

**REVISED EMBEDDED TAX RATES**  
**AS PER BOCEs 23.03.2019**  
**(SoR 2009-10)**



**Statement showing the Schedule of Rates with Revised embedded tax rates of Irrigation Work items for the SoR 2009-10**

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S.Rate for the year 2009-10</b>	<b>Total embedded Tax Rate (%)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Acetylene gas	cum	<b>240</b>	20.64
2	Asphalt 80/100 Grade	Kg	<b>30</b>	20.63
3	Binding wire	Kg	<b>50</b>	20.63
4	Burnt stone slab 10 cm thick	sqm	<b>200</b>	20.64
5	Cement 43 Gr/53 Gr Note: Rate as fixed by the Government	tonne	<b>4300</b>	30.50
6	Chequered plate	Kg	<b>35</b>	20.65
7	Coarse aggregate 10-4.75 mm(excluding Seignioragecharges)	cum	<b>745</b>	-
8	Coarse aggregate 20-10 mm(excluding Seigniorage charges)	cum	<b>1020</b>	-
9	Coarse aggregate 40-20 mm(excluding Seigniorage charges)	cum	<b>970</b>	-
10	Coarse aggregate 80-40 mm(excluding Seigniorage charges)	cum	<b>555</b>	-
	The aggregate rates mentioned above (from SI.No.7 to SI.No.10) are exclusive of Seigniorage charges but including blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained from hand broken, the blasting and crushing charges shall be deducted. The aggregate shall be HB Stone of Granite, Dolomite, Dolerite and Trap. (Quartzite and Basalt with aggregate impact of less than 20)			
11	Coir brush	Each	<b>20</b>	20.63
12	Copper sheet 16 SWG	kg	<b>390</b>	20.64
13	Coursed rubble stone 30 x 30 x 45 cm(excluding Seigniorage charges)	Each	<b>12</b>	4
14	Coursed rubble stone 30 x 30 x 60 cm(excluding Seigniorage charges)	Each	<b>14</b>	4
15	Curing Compound	Ltr	<b>90</b>	30.49
16	D – cord	Rm	<b>9</b>	30.43
17	Delay - noiseless trunk	Each	<b>18</b>	12.5
18	Detonating fuse coil	Rm	<b>6.5</b>	30.52
19	Detonating shock tube / Cord relays	Rm	<b>50</b>	30.51
20	Detonator delay type	Each	<b>17</b>	30.47
21	Detonator electric	Each	<b>10</b>	30.55
22	Detonator ordinary	Each	<b>5</b>	30.55
23	Empty cement bag	Each	<b>3</b>	4.17
24	Explosive ANFO	kg	<b>25</b>	30.48
25	Explosive ANFO high strength booster	kg	<b>55</b>	30.49
26	Explosive small dia ( Kevex-220 or equivalent)	kg	<b>48</b>	30.51
27	(a)Fine aggregate/ sand(un- screened) for Concrete & Filtering items) (excluding Seigniorage charges)	cum	<b>120</b>	4
27	b)Fineaggregate/Sand(unscreened)for filling(excluding Seigniorage charges)	cum		
28	Fine aggregate /Sand (Screened) for Mortar ,Plastering items and Sand blasting items(excluding Seigniorage charges) (Rs.76 is added towards screening Charges)	cum	<b>250</b>	4
29	Geo-textile ( filter fabric ) 160 gsm	sqm	<b>75</b>	23.74

<b>SI No.</b>	<b>DESCRIPTION OF MATERIAL</b>	<b>UNIT</b>	<b>S.Rate for the year 2009-10</b>	<b>Total embedded Tax Rate (%)</b>
30	Geo-textile ( filter fabric ) 200 gsm	sqm	<b>90</b>	23.75
31	Geo-textile ( filter fabric ) 250 gsm	sqm	<b>110</b>	23.75
32	G I Pipe 100 mm dia B Class	Rm	<b>500</b>	20.64
33	G I Pipe 15 mm dia A class	Rm	<b>68</b>	20.65
34	G I pipe 25 mm dia A class	Rm	<b>100</b>	20.64
35	G I pipe 40 mm dia B class	Rm	<b>170</b>	20.64
36	G I pipe 50 mm dia A class	Rm	<b>190</b>	20.64
37	G I Pipe 80 mm dia B Class	Rm	<b>260</b>	20.64
38	G.I Bolts / Nuts and Washers	kg	<b>72</b>	20.64
39	G.I sheet ( plain )	tonne	<b>42000</b>	20.64
40	Hariyala turfing sods	sqm	<b>20</b>	12.49
41	Hectometer stone one line dressed	Each	<b>160</b>	4
42	Hemp yarn	kg	<b>50</b>	14.39
43	Honne wood planks	cum	<b>40000</b>	30.5
44	Hume pipe with collar 150 mm dia	Rm	<b>200</b>	20.64
45	Hume pipe with collar 300 mm dia	Rm	<b>400</b>	20.64
46	J- Bolts 30 cm long	Each	<b>19</b>	20.63
47	Jungle wood planks	cum	<b>16000</b>	12.5
48	Khandki stone 15 to 20 cm height	Each	<b>6</b>	3.99
49	Khandki stone 20 to 25 cm height	Each	<b>8</b>	4.03
50	Khandki stone 25 to 30 cm height	Each	<b>10</b>	3.95
51	Kilometer stone one line dressed	Each	<b>300</b>	4
52	LDPE sheet ( Geo membrane ) 500 micron thick	sqm	<b>60</b>	20.65
53	LDPE sheet ( Geo membrane ) 750 micron thick	sqm	<b>90</b>	20.64
54	LDPE sheet ( Geo membrane ) 1000 micron thick	sqm	<b>120</b>	20.64
55	M S Bolts / Nuts / Washers	kg	<b>45</b>	20.64
56	Murrum(including loading charges but excluding Seigniorage charges )	cum	<b>65</b>	0
57	Oxalic acid	Ltr	<b>50</b>	20.63

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for the year 2009-10	Total embedded Tax Rate (%)
58	Oxygen gas	cum	35	20.65
59	PVC sealing strip	Rm	32	20.62
60	PVC water stopper 310 mm wide	Rm	365	20.64
61	PVC pipe of 100 mm dia	Rm	130	20.64
62	Reinforcement steel (HYSD/TMT )Note: As per Monthly rate fixed by Sub-Committee	tonne	31000	20.64
63	Resin bond Cement capsule	Each	50	20.63
64	Rough stone 20 x 20 x 75 cm ( Including Loading charges but excluding Seigniorage Charges)	Each	10	4
65	Shahabad stone slab (including loading charges but excluding Seigniorage charges)	sqm	160	4
66	Stone chips (at dump yard/Spoil)(including loading charges but excluding Seigniorage charges)	cum	150	4
67	Stone chips ( at quarry )(including loading charges but excluding Seigniorage charges)	cum	250	4
68	Structural steel angle / channel / beam / bars Note: As per Monthly rate fixed by Sub-Committee	tonne	31500	20.64
69	Structural steel plate / flats Note: As per Monthly rate fixed by Sub-Committee	tonne	34500	20.64
70	Super Plasticizer (Conplast RP-264 or equivalent )	kg	47	12.49
71	Synthetic Enamel paint 1st quality	Ltr	150	30.5
72	Synthetic adhesive ( Resin + Hardener )	Kg	155	30.49
73	Tar felt joint filler board 12 mm thick	sqm	310	30.5
74	Tar felt joint filler board 20 mm thick	sqm	500	30.5
75	Through stones 20 x 20 x 30 to 45 cm (including loading charges but excluding Seigniorage charges)	Each	15	4
76	Through stones 25 x 25 x 45 to 60 cm long (including loading charges but excluding Seigniorage charges)	Each	25	4
77	Through stones 30 x 30 x 65 to 75 cm long (including loading charges but excluding Seigniorage charges)	Each	35	4
78	Un-coursed rubble stones ( at dump yard /Spoil) (including loading charges but excluding Seigniorage charges)	cum	130	4
79	Un-coursed rubble stones ( at quarry )( including loading charges but excluding Seigniorage charges)	cum	220	4
80	Water proofing compound	kg	50	30.51
81	Welding electrodes 4 mm dia	Each	9	20.64
82	Wire brush	Each	30	16.01
83	Wire mesh 20 gauge	sqm	150	16
84	Zinc chromate red oxide primer paint	Ltr	80	30.51
85	inorganic zinc silicate	Ltr	400	30.5
86	solvent less coal tar epoxy paint	Ltr	150	18.13
87	Zinc phosphate primer	Ltr	140	30.5

SI No.	DESCRIPTION OF MATERIAL	UNIT	S.Rate for the year 2009-10	Total embedded Tax Rate (%)
88	Allkyd based iron oxide paint	Ltr	110	30.5
89	Cost of HDPE/ light black MS casing pipe( 150 mm dia )	Rm	480	20.64
<b>ADDITIONAL MATERIALS FOR GATES &amp; HOISTS</b>				
1	Alloy steel ( IS : 1570-carbon steel ) shafts	Kg	120	20.64
2	Alloy steel ( IS : 1570-stainless steel ) pins	Kg	235	20.64
3	Bolt / Nut / Washer ( hot dipped galvanized )	Kg	85	20.64
4	Bolt / Nut / Washer ( stainless steel )	Kg	190	20.64
5	Bronze/Aluminum alloy(IS:305)bearings/bushes	Kg	500	20.64
6	Cast iron blocks	Kg	50	20.63
7	Cast steel drums / gears	Kg	100	20.64
8	Cast steel pinions	Kg	145	20.64
9	Cast steel wheels / pulleys / hubs / rollers /Retainers	Kg	100	20.64
10	Chemical for de-greasing/ de-rusting/phosphate Coating	Ltr	90	12.5
11	Coal tar epoxy paint	Ltr	118	12.5
12	Forged steel hooks / shackles	Kg	160	20.64
13	MS pipe 200 / 300 mm dia	Kg	105	20.65
14	MS pipe 32 mm dia	Rm	120	20.64
15	MS pipe 25 mm dia	Rm	100	20.64
16	Rubber bottom seal ( IS : 11855 ) (100mmX14 mm)	Rm	500	30.5
17	Rubber side seal ( music note type Teflon claded ) ( IS : 11855 )	Rm	950	30.5
18	Rubber side seal ( music note type uncladed ) ( IS : 11855 )	Rm	750	30.5
19	Rubber side seal Z-type ( IS : 11855 )	Rm	1650	30.5
20	Rubber corner seal ( Teflon claded ) ( IS : 11855 )	Each	1950	30.5
21	Rubber corner seal ( un claded ) ( IS : 11855 )	Each	1750	30.5
22	Stainless steel plates / flats	Kg	150	20.64
23	Welding electrode 4 mm dia x 450 mm (radiographic low hydrogen )	Each	9	20.64
24	Welding electrode 4 mm dia x 450 mm (stainless steel )	Each	13.75	20.61
25	Wire rope 6x37 constn ( IS : 2266 )	Kg	100	20.64
26	Zinc	Kg	110	20.64
27	Zinc rich ( zinc content : 90 % ) epoxy primer	Ltr	350	30.5

**Revised Embedded Tax Rates for Capital cost of Machinery/Equipment  
(For the SoR 2009-10)**

<b>SI No</b>	<b>DESCRIPTION OF MACHINERY / EQUIPMENT</b>	<b>UNIT</b>	<b>S. Rate for 2009-10</b>	<b>Total embedded Tax Rate (%)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Agitator car / Transit mixer 2 cum (excluding tyres)	Each	<b>1,640,000</b>	-
	tyres and tubes 6 sets	Each	<b>60,000</b>	-
2	Air compressor 5 cmm electric	Each	<b>420,000</b>	-
3	Air compressor 7 cmm diesel	Each	<b>620,000</b>	-
4	Air compressor 7 cmm electric	Each	<b>600,000</b>	-
5	Air compressor 8.5 cmm diesel	Each	<b>720,000</b>	-
6	Air compressor 8.5 cmm electric	Each	<b>680,000</b>	-
7	Air compressor 15 cmm electric	Each	<b>900,000</b>	-
8	Angle Dozer 90 hp	Each	<b>3,700,000</b>	-
9	Batching plant 0.5 cum with accessories(6 Cum/hr)	Each	<b>925,000</b>	-
10	Batching plant 2 x 1.00 cum with accessories( 15 Cum/hr)	Each	<b>2,450,000</b>	-
11	Batching plant 2 x 1.50 cum with accessories( 50 Cum/hr)	Each	<b>3,100,000</b>	-
12	Bending machine	Each	<b>175,000</b>	-
13	Clamp shell and hoisting ropes	Each	<b>20,000</b>	-
14	Concrete bucket 1.5 cum	Each	<b>40,000</b>	-
15	Concrete hand mixer 45/30 ltr	Each	<b>10,000</b>	-
16	Concrete mixer 300/200 ltr(diesel)	Each	<b>110,000</b>	-
17	Concrete mixer 300/200 ltr ( electric )	Each	<b>100,000</b>	-
18	Concrete mixer 600/400 ltr(diesel)	Each	<b>185,000</b>	-
19	Concrete mixer 600/400 ltr ( electric )	Each	<b>155,000</b>	-
20	Concrete paver 100 Sqm / hr	Each	<b>1,650,000</b>	-
21	Convey mucker ( excluding tyres )	Each	<b>2,840,000</b>	-
	tyres and tubes 6 sets		<b>60,000</b>	-
22	Core drilling machine	Each	<b>770,000</b>	-
23	Diesel generating set 30 KVA	Each	<b>330,000</b>	-
24	Diesel generating set 50 KVA	Each	<b>430,000</b>	-
25	Diesel Loco 45 hp	Each	<b>1,200,000</b>	-
26	Dewatering pump 5 hp diesel	Each	<b>29,000</b>	-
27	Dewatering pump 5 hp electric	Each	<b>15,000</b>	-
28	Dewatering pump 10 hp diesel	Each	<b>45,000</b>	-
29	Dewatering pump 10 hp electric	Each	<b>23,000</b>	-
30	Dewatering pump 20 hp diesel	Each	<b>120,000</b>	-
31	Dewatering pump 20 hp electric	Each	<b>43,000</b>	-
32	Drifter	Each	<b>627,000</b>	-
33	Drilling jumbo ( excluding tyres )	Each	<b>915,000</b>	-

<b>SI No</b>	<b>DESCRIPTION OF MACHINERY / EQUIPMENT</b>	<b>UNIT</b>	<b>S. Rate for 2009-10</b>	<b>Total embedded Tax Rate (%)</b>
	tyres and tubes 6 sets		<b>60,000</b>	-
34	Dumper 4.5 cum ( excluding tyres )	Each	<b>840,000</b>	-
	tyres and tubes 6 sets		<b>60,000</b>	-
35	Geophysical Ele.resistivity meter	Each	<b>275,000</b>	-
36	Grouting pump	Each	<b>70,000</b>	-
37	Guniting / sand blasting equipment	Each	<b>189,000</b>	-
38	Ice plant with accessories 30 t / day	Each	<b>1,650,000</b>	-
39	Jack hammer	Each	<b>39,000</b>	-
40	Needle vibrator 40 mm petrol	Each	<b>13,500</b>	-
41	Needle vibrator 40 mm electric	Each	<b>15,500</b>	-
42	Needle vibrator 60 mm petrol	Each	<b>14,000</b>	-
43	Needle vibrator 60 mm electric	Each	<b>18,000</b>	-
44	Planing machine 4 m stroke	Each	<b>527,000</b>	-
45	Plate shearing machine up to 12 mm	Each	<b>281,000</b>	-
46	Pneumatic placer 0.5 cum	Each	<b>400,000</b>	-
47	Pneumatic tamper	Each	<b>48,500</b>	-
48	Pug cutting machine	Each	<b>13,000</b>	-
49	Pusher leg	Each	<b>30,000</b>	-
50	Road roller diesel 10 t	Each	<b>600,000</b>	-
51	Shovel 0.50 cum 75 hp	Each	<b>2,300,000</b>	-
52	Shovel 0.85 cum 110 hp	Each	<b>3,900,000</b>	-
53	Stationery derrick crane 5 t	Each	<b>450,000</b>	-
54	Tipper 5 cum ( excluding tyres )	Each	<b>1,140,000</b>	-
	tyres and tubes 6 sets		<b>60,000</b>	-
55	Tipping tub 1.5 cum	Each	<b>110,000</b>	-
56	Tower crane 5 tonne	Each	<b>5,500,000</b>	-
57	Transformer 250 KVA	Each	<b>290,000</b>	-
58	Truck 10 t ( excluding tyres )	Each	<b>840,000</b>	-
	tyres and tubes 6 sets		<b>60,000</b>	-
59	Truck mounted derrick crane 5 t ( excluding tyres )	Each	<b>1,440,000</b>	-
	tyres and tubes 6 sets		<b>60,000</b>	-
60	Upright drilling machine	Each	<b>40,000</b>	-
61	Ventilation fan 20 hp	Each	<b>125,000</b>	-
62	Vibratory pad foot roller 8 t	Each	<b>1,800,000</b>	-
63	Wagon drill	Each	<b>450,000</b>	-
64	Water tanker 8000 ltr (excluding tyres)	Each	<b>840,000</b>	-
	tyres and tubes 6 sets		<b>60,000</b>	-
65	Welding set	Each	<b>35,000</b>	-
66	Winch 35 hp electric	Each	<b>256,000</b>	-



SI No	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2009-10	Total embedded Tax Rate (%)
<b>ACCESSORIES TO MACHINERY / EQUIPMENT</b>				
1	Casing shoe bit	Each	7,500	-
2	Diamond core bit BX size	Each	9,000	-
3	Diamond core bit NX size	Each	14,000	-
4	Double tube core barrel	Each	10,000	-
5	Extension drill rod with coupling sleeve	Rm	1,500	-
6	Jack hammer drill rod 1.5 m	Each	3,000	-
7	Jack hammer drill rod 2.5 m	Each	5,000	-
8	Nozzle for Guniting / sand blasting gun	Each	500	-
9	Paving Cylinder	Each	20,000	-
10	Rails 30R ( 30 kg / m )	tonne	33,000	-
11	Reamer shell	Each	3,500	-
12	T.C. Cross bit 50 mm dia	Each	4,500	-
13	T.C. Cross bit 75 mm dia	Each	7,500	-
14	T.C. Cross bit 100 mm dia	Each	9,500	-
15	Tyres and Tubes for truck	Set	12,500	-
16	Wire rope 16 mm dia	Rm	150	-
17	Excavation of drain with Excavator	cum	20	0
<b>OTHER COSTS ON MATERIAL / MACHINERY / EQUIPMENT</b>				
1	Air hose 25 mm dia	Rm	100	20.64
2	Air hose 50 mm dia	Rm	200	20.64
3	Demand charges (HT-2B on power supply)	KVA /month	195	0
4	Diesel	Ltr	36	0
5	Electric power (HT-2B Category including taxes)	Kwhr	4	0
6	Excise duty on Gates / Hoist supplies	%	0%	
7	Insurance charges on machinery	% / annum	1%	0
8	Interest on capital cost	% / annum	12.00%	0
9	Lubricants	Ltr	182	20.64
10	Petrol	Ltr	50	0
11	Rivets	Kg	70	20.63
12	Road tax on transport vehicles	Rs./annum	As per RTA	
13	Shalimatic sealing compound	Kg	60	12.51
14	Shutter oil	Ltr	45	16.01
15	Structural steel fabrication	Kg	12	0

SI No	DESCRIPTION OF MACHINERY / EQUIPMENT	UNIT	S. Rate for 2009-10	Total embedded Tax Rate (%)
16	Sundries ( Lump sum for un quantified inputs )	LS	30	0
17	Water hose ( pressure ) 20 mm dia	Rm	150	20.64
18	Steel wedges	LS	10	20.63
19	Elbows / Nipple / Plugs etc.,	LS	10	20.63
20	Soldering materials	LS	10	20.63
21	Steam circulation arrangement	LS	10	20.63
22	Fuel charges ( gas for heating )	LS	10	4
23	Vulcanizing materials	LS	10	0
24	Other accessories / controls / junctions	LS	10	0
25	Miscellaneous fittings / switches etc	LS	10	0
26	Anchors / supports for cables / lights	LS	10	0
27	Civil works for foundations / pedestals / duct etc	LS	10	0
28	Gas cutting set ( 2 No's 15 m hose and nozzle unit)	Each	9,500	20.64
29	Grease	Kg	135	20.63
30	Welding holder set ( cable / holder / gloves / mask etc )	Each	4,400	20.64
31	Use rate of ropes	LS	100	0
	<b><u>MATERIALS FOR GATES AND HOISTS</u></b>			
1	Worm reducers	Each	150,000	30.5
2	Electric motor 20 hp(Double Shaft)	Each	80,000	30.5
3	Electric motor 17.5 hp(Double Shaft)	Each	55,000	30.5
4	Electric motor 12.5 hp(Double Shaft)	Each	45,000	30.5
5	Electric motor 5 hp(Double Shaft)	Each	25,000	30.5
6	Electric motor 3 hp (Double Shaft)	Each	17,000	30.5
7	Electric motor 2 hp (Double Shaft)	Each	8,500	30.5
8	Floating shaft 300 mm dia	Kg	120	30.49
9	Manual operating system	Each	20,000	30.5
10	Gate position indicator	Each	115,000	30.5
11	Ele-magnetic brake	Each	21,000	30.5
12	Electric cable / switch / control panel etc	LS	25,000	20.64
13	Wire rope sockets	Each	2,500	20.64

**Revised embedded tax rates for the Materials other than covered under Irrigation  
Work items for the SoR 2009 - 10**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2009-10</b>	<b>Total embedded Tax Rate (%)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
M-002	Quarried stone 150 - 200 mm size for Hand Broken	Cum	<b>120</b>	4
M-003	Boulder with minimum size of 300 mm for Pitching (Excluding Seigniorage)	Cum	<b>140</b>	4
M-004	Coarse sand for filling (Excluding Seigniorage)	Cum	<b>100</b>	4
M-005	Coarse sand for mortar(Excluding Seigniorage)	Cum	<b>120</b>	4
M-006	Fine Sand (Excluding Seigniorage charges)	Cum	<b>250</b>	4
M-007	Murrum (Excluding Seigniorage charges)	Cum	<b>65</b>	0
M-008	Gravel/Quarry spall(Excluding Seigniorage Charges)	Cum	<b>65</b>	0
M-009	Granular Material or hard Murrum for GSB works	Cum	<b>65</b>	0
M-010	Granular Material or hard Murrum for GSB works(Excluding Seigniorage charges)	Cum	<b>65</b>	0
M-011	Fly ash conforming to IS: 3812 ( Part II & I)	Cum	<b>40</b>	16
	For item No.M-012 to M-055 the note shall be as follows			
	1) The rates mentioned are exclusive of Seigniorage charges but inclusive of blasting charges of Rs.70/cum and 25% machine crushing charges. However, if the metal is obtained by hand broken, machine crushing charges shall be deducted.			
	2) If the material is obtained by hand broken from surface boulders/canal spoil, the blasting and crushing charges shall be deducted.			
	3)The material shall be HB Stone of Granite, Dolomite, Dolerite and Trap.(Quartzite and Basalt with aggregate impact of less than 20)			
M-012	Filter media/Filter Material as per Table 300-3 (MoRT&H Specification) (excluding Seigniorage Charges)	Cum	<b>300</b>	4

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2009-10</b>	<b>Total embedded Tax Rate (%)</b>
M-013	Close graded Granular sub-base Material 53 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	<b>600</b>	-
M-014	Close graded Granular sub-base Material 37.5 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	<b>620</b>	-
M-015	Close graded Granular sub-base Material 26.5 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	<b>640</b>	-
M-016	Close graded Granular sub-base Material 9.5 mm to 4.75 mm (excluding Seigniorage Charges)	Cum	<b>540</b>	-
M-017	Close graded Granular sub-base Material 9.5 mm to 2.36 mm (excluding Seigniorage Charges)	Cum	<b>530</b>	-
M-018	Close graded Granular sub-base Material 4.75 mm to 2.36 mm (excluding Seigniorage Charges)	Cum	<b>470</b>	4
M-019	Close graded Granular sub-base Material 4.75mm to 75 micron mm(excluding Seigniorage Charges)	cum	<b>450</b>	4
M-020	Close graded Granular sub-base Material 2.36 mm (excluding Seigniorage Charges)	Cum	<b>450</b>	4
M-021	Stone crusher dust finer than 3mm with not more than10% passing 0.075 sieve. (excluding Seigniorage Charges)	Cum	<b>250</b>	4
M-022	Coarse graded Granular sub-base Material 2.36 mm & below (excluding Seigniorage Charges)	Cum	<b>410</b>	4
M-023	Coarse graded Granular sub-base Material 4.75mm to 75 micron mm (excluding Seigniorage Charges)	cum	<b>440</b>	4
M-024	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm (excluding Seigniorage Charges)	Cum	<b>440</b>	4
M-025	Coarse graded Granular sub-base Material 9.5 mm to 4.75 mm (excluding Seigniorage Charges)	Cum	<b>515</b>	-
M-026	Coarse graded Granular sub-base Material 26.5 mm to 4.75 mm (excluding Seigniorage Charges)	Cum	<b>560</b>	-
M-027	Coarse graded Granular sub-base Material 26.5 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	<b>610</b>	-
M-028	Coarse graded Granular sub-base Material 37.5 mm to 9.5 mm (excluding Seigniorage Charges)	Cum	<b>620</b>	-
M-029	Coarse graded Granular sub-base Material 53 mm to 26.5mm (excluding Seigniorage Charges)	Cum	<b>760</b>	-
M-030	Aggregates below 5.6 mm(excluding Seiniorage Charges)	Cum	<b>500</b>	4

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>S. Rate for 2009-10</b>	<b>Total embedded Tax Rate (%)</b>
M-031	Aggregates 22.4 mm to 2.36 mm (excluding Seiniorage Charges)	Cum	<b>800</b>	-
M-032	Aggregates 22.4 mm to 5.6 mm (excluding Seiniorage Charges)	Cum	<b>900</b>	-
M-033	Aggregates 45 mm to 2.8 mm (excluding Seiniorage Charges)	Cum	<b>625</b>	-
M-034	Aggregates 45 mm to 22.4 mm (excluding Seiniorage Charges)	Cum	<b>970</b>	-
M-035	Aggregates 53 mm to 2.8 mm (excluding Seiniorage Charges)	Cum	<b>800</b>	-
M-036	Aggregates 53 mm to 22.4 mm (excluding Seiniorage Charges)	Cum	<b>760</b>	-
M-037	Aggregates 63 mm to 2.8 mm (excluding Seiniorage Charges)	Cum	<b>620</b>	-
M-038	Aggregates 63 mm to 45 mm (excluding Seiniorage Charges)	Cum	<b>590</b>	-
M-039	Aggregates 90 mm to 45 mm (excluding Seiniorage Charges)	Cum	<b>555</b>	-
M-040	Aggregates 10 mm to 5 mm (excluding Seiniorage Charges)	Cum	<b>745</b>	-
M-041	Aggregates 11.2 mm to 0.09 mm (excluding Seiniorage Charges)	Cum	<b>625</b>	-
M-042	Aggregates 13.2 mm to 0.09 mm(excluding Seiniorage Charges)	Cum	<b>700</b>	-
M-043	Aggregates 13.2 mm to 5.6 mm (excluding Seiniorage Charges)	Cum	<b>800</b>	-
M-044	Aggregates 13.2 mm to 10 mm(excluding Seiniorage Charges)	Cum	<b>890</b>	-
M-045	Aggregates 20 mm to 10 mm (excluding Seiniorage Charges)	Cum	<b>1020</b>	-
M-046	Aggregates 25 mm to 10 mm (excluding Seiniorage Charges)	Cum	<b>980</b>	-
M-047	Aggregates 19 mm to 6 mm (excluding Seiniorage Charges)	Cum	<b>900</b>	-
M-048	Aggregates 37.5 mm to 19 mm(excluding Seiniorage Charges)	Cum	<b>955</b>	-
M-049	Aggregates 37.5 mm to 25 mm(excluding Seiniorage Charges)	Cum	<b>940</b>	-

Sl. No.	Description	Unit	S. Rate for 2009-10	Total embedded Tax Rate (%)
M-050	Aggregates 6 mm nominal size(excluding Seiniorage Charges)	Cum	<b>650</b>	-
M-051	Aggregates 10 mm nominal size(excluding Seiniorage Charges)	Cum	<b>815</b>	-
M-052	Aggregates 13.2/12.5 mm nominal size(excluding Seiniorage Charges)	Cum	<b>975</b>	-
M-053	Aggregates 20 mm nominal size(excluding Seiniorage Charges)	Cum	<b>1170</b>	-
M-054	Aggregates 25 mm nominal size(excluding Seiniorage Charges)	Cum	<b>1150</b>	-
M-055	Aggregates 40 mm nominal size(excluding Seiniorage Charges)	Cum	<b>740</b>	-
M-056	AC pipe 100 mm dia	Metre	<b>Rate as per PH item</b>	
M-057	Acrylic polymer bonding coat	Litre	<b>350</b>	20.64
M-058	Aluminum Paint	Litre	<b>255</b>	30.49
M-059	Aluminum alloy plate 2mm Thick	Sqm	<b>260</b>	20.64
M-060	Aluminum alloy/Galvanized steel	Tonne	<b>48000</b>	20.64
M-061	Aluminum sheeting fixed with encapsulated lens type reflective sheeting including 2% towards lettering, cost of angle iron, cost of drilling holes, nuts, bolts etc. and signs as applicable	Sqm	<b>700</b>	20.64
M-062	Aluminum studs 100 x 100 mm fitted with lens	No's	<b>3000</b>	20.64
M-063	Barbed wire	Kg	<b>59</b>	20.63
M-064	Bearing (Cost of parts)	No's	<b>430</b>	20.64
M-065	Bearing (Cast steel rocker bearing assembly of 250 tonne )	No's	<b>600</b>	20.64
M-066	Bearing (Elastomeric bearing assembly consisting of 7 internal layers of elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanization,)	Cm3	<b>0.50</b>	21.95
M-067	Bearing (Forged steel roller bearing of 250 tonne)	No's		
M-068	Bearing (Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/fabricated structural steel assemblies duly painted with all components	No's		
M-069	Bearing (PTFE sliding plate bearing assembly of 80 tonne)	No's		
M-070	Bearing (Supply of sliding plate bearing of 80 tonne)	No's		

Sl. No.	Description	Unit	S. Rate for 2009-10	Total embedded Tax Rate (%)
M-071	Bentonite	Kg	5	12.61
M-072	Binding wire	Kg	50	20.63
M-073	Bitumen ( Cationic Emulsion )	Tonne	<b>As per rates fixed by R&amp;B Dept based on refinery rates</b>	
M-074	Bitumen (60-70 grade) (Excluding taxes)	Tonne	<b>22480</b>	0
M-075	Bitumen (80-100 grade ) (Excluding taxes)	Tonne	<b>21680</b>	0
M-076	Bitumen (Cutback )	Tonne	<b>As per rates fixed by R&amp;B Dept based on refinery rates</b>	
M-077	Bitumen (emulsion) (Excluding taxes)	Tonne	<b>23996</b>	0
M-078	Bitumen (modified graded)	Tonne	<b>As per rates fixed by R&amp;B Dept based on refinery rates</b>	
M-079	Brick	Each	<b>As per Building SSR</b>	-
M-080	C.I. shoes for the pile	Kg	<b>40</b>	20.63
M-081	Cement	Tonne	<b>4300</b>	30.5
M-082	Cold twisted bars (HYSD/TMT Bars)	Tonne	<b>31000</b>	12.5
M-083	Collar for joints 300 mm dia	No's	<b>123</b>	30.5
M-084	Compressible Fibre Board (20mm thick)	Sqm	<b>400</b>	12.5
M-085	Connectors/ Staples	Each	<b>60</b>	30.52
M-086	Copper Plate (12m long x 250mmwide)	Kg	<b>370</b>	30.5
M-087	Corrosion resistant Structural steel	Tonne	<b>50000</b>	20.64
M-088	Corrugated sheet, 3 mm thick, "Tie" beam section railing	Kg	<b>150</b>	20.64
M-089	Credit for excavated rock found suitable for use	Cum	<b>100</b>	4
M-090	Curing compound	Liter	<b>90</b>	30.49
M-091	Delineators from ISI certified firm as per the standard drawing given in IRC - 79	Each	<b>As per local competitive quotations</b>	

Sl. No.	Description	Unit	S. Rate for 2009-10	Total embedded Tax Rate (%)
M-092	Earth Cost or compensation for earth taken from private land (Excluding Seigniorage Charges)	Cum	25	0
M-093	Elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II),	Metre	As per local competitive quotations	
M-094	Electric Detonators @ 1 detonator for 1/2 gelatin stick of 125 gms each	100 no's	Rate as per item No. 21 of Irrigation	
M-095	Epoxy compound with accessories for preparing epoxy mortar	Kg	250	30.5
M-096	Epoxy mortar	Kg	80	30.51
M-097	Epoxy primer	Kg	460	30.5
M-098	Epoxy resin-hardener mix for prime coat	Kg	480	30.5
M-099	Flag of red color cloth 600 x 600 mm	Each	20	4
M-100	Flowering Plants	Each	25	3.99
M-101	Galvanized MS flat clamp	No's	150	20.64
M-102	Galvanized steel wire crates of mesh size 100 mm x 100 mm woven with 4mm dia. GI wire in rolls of required size.	Sqm	130	20.64
M-103	Galvanized structural steel plate 200 mm wide, 6 mm thick, 24 m long	Kg	700	20.64
M-104	Gelatin 80%	Kg	500	30.5
M-105	Geo grids	Sqm	As per local competitive quotations	
M-106	(a)Geo membrane 500 micron thick	Sqm	rate covered from sl.no.52 to 54 of material items of Irrigation	
	(b) Geo membrane 750 micron thick	Sqm		
	(c) Geo membrane 1000 micron thick	Sqm		
M-107	Geo nets	Sqm	As per local competitive quotations	
M-108	(a)Geo textile 160 gsm	Sqm	rate covered from sl.no.29 to 31 of material items of Irrigation	
	(b) Geo textile 200 gsm	Sqm		
	(c) Geo textile 250 gsm	Sqm		
M-109	Geo textile filter fabric	Sqm	As per local competitive quotations	



Sl. No.	Description	Unit	S. Rate for 2009-10	Total embedded Tax Rate (%)
M-110	GI bolt 10 mm Dia	No's	16	30.51
M-111	Grouting pump with agitator	Hour	<b>Rate covered in Item No.36 of hire charges of machinery of Water Resources work items</b>	
M-112	Grass (Doob)	Kg	3	12.36
M-113	Grass (Fine)	Kg	4	0
M-114	HDPE pipes 75mm dia	Metre	<b>Rate as per PH items</b>	
M-115	HDPE pipes 90mm dia	Metre	<b>Rate as per PH items</b>	
M-116	Hedge plants	Each	<b>Rate as per local competitive quotations</b>	
M-117	Helical pipes 600mm diameter	Metre		
M-118	Hot applied thermoplastic compound	Litre		
M-119	HTS strand	Tonne		
M-120	Joint Sealant Compound	Kg		
M-121	Jute netting, open weave, 2.5 cm square opening for seeding and Mulching	Sqm	65	23.74
M-122	LDO for steam curing	Litre	45	30.51
M-123	M.S. Clamps	Kg	150	30.5
M-124	M.S. Clamps	Kg	600	20.64
M-125	M.S. shoes @ 35 Kg per pile of 15 m	Kg	<b>Rate as per local competitive quotations</b>	
M-126	Mild Steel bars	Tonne	31000	20.64
M-127	Modular strip/box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and up to 140mm assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	<b>Rate as per local competitive quotations</b>	

Sl. No.	Description	Unit	S. Rate for 2009-10	Total embedded Tax Rate (%)
M-128	Modular strip/box seal expansion joint catering to a horizontal movement beyond 140mm and up to 210mm box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorized representative	Metre	<b>Rate as per local competitive quotations</b>	
M-129	Nipples 12mm	No's	<b>12</b>	20.6
M-130	Nuts and bolts	Kg	<b>60</b>	20.65
M-131	Paint	Litre	<b>180</b>	30.5
M-132	Pavement Marking Paint	Litre	<b>Rate as per local competitive quotations</b>	
M-133	Paving Fabric	Sqm		
M-134	Perforated geo synthetic pipe 150 mm dia	Metre		
M-135	Perforated pipe of cement concrete, internal dia 100 mm	Metre		
M-136	Pesticide	Kg	<b>100</b>	0
M-137	R.C.C Pipes 200 mm dia, 2.5 m long for drainage	Metre	<b>300</b>	0
M-138	Plastic sheath, 1.25 mm thick for dowel bars	Sqm	<b>Rate as per local competitive quotations</b>	
M-139	Plastic tubes 50 cm dia , 1.2 m high	No's		
M-140	Polymer braids	Metre		
M-141	Pre moulded Joint filler, 25 mm thick for expansion joint	Sqm		
M-142	Pre-coated stone chips of 13.2 mm nominal size	Cum	<b>190</b>	4
M-143	Preformed continuous chloroprene elastomer or closed cell foam sealing element with high tear strength, vulcanized in a single operation for the full length of a joint to ensure water tightness.	Meter	<b>Rate as per local competitive quotations</b>	
M-144	Pre-moulded asphalt filler board	Sqm	<b>40</b>	0
M-145	Pre-packed cement based polymer concrete of strength 45 Mpa at 28 days	Kg	<b>Rate as per local competitive quotations</b>	
M-146	Sealant Primer	Kg	<b>90</b>	30.49
M-147	Quick setting compound	Kg	<b>320</b>	30.5
M-148	Random Rubble Stone (Including Loading Charges but excluding Seignorage Charges)	Cum	<b>200</b>	4

Sl. No.	Description	Unit	S. Rate for 2009-10	Total embedded Tax Rate (%)
M-149	RCC Pipe NP 4 heavy duty non pressure pipe 1000mm dia	Metre	<b>Rate as per PH items</b>	
M-150	RCC Pipe NP 4 heavy duty non pressure pipe 1200 mm dia	Metre		
M-151	RCC Pipe NP 4 heavy duty non pressure pipe 300 mm dia	Metre		
M-152	Reflectorising glass beads	Kg	<b>Rate as per local competitive quotations</b>	
M-153	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Copper Strips)	Metre		
M-154	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Galvanized carbon steel strips)	Metre		
M-155	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Glass reinforced polymer/ fiber reinforced polymer/polymeric strips)	Metre		
M-156	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Stainless steel strips)	Metre	<b>Rate as per local competitive quotations</b>	
M-157	Reinforcement strips 60 mm wide 5 mm thick as per clause 3102. (Aluminum strips)	Metre		
M-158	Rivets	Each	<b>3</b>	20.97
M-159	Sand bags (Cost of sand and Empty cement bag)	Per bag	<b>13</b>	4
M-160	Sapling 2 m high 25 mm dia	Each	<b>Rate as per local competitive</b>	
M-161	Scrap tyres of size 900 x 20	No's	<b>50</b>	20.63
M-162	Seeds(Grass)	Kg	<b>12</b>	0
M-163	Cost of Selected earth (Excluding Seignorage Charges)	Cum	<b>60</b>	0

Sl. No.	Description	Unit	S. Rate for 2009-10	Total embedded Tax Rate (%)
M-164	Separation Membrane of impermeable plastic sheeting 125 micron thick	Sqm	<b>Rate as per local competitive quotations</b>	
M-165	Sheathing duct	Metre		
M-166	Shrubs	Each	<b>10</b>	0
M-167	Sludge / Farm yard manure @ 0.18 cum per 100 sqm at site of work for turfing	Cum	<b>Rate as per local competitive quotations</b>	
M-168	Sodium vapour lamp	Each	<b>1600</b>	4
M-169	Square Rubble Coursed Stone(Including Loading Charges but excluding Seigniorage charges)	Cum	<b>1600</b>	4
M-170	Steel circular hollow pole of standard specification for street lighting to mount light at 5 m height above deck level	Each	<b>Rate to be obtained from Electricity/Municipal Departments</b>	
M-171	Steel circular hollow pole of standard specification for street lighting to mount light at 9 m height above road level	Each		
M-172	Steel drum 300 mm dia 1.2 m high/empty bitumen drum	No's	<b>700</b>	0
M-173	Steel helmet and cushion block on top of pile head during driving.	Kg	<b>1500</b>	0
M-174	Steel pipe 25 mm external dia as per IS:1239	Metre	<b>200</b>	20.64
M-175	Steel pipe 50 mm external dia as per IS:1239	Metre	<b>400</b>	20.64
M-176	Steel wire rope 20 mm	Kg	<b>130</b>	20.64
M-177	Steel wire rope 40 mm	Kg	<b>150</b>	20.64
M-178	Strip seal expansion joint	Metre	<b>Rate as per local competitive quotations</b>	
M-179	Structural Steel(HYSD/TMT bars)	Tonne	<b>31000</b>	20.64
M-180	Super plasticizer admixture IS marked as per 9103-1999	Kg	<b>Rate as per item no.70 of Material rates of Irrigation</b>	
M-181	Synthetic Geo grids as per clause 3102.8 and approved design and specifications.	Sqm	<b>Rate as per local competitive quotations</b>	
M-182	Through and bond stone	Each		

Sl. No.	Description	Unit	S. Rate for 2009-10	Total embedded Tax Rate (%)
	(a) 20X20x30 to 45 cm long	Each	<b>Rates covered from sl.no.75 to 77 of material items of irrigation</b>	
	Through and bond stone			
	(b) 25X25x45 to 60 cm long			
	Through and bond stone	Each		
	(c) 30X30x65 to 75 cm long			
M-183	Tie rods 20mm diameter	No's	<b>30</b>	30.49
M-184	Tiles size 300 x 300 mm and 25 mm thick	Each	<b>As per Building SSR</b>	
M-185	Timber	Cum		
M-186	Traffic cones with 150 mm reflective sleeve	No's	<b>Rate as per local competitive quotations</b>	
M-187	Tube anchorage set complete with bearing plate, permanent wedges etc	No's		
M-188	Un slaked lime	Tonne	<b>1800</b>	4
M-189	Water charges	KiloLitre	<b>50</b>	4
M-190	Water based cement paint	Litre	<b>80</b>	16
M-191	Welded steel wire fabric	Kg	<b>105</b>	20.65
M-192	Wire mesh 50mm x 50mm size of 3mm wire	Kg	<b>175</b>	20.64
M-193	Wooden ballies 2" Dia for bracing	Each	<b>As per Building SSR</b>	
M-194	Wooden ballies 8" Dia and 9 m long	Each		
M-195	Wooden packing	Cum	<b>900</b>	20.64
M-196	Wooden staff for fastening of flag 25 mm dia, one m long	Each	<b>50</b>	16
Item 8.3	Printing new letter and figures of any shade (ii) English Roman	per cm height per letter	<b>1</b>	0
Item 8.8	Painting Two Coats on New Concrete Surfaces	Sqm	<b>As per Building SSR</b>	
Item 8.9	Painting angle iron post Two Coats	Sqm	<b>As per Building SSR</b>	

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