipe	1 RM	17.80	
	(e) 450mm dia R.C.C. pipe	1 RM	22.90	
	(f) 600mm dia R.C.C. pipe	1 RM	28.10	
	(g) 900mm dia R.C.C. pipe	1 RM	42.20	
	(h) 1200mm dia R.C.C. pipe	1 RM	73.20	
21.	Labour for fixing bullahs 30cm to 50cm below ground for barricading purpose.	Each	1.20	
22.	23cm to 30cm dia Sal bullah fitted and fixed complete	1 Cum	6530.00	
23.	10cm to 13cm dia Non-Sal bullah fitted and fixed complete.	1 m	22.00	
24.	Non-sal bullah 13cm to 15cm dia fitted and fixed complete	1 m	38.20	
25.	Non-sal bullah 18cm to 20cm dia fitted and fixed complete	1 m	55.10	

Sl. No.	Description of Items	Unit	Rate	
1	2	3	4	
			Rs.	P.
26.	25mm thick sal plank fitted and fixed complete for Shelves	1 Sqm	350.80	
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	90.80	
28.	Renewing bases of lightening conductors terminals with pillar 25cm x 25cm and 12mm cement plaster (1:6) complete	Each	62.10	
29.	Making empty coalter drum gabions with thick coat of colatar to exposed surface (drums to be supplied departmentally).	Each	10.20	
30	Cutting chase or grooves upto 15cm x 15cm in old walls including fixing C.I. sheet in cement mortar (1:3)	1 RM	10.20	
31.	12cm thick honey comb brick works in cement mortar (1:4) including cement plaster (1:6) complete.	1 Sqm	130.00	
32.	Labour for cutting the empty coalter drums and flatterring the same	Each	3.00	
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	105.10	
34.	Labour for fitting and fixing masonite sheet lining to wall faces etc. complete.	1 Sqm,	19.00	
35.	Crack repair to walls 8cm x 2.5cm with cement mortar (1:3)	1 RM	2.40	
36.	Clearing of water hyacinth from canal and drainage channels			
	(a) Thickely grown	1 Sqm	1.80	

Sl. No.	Description of Items		Rate	
1	2	3	4	
			Rs.	P.
	(b) Moderately grown	1 Sqm	1.10	
37.	Dug belling 23cm x 15cm	100 M	17.50	
38.	Drilling hole 25cm to 37mm dia in granite rock	1 RM	130.20	
39.	Drilling hole 25cm to 37mm dia in rock other than granite	1 RM	110.10	
40.	Sawing charges of wood by machine as per specified size	1 Cu. M	365.00	
41.	Sewing charges by hand including cost of the thread hand needless per R.M.	1 RM	1.30	
	(q) Hire and Running charges			
1.	Trailer with machine	Per day	102.00	
2.	Dug out boat with 1 boat man	Per day	72.80	
3.	Boat excluding boat man	Per day		
	(i) Small upto 1M width	Per day	61.80	
	(ii) Big above 1M width	Per day	90.20	
4.	Plough man with 2 bullocks or buffalos	Per day	75.00	
5.	Bullock or buffalo cart with driver	Per day	95.60	
N.B. : For flood and hazardous situation, the boat hire charges may be increased upto 25%				

Note :

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.

(r) EPOXY COATING

Sl. No	Description of item	Dia of Bar in mm	Rate (Rs. / M.T.)	
01	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	Rs.	5350.00
		28 mm	Rs.	6150.00
		25 mm	Rs.	6525.00
		20 mm	Rs.	7500.00
		16 mm	Rs.	8400.00
		12 mm	Rs.	8700.00
		10 mm	Rs.	9570.00
		08 mm	Rs.	11,500.00

Notes :

- 01 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 Orissa within that period.
02. The rate will be valid for one financial year and will be reviewed after one year

(s) All Weather Road Repairing Compound.

Sl. No	Description of item	Unit	Rate (Rs.)
01	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	On the basis of Analysis of rate approved by competent authority.