Indian Railways Unified Standard Schedule Of Rates (Formation Works, Bridge Works and P.Way Works)

"Basic Input Data Sheet"
for Rates Of Basic Items Used For 'Analysis of Rates'

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
	Labour:			
1	Draftsman / Surveyor	Day	0001	~~1,500.00~~
2	Mate (Skilled)	Day	0002	~~617.00~~
3	Mate (Semi skilled)	Day	0003	~~512.00~~
4	Mason 1st class (Skilled)	Day	0004	~~617.00~~
5	Mason 2nd class (Semi-skilled)	Day	0005	~~512.00~~
6	Carpenter (Skilled)	Day	0006	~~617.00~~
7	Carpenter (Semi skilled)	Day	0007	~~512.00~~
8	Blacksmith - 1st Class (Skilled)	Day	0008	~~617.00~~
9	Blacksmith - 2nd Class (Semi-skilled)	Day	0009	~~512.00~~
10	Fitter Grade - 1 (Skilled)	Day	0010	~~617.00~~
11	Fitter Grade - 2 (Semi-skilled)	Day	0011	~~512.00~~
12	Painter (Skilled)	Day	0012	~~617.00~~
13	Electrician (Skilled)	Day	0013	~~617.00~~
14	Rock Excavator (Semi skilled)	Day	0014	~~512.00~~
15	Rock Breaker (Semi skilled)	Day	0015	~~512.00~~
16	Rock Hole Driller (Semi skilled)	Day	0016	~~512.00~~
17	Stone Chiseller (Semi skilled)	Day	0017	~~512.00~~
18	Highly Skilled labour	Day	0018	~~724.00~~
19	Labour Skilled (Machine Operator/Welder/Machinist/Driver etc.)	Day	0019	~~617.00~~
20	Labour Unskilled	Day	0020	~~437.00~~
21	Helper (Semi-skilled)	Day	0021	~~512.00~~
22	Bandhani (Semi skilled)	Day	0022	~~512.00~~
23	Bhisti (Semi skilled)	Day	0023	~~512.00~~
24	Beldar (Semi Skilled)	Day	0024	~~512.00~~
25	Beldar (Un skilled)	Day	0025	~~437.00~~
26	Coolie (Un skilled)	Day	0026	~~437.00~~
27	Mistry (Semi skilled)	Day	0027	~~512.00~~
28	Grinderman (Skilled)	Day	0028	~~617.00~~
29	Welder (Skilled)	Day	0029	~~617.00~~
30	Chipper (Skilled)	Day	0030	~~617.00~~
31	Luter (Skilled)	Day	0031	~~617.00~~
32	Hammer man (Semi-skilled)	Day	0032	~~512.00~~
33	Look Out Man (Un-skilled)	Day	0033	~~437.00~~
34	Waterman (Un-skilled)	Day	0034	~~437.00~~
35	Patrolman (Semi-skilled)	Day	0035	~~512.00~~
36	Head Trolley man (Skilled)	Day	0036	~~617.00~~
37	Trolly man (Semi-skilled)	Day	0037	~~512.00~~
38	Caution man (Semi-skilled)	Day	0038	~~512.00~~
39	Chowkidar (Semi skilled)	Day	0039	~~512.00~~
40	Machinist (operator) (Skilled)	Day	0040	~~617.00~~
41	Machine Operator (Machine) (Skilled)	Day	0041	~~617.00~~
42	Track Machine Maintainer (Semi skilled)	Day	0042	~~512.00~~
43	USFD Operator (With approved Certificate)	Day	0043	~~1,500.00~~
	Machinery, Hire Charges and Materials :			
44	On Road Price of Crawler mounted 3D Hydraulic Excavator 148 HP (1.0 Cum Bucket Capacity) - BE220	Each	0044	~~6,600,000.00~~
45	On Road Price of Crawler mounted Hydraulic Excavator 260 HP (2.5 cum bucket) Komatsu PC300LC	Each	0045	~~11,500,000.00~~
46	On Road Price of Wheel loader 3.1 Cum bucket capacity 165 HP - JCB 455ZX	Each	0046	~~7,000,000.00~~
47	On Road Price of Motor grader 158 HP (3.67 metre blade) BG605I	Each	0047	~~9,700,000.00~~
48	On Road Price of Dozer 180 HP capacity BEML BD65-1	Each	0048	~~12,800,000.00~~
49	On Road Price of JCB 3DX Plus Backhoe Loader 74 HP	Each	0049	~~2,400,000.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
50	On Road Price of Truck with long trailers Payload 20T (without POL)		0050	~~4,500,000.00~~
51	On Road Price of Tipper 12 Cum Capacity Tata Signa 1923.K	Each	0051	~~3,100,000.00~~
52	On Road Price of Truck - 9 tonne	Each	0052	~~1,500,000.00~~
53	On Road Price of 1.5 tonne Pickup Truck	Each	0053	~~800,000.00~~
54	Hire charges of Vibratory Hammer attachment of Hydraulic Excavator for driving Sheet pile driving	Day	0054	~~700.00~~
55	Hire charges of Water tanker 5 to 6 KL capacity	Hour	0055	~~150.00~~
56	Hire Charges of Vibratory roller 8 to 10 tonne	Hour	0056	~~1,000.00~~
57	Hire charges of Road Roller 8 to10 tonnes	Hour	0057	~~500.00~~
58	Hire Charges of Slope Vibrator to be attached to Hydralic Excavator for rolling of slope surfaces of embankment.	Day	0058	~~2,000.00~~
59	Hire Charges of Wet Mix Plant 60 TPH Capacity	Hour	0059	~~950.00~~
60	Hire charges of Derrick Monkey Rope	Day	0060	~~750.00~~
61	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories etc. and shifting at site including maintenance and cost of fuel / lubricants & operators for running	Day	0061	~~3,000.00~~
62	Hire and running charges of Hydraulic Piling Rig with power unit etc. including complete accessories and shifting at site	Day	0062	~~35,000.00~~
63	Hire and running charges of Bentonite pump	Day	0063	~~3,000.00~~
64	Hire charges of air compressor 250 cfm capacity with two leads for pneumatic cutters / hammers	Day	0064	~~1,600.00~~
65	Hire Charges of Air compressor 500 Cfm for fabrication works	Day	0065	~~1,700.00~~
66	Mobile Concrete Batching/Mixing Plant @ 20 cum/hour	Hour	0066	~~1,400.00~~
67	Concrete Pump	Hour	0067	~~900.00~~
68	Hire charges of Transit Mixer 6 cum capacity	Hour	0068	~~2,140.00~~
69	Hire charges of Concrete Mixer 0.25 to 0.40 cubic metre capacity	Day	0069	~~800.00~~
70	Hire charges of Generator 2.5 KVA (without POL)	Day	0070	~~300.00~~
71	Hire charges of Generator 5 KVA (without POL)	Day	0071	~~500.00~~
72	Hire charges of 7.5 KVA Generator	Day	0072	~~1,000.00~~
73	Hire charges of 25 KVA Generator	Day	0073	~~1,500.00~~
74	Hire charges for 3 phase generator (60 KVA)	Day	0074	~~2,000.00~~
75	Hire Charges of Generator 100 KVA/125 KVA	Day	0075	~~2,500.00~~
76	Hire charges of Generator of 250 KVA capacity	Day	0076	~~3,000.00~~
77	Hire charges for Power pack with 200 litres capacity tank with 10 HP 3 phase induction mortar, inlet, out let valves pressure gauges, hose pipes etc for pushing arrangement including consumables, tools, plants, operator, and transportation to site of work	Day	0077	~~5,265.00~~
78	Hire charges of Pin Vibrator	Day	0078	~~350.00~~
79	Hire charges of surface vibrator	Day	0079	~~300.00~~
80	Hire charges for tractor with trolley	Day	0080	~~1,200.00~~
81	Hire charges of tractor with Ripper arrangement	Day	0081	~~1,200.00~~
82	Hire charges of Power driven hammer drill	Day	0082	~~1,500.00~~
83	Hire charges of Vibratory Hand Rammers / compactors	Day	0083	~~450.00~~
84	Hire charges of cement / epoxy slurry injection machine	Day	0084	~~600.00~~
85	Hire charges of pump set of capacity 4000 litre per hour	Day	0085	~~900.00~~
86	Hire charges of 10MT crane with Grab Bucket of 0.75 cum capacity and accessories	Day	0086	~~7,000.00~~
87	Hire and running charges of light crane 5 MT capacity	Day	0087	~~4,000.00~~
88	Hire charges of Crane 10T capacity	Day	0088	~~5,000.00~~
89	Hire charges of 12 MT Hydra	Day	0089	~~5,000.00~~
90	Hire charges of 12 MT crane and accessories	Day	0090	~~6,000.00~~
91	Hiring charges of Crane 20 MT capacity	Day	0091	~~8,000.00~~
92	Hiring and running charges of Crane 30 MT capacity including maintenance and cost of fuel / lubricants & operators for running	Day	0092	~~16,000.00~~
93	Hiring charges of Crane 50 MT capacity	Day	0093	~~20,000.00~~
94	Hiring charges of 80MT capacity crane	Day	0094	~~35,000.00~~
95	Hiring charges of 100 MT capacity crane	Day	0095	~~50,000.00~~
96	Hiring charges of 150 MT capacity crane	Day	0096	~~100,000.00~~
97	Hiring charges of 200 MT capacity crane	Day	0097	~~175,000.00~~
98	Hiring charges of 250 MT capacity crane	Day	0098	~~225,000.00~~
99	Hiring charges of 300 MT capacity crane	Day	0099	~~250,000.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
100	Hiring charges of 400 MT capacity crane	Day	0100	~~350,000.00~~
101	Hiring of trailer truck of 20 MT capacity	Day	0101	~~18,000.00~~
102	Hire charges of Hydraulic jack 8/10 Tonnes capacity	Day	0102	~~300.00~~
103	Hire charges for jack of 40 MT lifting capacity	Day	0103	~~800.00~~
104	Hire charges for jack of 100 MT lifting capacity	Day	0104	~~2,000.00~~
105	Hire charges for 200 MT capacity Jack	Day	0105	~~1,500.00~~
106	Hire charges of Camber Jacks etc.	Day	0106	~~500.00~~
107	Hire charges of stressing jack with pump for stressing of HTS cables in PSC girders/slabs.	Day	0107	~~11,500.00~~
108	Hire charges of grout pump with agitator and accessories	Hour	0108	~~500.00~~
109	Pulse Echo Test (PET) for integrity testing of piles with contractor's men, materials and machines. The rate includes cost of Inspection of site, preparation of pile head and any other unforeseen cost required for the test, submission of reports in triplicate as per satisfaction of the Engineer in Charge at site.	Each	0109	~~2,000.00~~
110	Hire Charges of Hydraulic Jack of 50 T capacity for lateral load testing of piles	Day	0110	~~2,000.00~~
111	Hire Charges of Hydraulic Jack of 100 T capacity for lateral load testing of piles	Day	0111	~~5,000.00~~
112	Hire charges for OEW flat jack of 100 T capacity for longitudinal slewing of girder from both sides	Each	0112	~~2,500.00~~
113	Hire Charges of CNC gas cutting Machine	Day	0113	~~4,500.00~~
114	Hire Charges of CNC drilling machine - 14 to 50mm dia, 100mm thickness, set of spindle - 2 sets, accuracy +/- 0.03mm.	Day	0114	~~14,000.00~~
115	Hire Charges of MMAW machine (Manual Metal Arc Welding Machine) - 80 to 500 Amperes.	Day	0115	~~25.00~~
116	Hire Charges of SAW machine - Tornado Make, current range - 150 to 1250 Amperes.	Day	0116	~~7,500.00~~
117	Hire Charges of Angle grinder - 230mm dia. Disc, 6000 rpm, CP make.	Day	0117	~~11.00~~
118	Hire Charges of Impact wrench - 32mm dia.Boit, CP Make.	Day	0118	~~25.00~~
119	Hire Charges of Torque wrench - 150 kgf-m, Mekaster Make.	Day	0119	~~10.00~~
120	Hire Charges of Power hack saw machine (Angle)	Day	0120	~~25.00~~
121	Hire Charges of CNC end milling machine - (Horizonral Spindle), (1). Longitudinal Traverse of table (X-Axis) - 1500mm (2). Vertical Axis (Y-Axis) - 1000mm, (3).RAM Column Traverses (Z-Axis) - 500mm.	Day	0121	~~17,000.00~~
122	Hire Charges of EOT, 10 ton Capacity, Reva Make	Day	0122	~~1,500.00~~
123	Hire charges of Road Cum Rail vehicle for transporting Flash Butt Welding plant	Day	0123	~~1,000.00~~
124	Hire Charges for Mobile Flash Butt Welding Plant	Day	0124	~~55,000.00~~
125	Hire charges of USFD testing machine(B-Scan)	Day	0125	~~2,500.00~~
126	Hire charges of USFD testing machine	Day	0126	~~800.00~~
127	Hire changes for sand receiver and sand blasting pipes with gun and all accessories complete	Day	0127	~~500.00~~
128	Hire charges for metalising gun with all accessories	Day	0128	~~600.00~~
129	Hire charges of Arc Welding Machine 500 Amp	Day	0129	~~300.00~~
130	Hire charges of gas cutter	Day	0130	~~100.00~~
131	Hire charges of translamatic robotic welding machine	Day	0131	~~5,000.00~~
132	Hire charges of Hot Paint machine	Day	0132	~~150.00~~
133	Hire charges of off -Track Tamper (Set of 4)	Day	0133	~~300.00~~
134	Hire charges of Rail Drill Machine	Day	0134	~~300.00~~
135	Hire charges for pillar drilling machine	Day	0135	~~1,000.00~~
136	Hire charges of Electrically operated Rail Drilling Machine	Day	0136	~~200.00~~
137	Hire charges of Concrete Sleeper Drilling Machine	Day	0137	~~300.00~~
138	Hire charges of Electrically operated Rail Cutting Machine	Day	0138	~~100.00~~
139	Hire charges of Rail Cutting Machine	Day	0139	~~300.00~~
140	Hire charges of Abrasive Rail Cutter (without POL)	Day	0140	~~300.00~~
141	Hire charges of Hydraulic Rail bender (Jim Crow)	Day	0141	~~200.00~~
142	Hire charges of Heavy Duty Hydraulic Extractor (10 Tonnes)	Day	0142	~~200.00~~
143	Hire charges of Hydraulic Rail tensor	Day	0143	~~150.00~~
144	Hire charges of Hydraulic Sleeper Spacer	Day	0144	~~200.00~~
145	Hire charges of Hammer Breaker	Day	0145	~~200.00~~
146	Hire charges of Grinding Machine for 150 mm dia wheel	Day	0146	~~300.00~~
147	Hire charges of Angle Grinder	Day	0147	~~200.00~~
148	Hire charges of Rail Profile Weld Grinder	Day	0148	~~100.00~~
149	Hire charges of Weld Trimmer Machine	Day	0149	~~300.00~~
150	Hire charges of Mechanical Toe load measuring device	Day	0150	~~200.00~~
151	Hire charges of Electronic Toe load measuring device	Day	0151	~~200.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
152	Hire charges of Hydraulic bending machine to bend the rails	Day	0152	~~1,100.00~~
153	Hire charges of Furnace blower to heat the rails for bending purpose	Day	0153	~~300.00~~
154	Hire charges for wood sawing machine including fuel and operator	Day	0154	~~1,500.00~~
155	Hire charges of Jib crane attachable and detachable to BFR/BRH	Day	0155	~~300.00~~
156	Hire charges of Portal Crane (with Fuel & Driver)	Hour	0156	~~250.00~~
157	Hire charges of Insulated Rail Dolly	Day	0157	~~20.00~~
158	Hire Charges of Inflatable emergency tower light 400 Watt	Day	0158	~~50.00~~
159	Hire charges of boat with boatmen	Day	0159	~~1,200.00~~
160	Hire charges of 3.0 m x 3.0 m waterproof Tent	Day	0160	~~200.00~~
161	Hire charges of Chair	Day	0161	~~15.00~~
162	Hire charges of Table	Day	0162	~~50.00~~
163	Hire charges of Laptop / Computer with software & Printer	Day	0163	~~300.00~~
164	Hire charges for plotter up to A0 size	Day	0164	~~700.00~~
165	Hire Charges of Halogen Lamps 500 Watt	Day	0165	~~40.00~~
166	Soil Quality Class SQ1 suitable for sub grade of embankment as per RDSO Specifications RDSO/2020/GE: IRS-0004	Cum	0166	~~75.00~~
167	Soil Quality Class SQ2 suitable for sub grade of embankment as per RDSO Specifications RDSO/2020/GE: IRS-0004	Cum	0167	~~125.00~~
168	Soil Quality Class SQ3 suitable for sub grade of embankment as per RDSO Specifications RDSO/2020/GE: IRS-0004	Cum	0168	~~150.00~~
169	Blasting Powder	Kg	0169	~~50.00~~
170	Blasting Fuse (Fuse Wire)	Each	0170	~~20.00~~
171	Bentonite powder	MT	0171	~~4,025.00~~
172	Doob grass	Sqm	0172	~~29.00~~
173	Sarkanda/ Sarpat	Sqm	0173	~~45.00~~
174	Grass sods	Sqm	0174	~~46.00~~
175	Non-woven Needle Punched and Mechanically or Thermally bonded type Geotextile for use as Separator/Filtration for Railway formation as per RDSO Specification No. RDSO/2018/GE:IRS-0004 - Part Iwith minimum strengths in Grab test, Trapezoidal Tear test and Puncture test of 700N, 250 N and 1800 N respectively	Sqm	0175	~~90.00~~
176	Non-woven Needle Punched and Mechanically or Thermally bonded type Geotextile for use as Separator/Filtration for Railway formation as per RDSO Specification No. RDSO/2018/GE:IRS-0004 - Part I with minimum strengths in Grab test, Trapezoidal Tear test and Puncture test of 1750N, 800 N and 5800 N respectively.	Sqm	0176	~~170.00~~
177	Geo-composite drain consisting of Geonet Core sandwiched between Non-Woven geo textile filters on both sides as per RDSO Specification No. RDSO/2018/GE:IRS-0006	Sqm	0177	~~450.00~~
178	Mechanically woven double twisted hexagonal shaped wire mesh gabion boxes of required sizes with 10mm x 12mm mesh of wire dia 2.7mm/3.7mm (ID/OD) and Zn & PVC coated	Cum	0178	~~1,495.00~~
179	Diesel (HSD) Oil	Litre	0179	~~94.60~~
180	Normal unleaded Petrol	Litre	0180	~~105.00~~
181	Hydraulic oil SS-68 or equivalent of HPCL/BPCL/IOCL	Litre	0181	~~100.00~~
182	Grease Graphite Grade 'O' (IS:408)	Kg	0182	~~240.00~~
183	Kerosene Oil	Litre	0183	~~56.00~~
184	Mobile Oil	Litre	0184	~~250.00~~
185	Grease MP-2 or equivalent of HPCL/BPCL/IOCL	Kg	0185	~~153.00~~
186	Ordinary Portland Cement 43 grade	MT	0186	~~4,940.00~~
187	Ordinary Portland Cement 53 grade	MT	0187	~~5,000.00~~
188	Pozzolana Portland Cement	MT	0188	~~4,700.00~~
189	Sulphate Resisting Cement	MT	0189	~~6,500.00~~
190	Plasticiser / Super Plasticiser	Kg	0190	~~80.00~~
191	Admixture (anti shrinkage compound) for CC/RCC work	Kg	0191	~~140.00~~
192	Synthetic polyester triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40.	Kg	0192	~~400.00~~
193	Waterproofing compound	Kg	0193	~~207.00~~
194	Muriatic Acid	Kg	0194	~~23.00~~
195	Surface protection material ESI Permaproof	Litre	0195	~~253.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
196	Surface protection material ESI Permacil -GA	Litre	0196	~~272.55~~
197	Surface protection material ESI Bond	Litre	0197	~~278.30~~
198	Filled sand bags (30 kg weight)	Each	0198	~~9.00~~
199	Coarse Sand (Zone III)	Cum	0199	~~1,200.00~~
200	Fine Sand (Zone IV)	Cum	0200	~~1,000.00~~
201	Screened Sand	Kg	0201	~~2.50~~
202	Stone Aggregate (single size) 63mm nominal	Cum	0202	~~900.00~~
203	Stone Aggregate (Single size) : 40 mm nominal size	Cum	0203	~~754.00~~
204	Stone Aggregate (Single size) : 20 mm nominal size	Cum	0204	~~825.00~~
205	Stone Aggregate (Single size) : 10 mm nominal size	Cum	0205	~~775.00~~
206	Stone Aggregate (Single size) : 06 mm nominal size	Cum	0206	~~775.00~~
207	Stone grit 6mm and down size or pea sized gravel	Cum	0207	~~600.00~~
208	Crusher Screening(Quarry Dust) Conforming to Grading Zone - I to Zone- II	Cum	0208	~~600.00~~
209	Production cost of Track Ballast in quarry including loading in truck	Cum	0209	~~569.00~~
210	Stone boulder, weighing minimum 35 kg each	Cum	0210	~~750.00~~
211	Stone Spalls	Cum	0211	~~445.00~~
212	Filter media of stone aggregate confirming to RDSO specification (12 cum loose to be taken as 10 cum after compaction)	Cum	0212	~~1,200.00~~
213	Low relaxation H T Strands conforming to IS 14268 latest version for prestressed concrete	MT	0213	~~57,000.00~~
214	CRCA Sheathing	Metre	0214	~~165.00~~
215	HDPE Sheathing	Metre	0215	~~275.00~~
216	Tube anchorage set complete with bearing plate , permanent wedges etc.	Each	0216	~~1,320.00~~
217	MS round bar for reinforcement- average rate for various dia	Quintal	0217	~~3,600.00~~
218	Thermo Mechanically Treated Bars grade Fe 500D - or more.(Average of dia 10mm to 25mm) without GST	Quintal	0218	~~5,974.00~~
219	G.I. Binding wire	Kg	0219	~~51.75~~
220	Structural Steel Plates conforming to Grade Designation E 250; Quality "A" as per IS 2062	Quintal	0220	~~6,300.00~~
221	Structural steel such as T, Angles, Channels and R S Joists conforming to Grade Designation E 250; Quality "A" as per IS 2062	Quintal	0221	~~4,950.00~~
222	Structural steel plates conforming to Grade Designation E250; Quality "B0" as per IS:2062,	Quintal	0222	~~7,330.00~~
223	Structural steel such as T, Angles, Channels and R S Joists conforming to Grade Designation E250; Quality "B0" as per IS:2062,	Quintal	0223	~~5,730.00~~
224	tructural steel such as T, Angles, Channels and R S Joists conforming to Grade Designation E 250; Quality "C" as per IS 2062	Quintal	0224	~~5,860.00~~
225	Structural steel such as T, Angles, Channels and R S Joists conforming to Grade Designation E250; Quality "BR" as per IS:2062,	Quintal	0225	~~5,500.00~~
226	Structural Steel such as T, Angles, Channels and R S Joists Grade Designation E350; Quality 'B0' as per IS 2062	Quintal	0226	~~6,000.00~~
227	M S Flat upto 10 mm thickness	Quintal	0227	~~6,300.00~~
228	HSFG bolt with DTI Wasters conforming to IRS B1-2001 with latest Correction Slips	Kg	0228	~~100.00~~
229	Mild steel rivets for steel girders	Quintal	0229	~~6,540.00~~
230	Rivets (different sizes) for miscellaneous works.	Kg	0230	~~54.50~~
231	Nut & Bolts with washers of all sizes	Kg	0231	~~80.00~~
232	Holding down HTS bolts with plates, nuts etc.	Quintal	0232	~~7,500.00~~
233	Cup Grinding Stone	Each	0233	~~900.00~~
234	Drill Bit 20-25 mm	Each	0234	~~300.00~~
235	Electrodes 4 mm dia for steel fabrication work	Metre	0235	~~15.00~~
236	Welding Rod for Gas Metal Arc Welding	Kg	0236	~~116.82~~
237	SAW Welding Wire	Kg	0237	~~66.00~~
238	Flux for SAW Weldging	Kg	0238	~~65.00~~
239	Cost of Drifts	Each	0239	~~65.00~~
240	Cost of Service Bolts for assembling of Girders	Each	0240	~~35.00~~
241	Shielding Gas (Co2) for fabrication works	Kg	0241	~~69.00~~
242	Aluminum Sheet / Strips of various sizes & thickness	Kg	0242	~~200.00~~
243	GI Sheet 1.50 mm thick	Quintal	0243	~~4,600.00~~
244	Mild steel chequered plate	MT	0244	~~70,000.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
245	Anti skid Stainless steel chequered plate of 409 M Grade as per Specification ASTM A240 and Pattern conforming to BIS 3502	MT	0245	~~140,000.00~~
246	Stainless steel nut, bolts and washers	Kg	0246	~~294.00~~
247	Polyvinyl chloride sheet 400 micron.	Sqm	0247	~~40.25~~
248	Z section sheet piles AZ 18-800 (Arcellor Mittal) or equivalent & bracing	Quintal	0248	~~4,500.00~~
249	G.I. wire 4mm dia	Kg	0249	~~70.00~~
250	MS Bolts & Nuts below 10mm dia	Kg	0250	~~60.00~~
251	MS bolts & nuts more than 10 mm dia	Quintal	0251	~~8,500.00~~
252	100mm channel shoulder 2.5 m long (Shuttering material)	Each	0252	~~1,322.50~~
253	MS tube 40mm dia (Shuttering material)	Metre	0253	~~293.25~~
254	Wall form Panel 1250mm x 450mm (Shuttering material)	Each	0254	~~1,150.00~~
255	Adjustable telescopic prop 3m (2.02m-3.75m) (Shuttering material)	Each	0255	~~1,265.00~~
256	Beam Clamp 300-380mm (450mm-1070mm) (Shuttering material)	Set	0256	~~454.25~~
257	Cadmium plated full threaded steel screws (30mm x 4mm dia) (Shuttering material)	100 nos.	0257	~~35.65~~
258	Aluminium washer 2mm thick & 15 mm dia (Shuttering material)	100 nos.	0258	~~28.75~~
259	uPVC Pipe- type A ISI marked 110mm dia (working pressure 4Kg/cm2)	Metre	0259	~~160.00~~
260	uPVC Pipe- type A ISI marked 160mm dia	Metre	0260	~~350.00~~
261	GI Pipe 50 mm dia , B Class Medium duty	Metre	0261	~~315.35~~
262	GI Pipe 100 mm dia , B Class Medium duty	Metre	0262	~~731.55~~
263	Clamps and MS stays including bolts and nuts for 100mm dia pipe	Each	0263	~~90.00~~
264	Clamps and MS stays including bolts and nuts for 50mm dia pipe	Each	0264	~~53.00~~
265	C I grating 100mm x 100mm	Each	0265	~~75.00~~
266	Etch primer as per IS: 5666	Litre	0266	~~340.00~~
267	Aluminium wire for spraying	Kg	0267	~~219.93~~
268	Elastomeric bearing assembly consisting of 7 layers of Elastomer bonded to 6 nos. internal reinforcing steel laminates by the process of vulcanisation, complete with all components as per drawing and Technical Specification (Each of 19200 Cu Cm)	Each	0268	~~15,360.00~~
269	Cast steel rocker bearing assembly of 250 tonne design load capacity duly painted complete with all its components as per drawing and specifications	Each	0269	~~100,000.00~~
270	Forged steel roller bearing of 250 tonne design load capacity duly painted complete with all its components as per drawing and specifications	Each	0270	~~150,000.00~~
271	PTFE sliding plate bearing assembly of 80 tonnes design load capacity duly painted complete with all its components as per drawing and Technical Specifications	Each	0271	~~24,000.00~~
272	300 MT Capacity Pot Cum PTFE Bearing (Free end) assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly comprising of stainless steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess(s) on the piston with internal seal (Brass laminated rings), hard facings, external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0272	~~57,880.00~~
273	300 MT Capacity Pot cum PTFE bearing (Fixed type) assembly consisting of a metal piston supported by un reinforced elastomer confined in the pot with brass ring sealing making with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0273	~~83,045.00~~
274	300 MT capacity Pot Cum PTFE GUIDED (L) Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings, external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0274	~~101,185.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
275	300 MT capacity Pot Cum PTFE GUIDED(T) Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0275	~~96,790.00~~
276	250 MT Capacity Pot Cum PTFE Bearing (Free end) assembly consisting of a metal piston supported by a disc of unreinforced elastomer that is confined with in the metal cylinder and sliding assembly comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0276	~~47,380.00~~
277	250 MT Capacity Pot type bearing (Fixed) assembly consisting of a metal piston supported by un reinforced elastomer confined in the pot with brass ring sealing making with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0277	~~62,045.00~~
278	250 MT Capacity Pot Cum PTFE GUIDED(L)Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0278	~~77,390.00~~
279	250MT Capacity Pot Cum PTFE GUIDED(T)Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0279	~~72,695.00~~
280	200 MT Capacity Pot Cum PTFE Bearing (Free end) assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0280	~~36,655.00~~
281	200 MT Capacity Pot type bearing (Fixed type) assembly consisting of a metal piston supported by un reinforced elastomer confined in the pot with brass ring sealing making with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0281	~~45,025.00~~
282	200 MT Capacity Pot Cum PTFE GUIDED(L)Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0282	~~57,140.00~~
283	200 MT Capacity Pot Cum PTFE Guided (T) Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0283	~~52,805.00~~

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
284	150 MT Capacity Pot Cum PTFE Bearing (Free end) assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0284	~~25,320.00~~
285	150MT Capacity Pot type bearing (Fixed type) assembly consisting of a metal piston supported by un reinforced elastomer confined in the pot with brass ring sealing making with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0285	~~29,985.00~~
286	150MT Capacity Pot Cum PTFE Guided (L) Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0286	~~38,745.00~~
287	150MT Capacity Pot Cum PTFE Guided (T) Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0287	~~35,760.00~~
288	100MT Capacity Pot Cum PTFE Bearing (Free end) assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0288	~~16,350.00~~
289	100MT Capacity Pot type bearing (Fixed type) assembly consisting of a metal piston supported by un reinforced elastomer confined in the pot with brass ring sealing making with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0289	~~17,385.00~~
290	100MT Capacity Pot Cum PTFE Guided (L) Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0290	~~25,625.00~~
291	100MT Capacity Pot Cum PTFE Guided (T) Bearing assembly consisting of a metal piston supported by a disc of un reinforced elastomer that is confined with in the metal cylinder and sliding assembly with guiding arrangement to bear and resist the horizontal force in the desired direction comprising of stain less steel attached to metal backing plate sliding in horizontal plane over PTFE confined in recess (s)on the piston with internal seal (Brass laminated rings),hard facings ,external seal & wiper seal etc complete with cast steel assemblies/fabricated structural steel assemblies duly painted with all components complete as per drawings and Technical Specifications.	Each	0291	~~23,350.00~~
292	300 MT Capacity Spherical fixed bearing consists of an assembly of precision machined steel components with spherical concave and convex elements in its centre designed and sized according the specific requirements .The bottom plate with a spherically concave top face covered with a recessed PTFE sheet .The top component is a solid stainless steel plate with spherically machined convex bottom face mating with concave curved surface fixed by restraining rings to restrict the horizontal movement as a complete unit made up of with Mild steel/cast iron steel/Stainless steel conforming to IS 2062 Grade -B & IS 1030 Grade 280-520W or 340-570W,AISI 304/316 shall be used for the backing plates with flat or curved surfaces.	Each	0292	~~65,185.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
293	300 MT Capacity Spherical free float bearing consists of an assembly of precision machined steel components with spherical concave and convex elements in its centre designed and sized according the specific requirements .The bottom plate with a spherically concave top face covered with a recessed PTFE sheet .The top component is a solid stainless steel plate with spherically machined convex bottom face mating with concave curved surface . Sliding assembly attached consists of a polished stainless sheet welded to the under side of top steel plate slides on PTFE disc recessed or bonded to the upper surface of convex plate as complete unit made up of with Mild steel/cast iron steel/Stainless steel conforming to IS 2062 Grade -B & IS 1030 Grade 280-520W or 340-570W,AISI 304/316 shall be used for the backing plates with flat or curved surfaces, Stainless sheet shall be in accordance with AISI316L OR of IS 6911 of minimum thick 3mm	Each	0293	~~55,860.00~~
294	300 MT Capacity Spherical Slide Guide (L) bearing consists of an assembly of precision machined steel components with spherical concave and convex elements in its centre designed and sized according the specific requirements .The bottom plate with a spherically concave top face covered with a recessed PTFE sheet .The top component is a solid stainless steel plate with spherically machined convex bottom face mating with concave curved surface . Sliding assembly with guiding system bear and transmit the horizontal force in one direction and allowing the movement perpendicular to above (Longitudinal direction) consisting of a polished stainless sheet welded to the under side of top steel plate slides on PTFE disc recessed or bonded to the upper surface of convex plate as complete unit made up of with Mild steel/cast iron steel/Stainless steel conforming to IS 2062 Grade -B & IS 1030 Grade 280-520W or 340-570W,AISI 304/316 shall be used for the backing plates with flat or curved surfaces, Stainless sheet shall be in accordance with AISI316L OR of IS 6911 of minimum thick 3mm.	Each	0294	~~79,400.00~~
295	300 MT Capacity Spherical Slide Guide (T) bearing consists of an assembly of precision machined steel components with spherical concave and convex elements in its centre designed and sized according the specific requirements .The bottom plate with a spherically concave top face covered with a recessed PTFE sheet .The top component is a solid stainless steel plate with spherically machined convex bottom face mating with concave curved surface . Sliding assembly with guiding system bear and transmit the horizontal force in one direction and allowing the movement perpendicular to above (Transverse direction) consisting of a polished stainless sheet welded to the under side of top steel plate slides on PTFE disc recessed or bonded to the upper surface of convex plate as complete unit made up of with Mild steel/cast iron steel/Stainless steel conforming to IS 2062 Grade -B & IS 1030 Grade 280-520W or 340-570W,AISI 304/316 shall be used for the backing plates with flat or curved surfaces, Stainless sheet shall be in accordance with AISI316L OR of IS 6911 of minimum thick 3mm	Each	0295	~~75,560.00~~
296	Single coil spring washer for bridge bearing for 36 mm dia bolts	Each	0296	~~12.00~~
297	Hot melt Thermo plastic road marking paint	Litre	0297	~~160.00~~
298	Luminous Paint as per RDSO's Spec. no. M&C/PCN/120-2011	Litre	0298	~~300.00~~
299	Bituminous Emulsion without Mica (IP no. 56192 and RDSO Specification no.P30-1996)	Litre	0299	~~200.00~~
300	Solvent confirming to IS Specification 1745-1976.	Litre	0300	~~150.00~~
301	High build epoxy paint (two pack) as per RDSO's Specn. No. M&C/PCN/111/88	Litre	0301	~~440.00~~
302	Anti-corrosive Bituminous Paint (Black) confirming to IS:9862	Litre	0302	~~80.00~~
303	Anti-corrosive Paint as per RDSO's Specn. No. M&C/PCN/123/2012	Litre	0303	~~280.00~~
304	Enamel Paint as per RDSO's Spec. no.M&C/PCN/120-2011	Litre	0304	~~190.00~~
305	Ready mix Zinc Chromate primer as per IS 104	Litre	0305	~~100.00~~
306	Zinc Chromate red oxide Primer to IS:2074	Litre	0306	~~130.00~~
307	Aluminium paint	Litre	0307	~~160.00~~
308	Synthetic Enamel Paint in Black or Chocolate shade	Litre	0308	~~220.00~~
309	Epoxy paint as per RDSO Spec M&C/PCN/123-11	Litre	0309	~~440.00~~
310	Ready Mixed Paint as per IS:13607	Litre	0310	~~230.00~~
311	Wire Brush - 25cm long	Each	0311	~~15.00~~
312	Soft Brush for painting - 25cm long	Each	0312	~~33.00~~
313	Paint Brush (writing) of any size	Each	0313	~~150.00~~
314	Industrial grade blown type Petroleum Bitumen of grade 85/25 as per IS:702	MT	0314	~~47,000.00~~
315	Coal tar Emulsion	Litre	0315	~~50.00~~
316	Bitumen emulsion for road of grade RS-1 confirming to IS 8887	MT	0316	~~37,000.00~~
317	Bitumen Hot sealing compound : Gr. A	MT	0317	~~28,000.00~~
318	Synthetic Rubber based Adhesive	Litre	0318	~~200.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
319	Epoxy for fixing HDPE dowel, Rubber Pads as per RDSO approved specification	Kg	0319	~~500.00~~
320	Araldite GY257	Kg	0320	~~379.50~~
321	Epoxy Hardener HY850	Kg	0321	~~370.30~~
322	Paint Brush 100 mm	Each	0322	~~90.00~~
323	Paint Brush 75 mm	Each	0323	~~70.00~~
324	Paint Brush 50 mm	Each	0324	~~40.00~~
325	Paint Brush 25 mm	Each	0325	~~20.00~~
326	Supply of complete assembly of strip seal expansion joint for 40mm expansion , comprising of edge beams, anchorage, strip seal element and complete assembly as per approved specification and drawings	Metre	0326	~~4,000.00~~
327	Supply of complete assembly of strip seal expansion joint for 80mm expansion , comprising of edge beams, anchorage, strip seal element and complete assembly as per approved specification and drawings	Metre	0327	~~5,500.00~~
328	Supply of complete assembly of strip seal expansion joint for 120mm expansion , comprising of edge beams, anchorage, strip seal element and complete assembly as per approved specification and drawings	Metre	0328	~~6,500.00~~
329	Supply of complete assembly of strip seal expansion joint for 160mm expansion , comprising of edge beams, anchorage, strip seal element and complete assembly as per approved specification and drawings	Metre	0329	~~8,000.00~~
330	Welding cable copper 50 mm^2	Metre	0330	~~110.00~~
331	500 Amp Arc welding Electrode holder	Each	0331	~~85.00~~
332	Welding & cutting torch	Each	0332	~~950.00~~
333	Hand gloves leather	Set	0333	~~250.00~~
334	Welding Hose rubber for Oxygen/D.A. 6mm dia	Metre	0334	~~28.00~~
335	Welding screen	Each	0335	~~150.00~~
336	Welding by Electric Plant	Cm	0336	~~1.00~~
337	Commercial LPG (in cylinder)	Kg	0337	~~73.71~~
338	Oxygen Gas (in cylinder)	Kg	0338	~~50.00~~
339	Acetylene Gas (in cylinder)	Kg	0339	~~65.00~~
340	Pressure Regulator for Oxygen/Acetylene cylinder	Each	0340	~~1,450.00~~
341	Hard Variety Jungle Wood blocks	10 Cudm	0341	~~350.00~~
342	2nd class deodar wood in scantling	10 Cudm	0342	~~465.00~~
343	Fuel wood	Quintal	0343	~~4,000.00~~
344	Crack filling epoxy for guniting and pressure grouting work	Kg	0344	~~650.00~~
345	Accelerator compound for guniting	Kg	0345	~~140.00~~
346	GI/MS nipple size 20mm dia	Each	0346	~~15.00~~
347	Pre-packed polymer concrete based on epoxy system complete with curing compound, initiator and promoter	Kg	0347	~~10.00~~
348	Epoxy mortar for concrete repair	kg	0348	~~25.00~~
349	Epoxy resin hardener mix for seal coat	Kg	0349	~~150.00~~
350	Acrylic polymer bonding coat	Litre	0350	~~150.00~~
351	Pre packed cement based polymer mortar of strength 45 Mpa at 28 days	Kg	0351	~~22.00~~
352	Wire mesh size 50mm x 50mm of 3mm wire	Kg	0352	~~80.00~~
353	Wire mesh (Rabbit)	Sqm	0353	~~67.20~~
354	Galvanised steel fibre	Kg	0354	~~200.00~~
355	Galvanised chain link mesh netting of 80mm x 80mm mesh size	Sqm	0355	~~180.00~~
356	Galvanised spiral lock spring	Each	0356	~~19.20~~
357	Epoxy coated washer plate of 200mm x 200mm x 6mm size	Each	0357	~~156.00~~
358	Anchor fastener of 10mm dia and 110mm length	Each	0358	~~72.00~~
359	Bottom anchors of 16mm dia HYSD & 1m length	Each	0359	~~276.00~~
360	Galvanised steel wire mesh rope net made of 9mm dia steel wire rope having aperture size of 45cm x 60cm with 6m length hangs	Sqm	0360	~~468.00~~
361	NP 4 Class RCC pipe 300mm dia	Metre	0361	~~600.00~~
362	NP 4 Class RCC pipe 450mm dia	Metre	0362	~~950.00~~
363	NP 4 Class RCC pipe 600mm dia	Metre	0363	~~1,630.00~~
364	NP 4 Class RCC pipe 900mm dia	Metre	0364	~~3,200.00~~
365	NP 4 Class RCC pipe 1000mm dia	Metre	0365	~~4,100.00~~
366	NP 4 Class RCC pipe 1200mm dia	Metre	0366	~~5,500.00~~
367	NP 4 Class RCC pipe 1800mm dia	Metre	0367	~~13,300.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
368	Designing and developing detailed structural and working Drawings for open / Pile / well foundation for RCC column / piers for ROB/RUB/Bridges, based on Railway's approved GADs, duly designing the members and submission of check plot duly getting proof checked by Railway approved institutes.	Set	0368	~~17,250.00~~
369	Designing and developing detailed structural and working Drawings for RCC bed block for ROB/RUB/Bridges, based on Railway's approved GADs, duly designing the members and submission of check plot duly getting proof checked by Railway approved institutes.	Set	0369	~~5,175.00~~
370	Designing and developing detailed structural and working Drawings for foundation and sub structure for RCC retaining wall, abutment and approach slab for ROB/RUB/Bridges, based on Railway's approved GADs, duly designing the members and submission of check plot duly getting proof checked by Railway approved institutes.	Set	0370	~~17,250.00~~
371	Exploratory drilling of boreholes of 150mm dia. in all type of soils except hard rock / large boulders (boulder core more than 30cm), for collecting the undisturbed core sample including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chieselling tool for advancing through occasional seams of hard strata, where necessary with contractor's labour, tools, plants, machinery, equipment, consumables etc., with all lead and lift complete as per specifications and as directed by the Engineer-in-charge in Dry area 0-10m	Metre	0371	~~796.00~~
372	Exploratory drilling of boreholes of 150mm dia. in all type of soils except hard rock / large boulders (boulder core more than 30cm), for collecting the undisturbed core sample including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chieselling tool for advancing through occasional seams of hard strata, where necessary with contractor's labour, tools, plants, machinery, equipment, consumables etc., with all lead and lift complete as per specifications and as directed by the Engineer-in-charge in Dry area 10m-20m	Metre	0372	~~836.00~~
373	Exploratory drilling of boreholes of 150mm dia. in all type of soils except hard rock / large boulders (boulder core more than 30cm), for collecting the undisturbed core sample including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chieselling tool for advancing through occasional seams of hard strata, where necessary with contractor's labour, tools, plants, machinery, equipment, consumables etc., with all lead and lift complete as per specifications and as directed by the Engineer-in-charge in Dry area 20m-30m	Metre	0373	~~880.00~~
374	Exploratory drilling of boreholes of 150mm dia. in all type of soils except hard rock / large boulders (boulder core more than 30cm), for collecting the undisturbed core sample including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chieselling tool for advancing through occasional seams of hard strata, where necessary with contractor's labour, tools, plants, machinery, equipment, consumables etc., with all lead and lift complete as per specifications and as directed by the Engineer-in-charge in Dry area 30m-40m	Metre	0374	~~955.00~~
375	Exploratory drilling of boreholes of 150mm dia. in all type of soils except hard rock / large boulders (boulder core more than 30cm), for collecting the undisturbed core sample including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chieselling tool for advancing through occasional seams of hard strata, where necessary with contractor's labour, tools, plants, machinery, equipment, consumables etc., with all lead and lift complete as per specifications and as directed by the Engineer-in-charge in Dry area 40m-50m	Metre	0375	~~1,100.00~~
376	Exploratory drilling of boreholes of 150mm dia. in all type of soils except hard rock / large boulders (boulder core more than 30cm), for collecting the undisturbed core sample including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chieselling tool for advancing through occasional seams of hard strata, where necessary with contractor's labour, tools, plants, machinery, equipment, consumables etc., with all lead and lift complete as per specifications and as directed by the Engineer-in-charge in Dry area 50m-60m	Metre	0376	~~1,300.00~~
377	Exploratory drilling of boreholes of 150mm dia. in all type of soils except hard rock / large boulders (boulder core more than 30cm), for collecting the undisturbed core sample including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chieselling tool for advancing through occasional seams of hard strata, where necessary with contractor's labour, tools, plants, machinery, equipment, consumables etc., with all lead and lift complete as per specifications and as directed by the Engineer-in-charge in Dry area 60m-70m	Metre	0377	~~1,400.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
378	Extra for 150mm dia. bore in hard Rock/large Boulder at all levels	Metre	0378	~~1,489.00~~
379	Drilling of NX size borehole (75mm dia.) in all types of hard rock (fresh rock) and collection of rock core samples from boreholes and preserving in boxes 0m-10m	Metre	0379	~~2,284.00~~
380	Drilling of NX size borehole (75mm dia.) in all types of hard rock (fresh rock) and collection of rock core samples from boreholes and preserving in boxes 10m-20m	Metre	0380	~~2,399.00~~
381	Drilling of NX size borehole (75mm dia.) in all types of hard rock (fresh rock) and collection of rock core samples from boreholes and preserving in boxes 20m-30m	Metre	0381	~~2,558.00~~
382	Drilling of NX size borehole (75mm dia.) in all types of hard rock (fresh rock) and collection of rock core samples from boreholes and preserving in boxes 30m-40m	Metre	0382	~~2,741.00~~
383	Drilling of NX size borehole (75mm dia.) in all types of hard rock (fresh rock) and collection of rock core samples from boreholes and preserving in boxes 40m-50m	Metre	0383	~~2,835.00~~
384	Drilling of NX size borehole (75mm dia.) in all types of hard rock (fresh rock) and collection of rock core samples from boreholes and preserving in boxes 50m-60m	Metre	0384	~~3,056.00~~
385	Drilling of NX size borehole (75mm dia.) in all types of hard rock (fresh rock) and collection of rock core samples from boreholes and preserving in boxes 60m-70m	Metre	0385	~~3,300.00~~
386	Conducting in-situ full size Plate Load Test (PLT) at selected location as per IS:10042 including making loading arrangements & casting of RCC/cast in-situ concrete footing as per codal provisions including excavation and refilling of trial pit : Plate size- 30cm x 30cm	Each	0386	~~15,000.00~~
387	Conducting in-situ full size Plate Load Test (PLT) at selected location as per IS:10042 including making loading arrangements & casting of RCC/cast in-situ concrete footing as per codal provisions including excavation and refilling of trial pit : Plate size- 45cm x 45cm	Each	0387	~~18,000.00~~
388	Conducting in-situ full size Plate Load Test (PLT) at selected location as per IS:10042 including making loading arrangements & casting of RCC/cast in-situ concrete footing as per codal provisions including excavation and refilling of trial pit : Plate size- 60cm x 60cm	Each	0388	~~21,500.00~~
389	Conducting in situ Vane shear test for soil as per IS:4434	Each	0389	~~2,200.00~~
390	Conducting SCPT for soil as per IS:4968	Each	0390	~~35,000.00~~
391	Conducting DCPT for soil as per IS:4968	Each	0391	~~29,000.00~~
392	Conducting determination of California Bearing Ratio (CBR) as per IS:2720	Each	0392	~~1,000.00~~
393	Taking out 100mm dia. & 450mm long undisturbed samples of soil from bore holes, including provision of air tight containers for packing and, labelling incl. transporting the samples to laboratory. Piston sampler shall be used for extracting undisturbed samples where necessary. Samples shall be collected as per IS:2720.	Each	0393	~~103.00~~
394	Taking out 100mm dia. & 450mm long disturbed samples of soil from bore holes, including provision of air tight containers for packing, labelling and transporting the samples to laboratory. Samples shall be collected as per IS:2720.	Each	0394	~~110.00~~
395	Conducting standard penetration test as per IS:2131 at approximate1.5m intervals in bore holes, as directed by the Engineer in charge	Each	0395	~~600.00~~
396	Collection of water samples at required intervals	Each	0396	~~170.00~~
397	Moisture Contents/Dry Density	Each	0397	~~200.00~~
398	Atterberg Limit	Each	0398	~~400.00~~
399	Specific Gravity	Each	0399	~~400.00~~
400	Grain size analysis including Hydrometer analysis	Each	0400	~~550.00~~
401	Direct Shear Test	Each	0401	~~1,500.00~~
402	Natural Density Test	Each	0402	~~450.00~~
403	Consolidation Test	Each	0403	~~5,000.00~~
404	Unconfined Compression Test	Each	0404	~~1,500.00~~
405	Tri-axial Test	Each	0405	~~1,500.00~~
406	Density Test	Each	0406	~~200.00~~
407	Water Absorption & Porosity	Each	0407	~~200.00~~
408	Hardness Test	Each	0408	~~100.00~~
409	Unconfined Compression Test for rock	Each	0409	~~1,500.00~~
410	Point Load Test	Each	0410	~~800.00~~
411	Modulus of Elasticity	Each	0411	~~4,000.00~~
412	Abrasion Testing	Each	0412	~~450.00~~
413	Conducting chemical analysis of ground water samples to determine suitability for concreting and aggressiveness in relation to attack on concrete / reinforcement including determination of pH value	Each	0413	~~1,000.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
414	Conducting chemical analysis of soil samples to determine aggressiveness in relation to attack on concrete / reinforcement including determination of pH value	Each	0414	~~1,000.00~~
415	Supply of Alumino Thermit Welding Portions, 3 piece prefabricated mould (ZIRCON WASHED) manully pressed, Single shot cricible fitted with auto tapping thimble as per RDSO Specification No IRST/19-2020 and as amended for 60 Kg/90UTS-25mm gap with accessories as per Annexure -I of IRUSSOR - 2021.	Each	0415	~~1,610.00~~
416	Supply of Alumino Thermit Welding Portions, 3 piece prefabricated mould (ZIRCON WASHED) manully pressed, Single shot cricible fitted with auto tapping thimble as per RDSO Specification No IRST/19-2020 and as amended for 52 Kg/90UTS-25mm gap with accessories as per Annexure -I of IRUSSOR - 2021.	Each	0416	~~1,574.00~~
417	Supply of Alumino Thermit Welding Portions, 3 piece prefabricated mould (ZIRCON WASHED) manully pressed, Single shot cricible fitted with auto tapping thimble as per RDSO Specification No IRST/19-2020 and as amended for 60 Kg/60EI-R260 grade Rail-25mm gap with accessories as per Annexure -I of IRUSSOR - 2021.	Each	0417	~~1,574.00~~
418	Luting Sand for AT welding	Kg	0418	~~10.00~~
419	Rail file 15" long for filing AT weld	Each	0419	~~450.00~~
420	CP-3032 Powder for reconditioning of scabs, wheel burns of rails and cupped AT welded joints	Kg	0420	~~1,550.00~~
421	TERRA C I-94 - Electrodes of make L & T, AdvaniOerlicon, Diffusion, SHARP - 650, or equivalent for reconditioning of MCI insert of points & crossings sleeper	Each	0421	~~175.00~~
422	H3 C Electrodes as per RDSO's Spec. no. IRS M:28-2011	Nos.	0422	~~78.13~~
423	H3 B Electrodes as per RDSO's Spec. no. IRS M:28-2011	Nos.	0423	~~76.50~~
424	H3 Electrodes as per RDSO's Spec. no. IRS M:28-2011	Nos.	0424	~~20.00~~
425	1.6mm dia core flux wire of cast manganese steel	Kg	0425	~~916.00~~
426	10 mm thick Grooved Rubber Pads as per drg. No. RDSO/T-5199 & RDSO's Spec. no. IRS-T-47-2006 (Prov.)-1989	Each	0426	~~132.00~~
427	Galvanised steel fittings for non insulated galvanized channel sleepers (52/60 kg rail) as per RDSO drawing no. RDSO/T-5197 to 5200	set	0427	~~1,534.00~~
428	Galvanised steel fittings for insulated galvanized channel sleepers (52/60 kg rail) as per RDSO drawing no. RDSO/T-5155 to 5164	set	0428	~~2,000.00~~
429	Supply of 25/30 mm thick Elastomeric Pad as per RDSO drawing No. B/1636/I/R2	Each	0429	~~152.00~~
430	Supply of 2 nos. Elastomeric Pad 25mm/30mm and 4 nos. Grooved Rubber Pad as per RDSO drawing No. B/1636/5/Alt 2	Set	0430	~~1,650.00~~
431	Galvanised MS Inner and Outer Clip for steel channel sleeper (RDSO Drg. No. T-6150 & T-6151)	Set	0431	~~434.00~~
432	Single Coil spring washers T-10773	Each	0432	~~4.35~~
433	Dip Galvanisation @ 705gm / sqm (100 Microns thick)	MT	0433	~~17,000.00~~
434	Hook Bolts 28mm dia & 320mm long as per RDSO's drg. No. BA-1636/I/R2 (Nuts, Bolts, washer, Split pins etc.)	Kg	0434	~~65.00~~
435	Zero toe load galvanised fixtures for H Beam sleepers of 52/60kg Rails as per RDSO approved drawing	Set	0435	~~3,000.00~~
436	Lifting Barrier assembly for 6m long Lifting Barrier, having fragmented boom, boom light boxes with suitable gate lamps, bell, Boom supports (stay wires) with adjusters, counter weight, pedestal and lock posts with foundation of 'A' type as required, turn union wheel with brackets, balance and auxiliary weights clamps etc to approved standard drawings with all fittings and fastenings complete (excluding fringes)	set	0436	~~96,858.59~~
437	Lifting Barrier assembly for 8m long Lifting Barrier, having fragmented boom, boom light boxes with suitable gate lamps, bell, Boom supports (stay wires) with adjusters, counter weight, pedestal and lock posts with foundation of 'A' type as required, turn union wheel with brackets, balance and auxiliary weights clamps etc to approved standard drawings with all fittings and fastenings complete (excluding fringes)	set	0437	~~129,144.47~~
438	Lifting Barrier assembly for 10m long Lifting Barrier, having fragmented boom, boom light boxes with suitable gate lamps, bell, Boom supports (stay wires) with adjusters, counter weight, pedestal and lock posts with foundation of 'A' type as required, turn union wheel with brackets, balance and auxiliary weights clamps etc to approved standard drawings with all fittings and fastenings complete (excluding fringes)	set	0438	~~161,431.29~~
439	Winch arrangement for operation of level crossing lifting barriers, as per RDSO's approved layout having standard covering arrangement, foundation of 'A' type as required and pulleys, pulley guides and stakes, horizontal rope wheel, vertical rope wheel, wire adjusting screws wire ropes 6x6x19 with all fittings, fixtures and accessories to RDSO's approved drawings with all parts including painting of steel work as per specification(excluding excavation and concrete work)	Each	0439	~~35,289.90~~

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
440	Auto boom locking arrangement (Single lever) for existing lifting barriers, consisting of interlocking ground frame near gate lodge, foundation of 'A' type as required and connecting ground frame to lock posts of gate booms with stipulated rodding on guide rollers, supported on trestles as per RDSO's drawings complete (Excluding excavation, concrete work)	Each	0440	~~82,481.50~~
441	Auto boom locking arrangement (Double lever) for existing lifting barriers, consisting of interlocking ground frame near gate lodge, foundation of 'A' type as required and connecting ground frame to lock posts of gate booms with stipulated rodding on guide rollers, supported on trestles as per RDSO's drawings complete (Excluding excavation, concrete work)	Each	0441	~~85,105.91~~
442	Gate lamps	Each	0442	~~4,035.00~~
443	GI wire rope of 6mm dia. 6 ply to suit lifting barrier gates	Kg	0443	~~350.00~~
444	Boom Supports (stay wires) for lifting barrier (approx. 8mm dia)	Each	0444	~~1,000.00~~
445	4" dia round ceramic Light Reflector as per specification	Each	0445	~~350.00~~
446	Pulley with Pulley stakes complete, wire rope 6x6x19 ply with accessories as per Railway's approved drawings for operation of lifting barriers	Each	0446	~~347.00~~
447	Vertical / Horizontal Turnout Wheels and Shafts mounted over the base plate weighing not less than 6 Kg with supporting vertical base made of MS angles 75mm x 75mm x 10mm as per Railway's approved drawing and specifications	Each	0447	~~1,320.00~~
448	Turnout wheel- HORIZONTAL ROPE WHEEL double wire (2 way) including guides	Each	0448	~~2,024.00~~
449	Galvanized STEEL WIRE ROPE for DW signalling 6 x 19 ply as per IRS No. S.11 amended upto date for lifting barrier at level crossing gates	Kg	0449	~~250.00~~
450	Precast CC Paver block -80mm thick M35 grade	Sqm	0450	~~495.00~~
451	Precast CC Paver block -120mm thick M40 grade	Sqm	0451	~~774.00~~
452	HDPE Dowels	Each	0452	~~100.00~~
453	High Speed Hacksaw Blade of size 300mm x 12.5mm x 0.63mm (18TPI) as per as per RDSO's Spec. no. TM/SM/26 (latest Rev.)	Each	0453	~~160.00~~
454	Hack Saw Blades	Each	0454	~~593.22~~
455	Abrasive rail cutting disc as per RDSO's Spec. no. TM/SM/2	Each	0455	~~574.00~~
456	Driving belt (abrasive rail cutter)	Each	0456	~~600.00~~
457	Grinding Stone wheel GQ6 of 150mm dia	Nos.	0457	~~490.00~~
458	Shearing Blade for weld trimming machine	Each	0458	~~150.00~~
459	Rechargeable Battery for ETLMD as per RDSO's Spec. no. TM/SM/ETLMD/218	Each	0459	~~1,000.00~~
460	Drill twist made of high speed of size 16 mm dia of Addison / I.T. make	Each	0460	~~1,631.50~~
461	Drill twist made of high speed of size 7.2 mm dia of Addison / I.T. make	Each	0461	~~271.00~~
462	Drill twist made of high speed steel for size 26.5mm dia of Addison / I T make	Each	0462	~~2,852.30~~
463	Drill twist made of high speed steel for size 18mm dia of Addison / I T make	Each	0463	~~1,866.40~~
464	Drill twist made of high speed steel for size 28.75 mm dia of Addison / I T make	Each	0464	~~3,242.40~~
465	Drill twist made of high speed steel for size 31.75 mm dia of Addison / I T make	Each	0465	~~4,335.90~~
466	Drill Bit (32 mm & 26.5 mm dia)	Each	0466	~~300.00~~
467	Auger Carpenter	Each	0467	~~90.00~~
468	Hand lever box full set BG	Each	0468	~~11,000.00~~
469	Point lock pin full set BG	Each	0469	~~720.00~~
470	Fosroc conbextra-GP2 grout or similar make in 25 Kg bag	Each	0470	~~494.00~~
471	Black Oil (used lubricating oil)	Litre	0471	~~15.00~~
472	High intensity retro-reflective sheet	Sqm	0472	~~1,625.00~~
473	Retro Reflective tape 50mm wide	Metre	0473	~~71.30~~
474	Steel wires released from U/S PSC Sleeper	Kg	0474	~~25.00~~
475	Bamboo 50 mm dia 2.5 metre long (1 Score = 20 nos.)	score	0475	~~1,500.00~~
476	Hollock Ballies 80mm diameter	Metre	0476	~~85.00~~
477	Hollock Ballies 150mm diameter	Metre	0477	~~150.00~~
478	150 mm dia Eucalyptus Ballies	Metre	0478	~~143.75~~
479	125 mm dia ballies of locally available hard wood	Metre	0479	~~90.00~~
480	100 mm dia ballies of locally available hard wood	Metre	0480	~~65.00~~
481	Iron spike (different sizes)	Kg	0481	~~60.00~~
482	Nylon rope 5 mm dia	Kg	0482	~~90.00~~
483	Weedicide Chemical - Glyphosate	Litre	0483	~~296.90~~
484	Fluorescent Tube Lights 40 Watt	Nos.	0484	~~45.00~~

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.

(Rates of the Basic Elements are without GST)

1. Rates of Basic Element shall necessarily be without GST as provision of the GST has been made in the Analysis of Rates of Items. Accordingly, it must be ensured that Rates of basic elements to be entered in this "Basic Input Data Sheet" while updation of USSOR are exclusive of GST. Similarly hire - charges of plant & machinery shall also be exclusive of GST. However hire Charges shall be inclusive of cost of services of operating staff, Cost of lubricating oil, fuel and other consumables for running the plant and machinery unless othewise specified in the Description of the Basic Element.

2. For hire charges of plant machinery, per day means single shift of eight working hours.

SL	Description	Unit	Rate Code	Rate (₹)
485	Hard Wood Peg of 50mm dia & 60 cm long	Each	0485	~~25.00~~
486	Liquid solution in 250ml pack, having break loose torque of 400Nm to 540Nm, as per ISO:10123 norms with shear strength of liquid solutions as 25 to 35 N/mm2, viscosity 1500 to 3000 (Centipoise) & specific gravity of 1.1 ± 0.05. for tightening of all types of track nuts & bolts to prevent loosening during vibrations	Each	0486	~~2,500.00~~
487	Poly chloroprene rubber based solvent (toluene free) to prevent working out of rubber pads	Kg	0487	~~2,000.00~~
488	U pin of 6mm dia mild steel of 0.3m length for stone cladding work	Each	0488	~~14.00~~
489	Cotton Jute	Kg	0489	~~40.00~~
490	Empty cement bag polythene 50 Kgs capacity	Each	0490	~~5.00~~
491	Sand Paper medium-grit (100- to 150-grit), 9" x 11"	Nos.	0491	~~5.00~~
492	Poly propylene tarred rope gabion fabricated from 9mm dia rope 100m x 100m mesh with partition at every 1m interval	Cum	0492	~~1,380.00~~
493	Precast Concrete bridge No. plaque/Stone	Each	0493	~~287.50~~
494	Precast Concrete bridge foundation details plaque including engraving complete	Each	0494	~~525.00~~
495	PVC pipe 25 mm dia confirming to IS standard for Electric Wiring	Metre	0495	~~75.00~~
496	PVC junction boxes 4 way for Electric Work	Each	0496	~~18.99~~
497	Tracing paper in roll with specification- weight 95gm/m2 width 914mm and length 45.7m	Each	0497	~~250.00~~
498	Ammonia Print Sheet of 55 to 60 GSM, 914mm wide and 10m long	Each	0498	~~250.00~~
499	Hire Charges of Total Station instrument	Day	0499	~~200.00~~
500	Electricity Charges (1 Unit)	KWH	0500	~~7.50~~
	Linked/Fixed Rates, not to be touched			
501	Hire Charges of Crawler mounted 3D Hydraulic Excavator 148 HP (0.9 Cum Bucket Capacity)	Day	0501	10,213.40
502	Hire Charges of Crawler mounted Hydraulic Excavator 200 HP (2.5 cum bucket)	Day	0502	14,405.40
503	Hire Charges of Wheel loader 3.1 Cum bucket capacity 165 HP (without POL)	Day	0503	4,173.00
504	Hire charges of Motor grader (3.67 metre blade)	Day	0504	18,031.80
505	Hire charges of dozer 166 HP capacity	Day	0505	17,336.20
506	Hire Charges of JCB 3DX Plus Backhoe Loader	Day	0506	4,674.20
507	Hire Charges of 20T truck with long trailers (without POL)	Day	0507	2,903.00
508	Hire charges of Diesel Truck - 9 tonne	Day	0508	3,649.40
509	Hire and running charges of Tipper 12 Cum Capacity	Day	0509	6,094.05
510	Hire and running charges of Tipper 12 Cum Capacity (without POL)	Day	0510	2,191.80
511	Hire Charges of Truck - 9 tonne (without POL)	Day	0511	1,379.00
512	Hire Charges of 1.5 tonne Pickup Truck (without POL)	Day	0512	1,023.40
513	Sundries	Lumpsum	9901	1.00
514	Add for Water Charges @ 1%	Lumpsum	9902	0.01
515	Add for GST @ 12% (multiplying factor 0.1405)	Lumpsum	9903	0.14
516	Add for Contractor's Overheads and Profit @ 15%	Lumpsum	9904	0.15
517	Add for Cess @ 1%	Lumpsum	9905	0.01
518	Add for working under traffic block @ 5%	Lumpsum	9991	0.05
519	Add for working under traffic block @ 10%	Lumpsum	9992	0.10
520	Add for working under traffic block @ 15%	Lumpsum	9993	0.15
521	Add for working under traffic block @ 20%	Lumpsum	9994	0.20
522	Add for working under traffic block @ 25%	Lumpsum	9995	0.25

Note: The figures given in Amount/Rate Column (Which are strikethrough) are not to be taken for estimation or justifying rate. This amount/rate has been given for illustration purpose only.