

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra**

**Summary of Schedules**

Schedule	Description of schedule	IPRCL Estimated Amount (Rs.)	Tender/s %age Above/Below/At Par
1	2	3	4
Schedule-A	USSOR-2011 Items other than cement & steel	7,54,36,744.16	
Schedule-B	USSOR-2011 Items (Supply of Cement)	1,30,36,254.52	
Schedule-C	USSOR-2011 Items (Supply & Fixing of Reinforcement Steel)	3,80,39,028.94	
Schedule-D	Non Schedule Items	10,71,93,636.00	
Schedule-E	Supply of Ballast	57,75,688.80	
Schedule-F	P.Way Supply other than Steel	1,64,14,792.74	
Schedule-G	P.Way Supply Steel	64,76,963.05	
Schedule-H	P.Way Linking (Installation Work)	93,20,714.66	
Schedule-I	P.Way Linking (Supply & Installation Work)	23,23,455.62	
Schedule-J	Site facility	30,10,530.60	
<b>Total Estimated cost (Rs.)</b>		<b>27,70,27,809.09</b>	

**Notes:**

1. Tenderers will examine the various provisions of The Central Goods and Services Tax Act 2017 (CGST) / Integrated Goods and Services Tax Act 2017 (IGST) / Union Territory Goods and Services Tax (UGST) / respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/ State Govt. & as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.

2. The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to IPRCL immediately after the award of contract without which no payment shall be released to the contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority.

3. In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the IPRCL shall deduct the applicable GST from his / their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.

4. The GST component should be indicated separately.

5. The quoted rates shall be exclusive of GST. GST shall be payable separately as per the extant laws for composite work.

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra**

**Schedule 'A' USSOR-2011 (GENERAL ITEMS)**

S.N.	USSOR-2011	Description	Unit	Quantity	Estimated Rate (Rs)	Estimated Amount (Rs)
1	011010	Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5each, including incidental work, as per specification-in				
1a)	011011	All kinds of soils	Cum	162.00	118.87	19,256.94
2	012010	Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly	Cum	162.00	11.49	1,861.38
3	013110	Earthwork in cutting (Classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine and materials and removing & leading all cut spoils either to make spoil dumps beyond 10m. from cutting edge or for filling in embankment with all leads within the section limit, lifts, ascent, descent, loading, unloading, all taxes/royalty, clearance of site and all incidental charges, bailing & pumping out water if required, etc., complete as per directions of the Engineer-in-Charge. The work is to be executed as per Latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract. Note - (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. Additional Notes : Rate includes filling & spreading in layers ,dressing of bank to final profile if the material is used for filling in bank . Only extra for mechanical compaction shall be paid under relevant item. The rate also includes the disposal of unused earth within JNPT/Railway boundary. Nothing extra is payable for this lead.				
3a)	013111	In all conditions and classifications of soil except rock	Cum	171647.00	168.20	2,88,71,025.40
3b)	013112	Soft rock not requiring blasting in all Conditions	Cum	30291.00	269.55	81,64,939.05
3c)	013114	In rock and very hard rock with hammer / chisel / pavement breaker etc. where blasting is not permitted due to special circumstances and if specifically ordered in writing incl. drilling and all incidental work in all conditions	Cum	100.00	562.60	56,260.00
4	013130	Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&P consumable material and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow	Cum	0.00	16.84	-
5	014030	Felling trees of girth (measured at a height of 1m above ground level) including lead and stacking of material within 100m. Note : 1. When stumps are grubbed up in addition, the rates shall be doubled for trees cut and grubbed. 2. Payment for grubbing shall only be made where specially ordered. 3. Grubbing shall be ordered only where it is essential to remove the stumps, including the roots, as per specification. 4. Grubbing shall include removal of roots of trees and saplings to a depth of 60 cm below ground level or 30 cm below formation level or 15 cm below sub grade level, whichever is lower				
5a)	014031	Girth over 30cm and upto 60cm	Each	100.00	133.75	13,375.00
5b)	014032	Girth over 60cm and upto 1.5m	Each	50.00	367.70	18,385.00
5c)	014033	Girth over 1.5m upto 3.0m	Each	30.00	731.50	21,945.00
6	031010	Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level :				
6a)	031012	1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 40mm nominal size)	Cum	5.00	2289.14	11,445.70
7	031061	Centering and shuttering including strutting propping etc and removal of formwork for : Foundations, footings, bases of columns.	Sqm	8.00	115.22	921.76
8	041010	Providing and laying in position M 20/M25 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge				
8a)	041011	All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc.	Cum	582.00	2561.93	14,91,043.26
8b)	041012	All work in buildings above plinth level upto floor two level.	Cum	5.00	3074.31	15,371.55
9	042010	Centering and shuttering including strutting, propping etc. and removal of form for :				
9a)	042011	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	934.00	114.77	1,07,195.18
9b)	042012	Walls (any thickness) including attached plasters, buttresses, plinth and string courses etc.	Sqm	317.00	229.25	72,672.25
9c)	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	34.00	273.10	9,285.40
9d)	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	18.00	232.65	4,187.70
9e)	042015	Columns, pillars, , posts and struts	Sqm	30.00	261.01	7,830.30

S.N.	USSOR-2011	Description	Unit	Quantity	Estimated Rate (Rs)	Estimated Amount (Rs)
10	043010	Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge.				
10a)	043015	In slab of drain covers , manhole covers, flue tops etc.	Cum	1.00	3185.96	3,185.96
11	051010	Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in :				
11a)	051015	Cement mortar 1:6 (1 cement : 6 fine sand)	Cum	7.00	3025.23	21,176.61
12	051040	Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level :	Cum	5.00	196.58	982.90
13	072150	Providing and fixing flush door shutters to IS : 2202 Part-I non -decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
13a)	072151	35mm thick including ISI marked stainless steel butt hinges with necessary screws	Sqm	3.00	1011.71	3,035.13
14	078020	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete				
14a)	078021	300x16mm	Each	1.00	232.26	232.26
15	078060	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete				
15a)	078061	125mm	Each	1.00	70.59	70.59
16	081030	Structural steel work welded in built up sections, trusses and framed work, girders, stagings, racks, etc including cutting, bending, straightening, hoisting, fixing in position, including applying a priming coat of approved steel primer, complete - upto 6m height above GL				
16a)	081031	In RSJ, tees, angles and channels	Kg	1960.00	73.22	1,43,511.20
16b)	081032	In flats, plates , round or square bars	Kg	1176.00	73.38	86,294.88
17	105010	Providing & laying water-proof treatment on roof slabs by applying after preparation, cement slurry mixed with Tapecrete acrylic based polymer water proofing compound (having solid content 30% ± 2, pH >7) in a ratio of 2:1 (2 cement : 1 water proofing compound), followed by laying of fibre glass cloth; 2nd coat of cement slurry mixed with acrylic based polymer water proofing compound and a final coat of water proofing compound brush topping having water proofing compound, cement and c/sand @ 1:2:2 by weight. Complete job to be carried out as per specifications	Sqm	9.00	329.05	2,961.45
18	111010	12 mm cement plaster of mix -				
18a)	111011	1:4 (1cement: 4 fine sand)	Sqm	29.00	88.35	2,562.15
19	111020	15 mm cement plaster on the rough side of single or half brick wall of mix -				
19a)	111021	1:4(1cement :4 fine sand)	Sqm	37.00	101.70	3,762.90
20	111150	Cement plaster to ceiling of mix -				
20a)	111151	6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	9.00	74.38	669.42
21	115040	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
21a)	115041	New work (two or more coats of distemper) over and including priming coat with cement primer	Sqm	38.00	67.67	2,571.46
22	115110	Finishing walls with water proofing cement paint of required shade two or more coats on new work applied @ 3.84 Kg/10 sqm	Sqm	37.00	35.88	1,327.56
23	161470	Supplying & sowing of seeds of specified varieties of trees/shrubs in a well fenced area or along a fencing as nominated by the Engineer's representative including preparation of bed, watering, manuring, applying insecticides etc. complete in all respects. The seed should be nursed for a period of 3 months from the date of sowing including supply of labour and material. Trees include Amaltas, Casuarina, Eucalyptus, Jacaranda, Jarul, Karanj, Ashoka, Phurush, Babla, Sisham, Sal, Segun etc.	Sqm	1000.00	91.76	91,760.00
24	181020	Demolishing plain cement concrete including disposal of material within 50m lead				
24a)	181021	1:2:4 or richer mix with max. 20 mm coarse aggregate	Cum	100.00	605.94	60,594.00
24b)	181022	Mix leaner than 1:2:4 with coarse aggregate larger than 20mm	Cum	50.00	373.91	18,695.50
25	181030	Demolishing R.C.C. work including cutting and stacking of steel bars and disposal of unserviceable material within 50m lead. (Extra payment for scraping, cleaning and straightening of bars to be made separately)	Cum	100.00	883.99	88,399.00
26	182030	Demolishing stone rubble masonry including stacking of serviceable material and disposal of unserviceable material within 50m lead				
26a)	182032	In lime mortar	Cum	20.00	288.15	5,763.00
26b)	182033	In cement mortar	Cum	20.00	611.32	12,226.40
27	191090	Conducting determination of California Bearing Ratio as per IS 2720	Each	100.00	928.20	92,820.00
28	192010	Earth work in excavation for foundations and floors of the bridges, retaining walls etc., including setting out, dressing of sides, ramming of bottom, getting out - All kinds of soilsthe excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. incl. all lift, disposal of surplus soil upto a lead of 300 M, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge				
28a)	192011	All kinds of soils	Cum	23108.00	209.47	48,40,432.76
28b)	192012	Ordinary rock	Cum	2568.00	264.40	6,78,979.20

S.N.	USSOR-2011	Description	Unit	Quantity	Estimated Rate (Rs)	Estimated Amount (Rs)
29	192030	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40 mm nominal size, in foundation and floors, retaining walls of bridges including mechanical mixing, vibrating, pumping and bailing out water where ever required with all materials and labour complete but excluding the cost of cement and shuttering as per drawings and technical specifications as directed by Engineer	Cum	722.00	2082.35	15,03,456.70
30	192050	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M25 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in Abutment, pier, wing walls and return walls of Mass cement concrete above RCC raft Including finishing complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra.	Cum	276.00	2090.98	5,77,110.48
31	194010	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M30/M35/M40 grade (Cast - in Situ) In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component using 20 mm graded crushed stone aggregate and coarse sand of approved quality of cast-in-situ RCC box of size upto 5 M (bigger inside dimension) including finishing, Admixtures in recommended proportions (as per IS 9103), if approved in Mix design, to accelerate, retard setting of concrete, improve workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra	Cum	5837.00	2090.98	1,22,05,050.26
		<i>Special Condition :- This item to be operated for RCC box of span higher than 5.0m also.</i>				
32	195020	Providing and applying two coats of coal tar or bitumen conforming to IS 3117 - 1965 on the top and sides of RCC box/slabs @ 1.70 Kgs / Sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer	Sqm	425.00	108.29	46,023.25
33	195030	Centring and shuttering including strutting, propping etc. and removal of form for :				
33a)	195031	RCC raft foundation & Pile cap	Sqm	329.00	114.77	37,759.33
33b)	195032	Abutment, pier, wing walls and return walls	Sqm	7696.00	229.25	17,64,308.00
33c)	195038	In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component	Sqm	5518.00	229.25	12,65,001.50
34	221050	Providing and laying Pitching with stone boulders weighing not less than 35 kg each with the voids filled with spalls on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specification (filter media to be paid separately under relevant item)	Cum	38.00	1270.25	48,269.50
35	222020	300 mm thick (average) Dry stone flooring with boulders of not less than 35 kg each in weight, hand packed with surface levelled off to the correct section with hammer dressing as necessary on the ground including filling the gaps with quarry spalls and ordinary sand complete including the cost of supply of all materials, labour, lead, lift, tools, plants, crossing of tracks and the like as per drawing and technical specification as directed by Engineer	Cum	1333.00	1255.14	16,73,101.62
36	222160	Providing weep holes by making suitable opening or drilling in existing brick masonry/plain/ reinforced concrete abutment,wing wall/ return wall with 100mm dia AC pipe, extending to the full width of structure complete	Metre	1137.00	446.75	5,07,954.75
37	222180	Providing and laying of filter media consisting of granular materials of GW, GP, SW,groups as per IS 1498-1970 in required profile behind boulder filling of abutments, wings walls, retain wall etc. above bed level with all labour and materials complete job as per drawing and technical specifications of RDSO guidelines	Cum	219.00	1502.31	3,29,005.89
38	222230	Painting the HFL and Danger level marks, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two course over the one coat of primer with all material, labour, tools, scaffolding, all lead and lift etc. including writing complete	Each mark	30.00	117.52	3,525.60
39	222240	Providing cast In situ bridge number plaques as per railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in bridge parapet coping duly engraving the letter and figures and arrows indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two cores of black enamel paint on two coats of white background with all labour, tools, cement, paint, etc. with all leads and lifts	Each	6.00	443.55	2,661.30
40	222250	Providing cast in situ plaques for bridge foundations details of size 45x45x5 cm in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm deep notch over abutment & piers, engraving the letters & figures with CM 1:3 and finished smooth including painting letters and figures with 2 coats of black enamel and plaque with white enamel with all labour, tools, cement, paint, curing, etc. as a complete job	Each	6.00	776.72	4,660.32
41	222290	Providing Boulder backing behind wing wall, return wall, retaining wall with hand packed boulders & cobbles with smaller size boulders toward the back including all lead, lift, labour & other incidental charges as complete work in all respect. Payment for boulder/cobbles will be done extra.	Cum	657.00	197.38	1,29,678.66
42	231040	Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete.				
42a)	231041	Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size	Cum	4500.00	1271.24	57,20,580.00
42b)	231042	Base course with 63mm to 45mm size including stone screening 13.2mm size	Cum	2250.00	1370.03	30,82,567.50
43	252390	Supply of Stone Boulder Weighing minimum 35 Kg Each	Cum	695.00	700.74	4,87,014.30
44		Any other USSOR 2011 item not included in this schedule but required at the time of execution upto value of Rs.50000 or 10% of contract value.				10,00,000.00
		<b>Total of Schedule 'A'</b>				<b>7,54,36,744.16</b>

Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra

Schedule 'B' USSOR-2011 (CEMENT ITEMS)

S.N.	USSOR-2011	Description	Unit	Quantity	Estimated Rate (Rs)	Estimated Amount (Rs)
1	033060	Supply and using cement at work site				
1a)	033062	OPC 53 grade	Tonne	2851.00	4572.52	1,30,36,254.52
		<b>Total of Schedule 'B'</b>				<b>1,30,36,254.52</b>

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra**

**Schedule 'C' USSOR-2011 (STEEL ITEMS)**

S.N.	USSOR-2011	Description	Unit	Quantity	Estimated Rate (Rs)	Estimated Amount (Rs)
1	045010	Supplying Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
1a)	045016	Thermo-Mechanically Treated bars	Kg	731098.00	52.03	3,80,39,028.94
		<b>Total of Schedule 'C'</b>				<b>3,80,39,028.94</b>

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra****Schedule 'D' N.S. ITEMS**

S.N.	Item No	Description	Unit	Quantity	Estimated Rate (Rs)	Estimated Amount (Rs)
1	1/NS	<p>Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions, mechanical compaction of earth filled in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&amp;P consumable material and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects"(GE:G-1) issued by RDSO, Lucknow.</p> <p>The rates shall include spreading in layers not exceeding in specified thickness in loose conditions by paver, leveling by grader, compacting by vibro roller of required capacity upto desired degree of compaction (not less than 98% of MDD as obtained from heavy compaction modified proctor test in accordance with IS 2720(Pt.VIII) 1983 and IS 10379 of 1982), all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling. taxes, octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract</p> <p>Notes :- 1) The work within 3.5m from existing track centre shall be done only in traffic block, during day /night . 2) Rates cover all costs of site clearances including removing all vegetations , shrubs , roots etc up to 300mm girth. 3) Rate is including lightening arrangement required during night working.</p>	Cum	24925.00	422.97	1,05,42,527.25
2	2/NS	<p>Providing of blanketing over finished formation as per RDSO's latest specification and procedures by supplying materials of approved quality, blending / mixing, spreading in layers not exceeding in specified thickness in loose conditions by paver, leveling by grader, compacting by vibro roller of required capacity upto desired degree of compaction (not less than 98% of MDD in case single blanket layer, 100% of MDD in case of Two layer system), finishing of correct profile with all lead &amp; lift complete in all respect up to the satisfaction of Railway site engineer. Rate also includes watering wherever requiring, all tools, plants machinery testing equipment and charges, labours all taxes, Royalties, Octroi etc as may be required. The work shall be carried out as per RDSO Guidelines &amp; specification for Designing of formation for Heavy Axle load (GE-0014 of Nov 2009 and specification for mechanically produced blanketing material for Railway formation including guidelines for laying (IRS - GE -2) and RDSO / 2007 / GE : 0011.</p> <p>Note :- 1) As no single naturally available material is generally suitable for blanketing ,blending of different type of mechanically produced crushed material are required. Blending of material shall be done with either. (a) Drum type blenders or by (b) Pug mill type blenders as specified in IRS-GE-2. 2) The work within 3.5m from existing track centre shall be done only in traffic block, during day/night only. 3) The rate is inclusive of lightening arrangement arrangement required during night working.</p>	Cum	10129.00	748.09	75,77,403.61
3	3/NS	Carriage of earth/Debris by mechanical transport including loading, unloading & stacking etc. for lead upto 2.00 km beyond JNPT Boundary.	Cum	29582.00	109.76	32,46,920.32

S.N.	Item No	Description	Unit	Quantity	Estimated Rate (Rs)	Estimated Amount (Rs)
4	4/NS	Providing and removing barricading with the help of portable fencing along the running track where the work is to be done in close vicinity of the track. Fencing shall consist of self supporting steel angles of size 50 x50x6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23x0.23x0.23M placed at c/c distance of 2.0 M along the track. 12 mm dia rods in three horizontal layers tack welded with the angle posts including providing green colour cloth & Retro-reflective tapes in Horizontal & vertical direction. Note : Released material will be the property of the contractor after the completion of work. Rate is also inclusive of protection and maintenance of barricading during construction period.	Meter	1000.00	299.64	2,99,640.00
5	5/NS	Providing & fixing in the carriageway 120 mm thick interlocking concrete unishape pavers (monolithic- single layer precast concrete blocks) of gray cement coloured having average crushing strength 55N/sq.m.m. as per technical specification, placed on average compacted thickness of 25mm to 50mm as per site, uniformly graded river sand cushioning with proper compacting with mechanical compactor with the proper level, grade and camber etc.complete as specified and as directed by the Engineer. as per IS:15658-2006 NOTE :- 1. The contractor will get approval of Engineer/ Employer for source of supply/ manufacturer/ process control before initiating supply. 2. All testing shall be carried out at manufacturer's premises before supply.	Sqm	33375.00	974.94	3,25,38,622.50
6	6/NS	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
		With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	Cum	1164.00	2048.20	23,84,104.80
7	7/NS	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	582.00	2089.36	12,16,007.52
8	8/NS	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications : <b>On W.B.M. @ 0.75 Kg I sqm</b>	Sqm	1940.00	35.28	68,443.20
9	9/NS	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy : For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/10 sqm.	Sqm	1940.00	487.06	9,44,896.40



S.N.	Item No	Description	Unit	Quantity	Estimated Rate (Rs)	Estimated Amount (Rs)
10	10/NS	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete. <b>Note:</b> Seal coat items to be operated only with the prior approval of chief Engineer concerned.	Sqm	1940.00	78.40	1,52,096.00
11	11/NS	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification). <b>25 mm thick</b>	Sqm	1940.00	482.16	9,35,390.40
12	12/NS	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in-charge.	Cum	16500.00	2825.36	4,66,18,440.00
13	13/NS	Providing & laying non pressure NP-4 Class RCC pipe with collars, jointing with 1:2 Cement and ordinary sand mortar including testing of joints but excluding earth work with all labour and material as a complete job. Cement for mortar will be paid separately.				
		1000mm dia. R.C.C. pipe	Metre	100.00	6060.32	6,06,032.00
14	14/NS	Supply, Installation, Testing and commissioning of Dewatering sewage submersible pump (Min 3 HP) suitable for operation of 3 Phase 415 V 50Hz AC supply	Per Pump	2.00	21756.00	43,512.00
15	15/NS	Supply, Installation, Testing and commissioning of starter panel suitable for operation of 3 Phase Motor upto 30 AMPS rating with all safety measures including necessary wiring required upto submersible pump.	Per Panel	2.00	9800.00	19,600.00
		<b>Total of Schedule 'D'</b>				<b>10,71,93,636.00</b>

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra**

**Schedule 'E' (Supply of Ballast)**

S. No.	Description of Item	Unit	Qty	Estimated Rate (Rs)	Estimated Amount (Rs)
1	<p><b>Supply of machine-crushed stone ballast on cess</b> as per RDSO specifications for track ballast: IRS-GE-1 of June, 2004 from outside railway limits stacked in specified quantities alongside the proposed alignment on either side of track, in yards and at locations as per site requirement as directed by the Engineer.</p> <p>Note 1: Payment will be made on actual stack measurement for gross quantities without any deduction for voids in following stages: (i) 95% on receipt at site, acceptance, measurement, account, proper storage and protection against loss, damage or deterioration; and (ii) balance 5% after training out.</p> <p>Note 2: i) Wherever sufficient railway land is not available, contractor will have to arrange land for supply and stacking of ballast at his own cost for which extra payment as per item no. 3001a will be admissible. ii) The rate also includes levelling, dressing of ground for stacking of ballast.</p>	Cum	7276.00	793.80	57,75,688.80
<b>Total of Schedule 'E'</b>					<b>57,75,688.80</b>

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra****Schedule 'F' (P.Way Supply other than steel)**

S. No.	RVNL SBOQ no.	Description of Item	Unit	Qty	Estimated Rate (Rs)	Estimated Amount (Rs)
1	4001	<b>Supply of P.Way Components</b>				
1a)	4001 a	GFN Liners to RDSO Drg. No. T-3706.	Each	23500.00	12.60	2,96,100.00
1b)	4001 c	Composite Grooved Rubber Sole Plates (CGRSP) to RDSO Drg. No. T-6618	Each	11750.00	48.43	5,69,052.50
2	4002	<b>Supply of glued insulated rail joints G3 L 6.5 M long with 10 MM thick end post on PSC sleepers. Rails will be issued free of cost by the Employer @ 6.5 M for each joint.</b>				
2a)	4002 a	60 KG Kg rail section as per RDSO Drg No. RDSO/T-5843	Each	45.00	15130.84	6,80,887.80
3	4003	<b>Supply of Switch Expansion Joints</b> with all fastenings and fixtures complete (excluding liners, ERC, fish plates, fish bolts and nuts) including angle iron for fixing on PSC sleepers and painting. Rails will be issued free of cost by the Employer				
3a)	4003 a	<b>For 60 KG as per RDSO Drawing No. T -4165</b>	Set	5.00	83055.98	4,15,279.90
4	4005	<b>Supply of Check rails of 60 KG, 52 KG, 90 R rail sections for Ballastless track, level crossings, curves, etc.</b> on PSC sleepers including all fittings as per RDSO drawing. Rails will be issued free of cost by the employer.	Meter	3100.00	944.74	29,28,694.00
5	4008	<b>Supply of PSC sleepers for level crossings</b> as per RDSO Drawing No. T-4148 for 60 KG rail.	Each	1155.00	1490.00	17,20,950.00
5a)	NS-4008a	<b>Supply of Curve Sleeper with slack gauge T/4183-86 for 60 Kg rails</b>	Each	1078.00	1714.72	18,48,468.16
5b)	NS-4008a	<b>Supply of Monoblock PSC sleepers for 60 Kg rails</b>	Each	3642.00	1432.19	52,16,035.98
6	4009	<b>Supply of PSC sleepers for SEJ</b> as per RDSO Drawing No. T-4149 for 60 KG rail.	Set	5.00	15060.51	75,302.55
7	4010	Supplying at site of work including leading, loading, unloading and stacking of Special PSC Monoblock Sleepers (pre-tensioned type) for B.G. 1 in 8½ Derailing Switch as per RDSO Drg. No.-T-6068 to suite both 52/60 kg rails as per RDSO Design and IRS Specifications No. T-45-96 (2nd Edition) as amended from time to time with contractor's labour, materials, tools & Plant, equipment and machinery, transport etc complete .	Set	2.00	89650.43	1,79,300.86
8	4012	<b>Supplying at site of work including leading, loading, unloading and stacking PSC turnout sleepers and approach sleepers</b> for fanshaped layout of 60 kg 1 in 8.5 turnout for B.G 60 Kg. (UIC) rail/52 kg rails to RDSO Drg. No. T-4865 Alt-5 (for general layout) and drawings thereof with latest alterations if any, complete set with contractor's labour, materials, tools & Plant, equipment and machinery, transport etc complete .	Set	9.00	235531.72	21,19,785.48
9	4017	Supply of Grooved Rubber Sole Plates for 1 in 8.5 turnouts for layout Drg no. T-4865 with latest alterations if any, complete set for the turnout as per IRS specification for Grooved Rubber Sole Plate (6mm thick) for placing beneath rails Sl. No. T-47-2006 with up to date corrigendum if any	Set	9.00	40548.39	3,64,935.51
<b>Total of Schedule 'F'</b>						<b>1,64,14,792.74</b>

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra****Schedule 'G' (P.Way Supply steel)**

S. No.	RVNL SBOQ no.	Description of Item	Unit	Qty	Estimated Rate (Rs)	Estimated Amount (Rs)
1	4021	<b>Supply of P.Way Components</b>				
1a)	4021 a	ERC to RDSO Drg. No.T-3701	Each	23500.00	67.03	15,75,205.00
2	4022	<b>Supply of Fish plates</b>				
2a)	4022 a	60 KG as per Drawing No. T -1898	Each	175.00	1504.88	2,63,354.00
3	4024	<b>Supply of fish bolts with nuts for 60 KG, 52 KG rails</b> as per RDSO Drawing No.T-1899, T-11501.	Each	700.00	70.47	49,329.00
4	4025	<b>Supply of joggled fish plates</b> (2 No. per set) with 4 pair clamps, 4 No. Bolts & Nuts and 8 No. special washers.				
4a)	4025 a	For 60 KG as per RDSO Drawing No. T -4016/T-5849	Set	20.00	4114.54	82,290.80
5	4029 a	Supply of 60 kg 1 in 8.5, 6400mm Overriding Curved Switch conforming to RDSO Drg. No. T-4966 with latest alteration, if any complete with all parts as listed in the drawing with check rails (excluding fish plates, Fish bolts & nuts, GRSPs, Liners and ERCs). Note: Rails will be issued free of cost by the employer.	Set	9.00	159416.80	14,34,751.20
6	4031 a	Supply of 60 KG 1 in 8½ Derailing Switch conforming to RDSO Drg No. 6068 with latest alteration, if any complete with all parts as listed in the drawing including GRSPs (excluding fish plates, fish bolts & nuts, Liners and ERCs). Note: Rails will be issued free of cost by the employer.	Set	2.00	121149.32	2,42,298.64
7	4034	Supply of 60 kg CMS Crossing for 1 in 8½ PSC Layout conforming to Drg No. T-4967 with latest alterations complete with all parts as listed in the drawing (excluding fish plates, fish bolts & nuts, GRSPs, Liners and ERCs).	Set	9.00	191311.09	17,21,799.81
8	4038a	<b>Fabricating &amp; supplying of 60 Kg improved SEJ</b> with 65 mm max. gap as per Drawing No. RDSO/T-6922 with latest alteration including all fixtures and fastenings etc complete as directed by Engineer-in-charge. (Rails will be supplied free of cost by the Employer)	Set	5.00	221586.92	11,07,934.60
<b>Total of Schedule 'G'</b>						<b>64,76,963.05</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.
- c) Quality Assurance documents.
- d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the employer's / Railway's Representative, required for maintenance purposes.

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra**

**Schedule 'H' (P.Way Linking)**

S. No.	RVNL SBOQ no.	Description of Item	Unit	Qty	Estimated Rate (Rs)	Estimated Amount (Rs)
1	5001	<b>Leading upto 100m lead and putting in track/formation of ballast from measured stacks by contractor's own means</b> and putting the same into track uniformly to form profile as per IRPWM in following phases: (i) Laying of first layer to form level bed for sleepers with top surface dressed including mechanical compaction; (ii) Filling ballast in cribs and making up shoulders; and (iii) Recouping shortages after each packing and finally making profile as per IRPWM.	Cum	7276.00	133.04	9,67,999.04
2	5004	<b>Cutting of 60 KG, 52 KG, 90 R rails</b> with contractor's Abrasive Disc Cutter complete including men, material, fuel etc. true to square.	Each	100.00	424.00	42,400.00
3	5005	<b>Drilling 26.5 MM, 32 MM diameter holes</b> with Rail Drilling Machine in web of 60 KG, 52 KG, 90 R rails in track or on cess at correct locations including chamfering.	Each	700.00	102.35	71,645.00
4	5007	<b>Installation of BG track</b> as per methodology specified in para 4.0 of Section 5: Specifications in the Bidding Documents or any other methodology approved by the Employer in all locations e.g. straight, curves, bridges, level crossings, yards, etc including installation of SEJ and glued joints including installation and dismantling of auxiliary track. Note: 60% of the rate shall be paid after placement of the sleepers, rails, fastening, initial squaring and correcting sleepers spacing	Track Meter	3815.00	716.18	27,32,226.70
5	5008	<b>Installation of PSC fan shape turnouts, derailing switches</b> 60 KG / 52 KG including lead rails as per RDSO layout drawings including katcha packing with bars or off track tampers for 20 KMPH speed. Activities of rail cutting, drilling of holes, welding of joints and transportation are not included in this item and shall be paid separately under relevant items.				
5a)	5008 b	Turnouts 1 in 8-1/2	Each	9.00	61770.32	5,55,932.88
5b)	5008 c	Derailing switches	Each	2.00	15524.09	31,048.18
6	5011	<b>Slewing of B.G. track</b> comprising 60 KG, 52 KG, 90 R rails on all types of sleepers to any density under traffic block upto a lateral slew of 150 MM or part thereof including removing and relocating existing ballast, packing with bars or off track tampers to achieve alignment, longitudinal levels and cross levels for running trains at a minimum speed of 20 KMPH on restoring traffic after the block and dressing up to correct profile.	Track Meter	200.00	171.07	34,214.00
7	5012	<b>Pre-tamping and post tamping works, reconditioning of tamping tools, and providing all consumables for first-round of packing</b> by railway's heavy on track tampers and dynamic track stabiliser of straight/curved main line and loop line track, sidings, derailing switches, and turnouts. Note: 1. For the purpose of payment: a. Length of turnout assembly, measured from stock rail joint to heel of crossing, shall be multiplied by 1.5 for conversion to equivalent ordinary track; and b. Derailing switches, bridges, level crossings, curves, etc shall be considered as ordinary track. 2. Transfer of machines from the existing running lines to the place of work and back to the running lines after the work is over shall be done at contract's expenses without payment of extra cost. 3. Railways heavy on track machines along with crew/operator shall be made available without any hire charges. 4. 80% payment will be made if Dynamic track stabiliser not used.	Track Meter	3815.00	33.97	1,29,595.55

S. No.	RVNL SBOQ no.	Description of Item	Unit	Qty	Estimated Rate (Rs)	Estimated Amount (Rs)
8	5013	<b>Pre-tamping and post tamping works, reconditioning of tamping tools, and providing all consumables for second-round of packing by railway's heavy on track tampers and dynamic track stabiliser of straight/curved main line and loop line track, derailing switches, and turnouts for raising speed to sectional speed.</b> Note: 1. For the purpose of payment: a. Length of turnout assembly, measured from stock rail joint to heel of crossing, shall be multiplied by 1.5 for conversion to equivalent ordinary track; and b. Derailing switches, bridges, level crossings, curves, etc shall be considered as ordinary track. 2. Transfer of machines from the existing running lines to the place of work and back to the running lines after the work is over shall be done at contract's expenses without payment of extra cost. 3. Railways heavy on track machines along with crew/operator shall be made available without any hire charges. 4. 80% payment will be made if Dynamic track stabiliser not used.	Track Meter	3815.00	22.63	86,333.45
9	5014	<b>Anticorrosive painting of 60 KG, 52 KG rails.</b> Painting to be done prior to installation on sleepers including touching of paints in areas damaged during fixing.	Track Meter	382.00	67.91	25,941.62
10	5016	<b>Provision of Buffer stop of 60 KG, 52 KG, 90 R rail section</b> as per plan including painting with luminous paint etc. as directed by the engineer. Note: Rail required for this item will be issued free of cost by the Employer.	Each	4.00	46085.41	1,84,341.64
11	5018	<b>Laying of Sand humps / Snag dead ends</b> as per RDSO standard drawing No: T-347 complete, with contractor's materials (excluding rails and PSC sleepers, fittings and fastenings which will be issued free of cost by the Employer within the Project area), machinery and labour. Sand hump will be treated as a complete item including laying of track beyond back of crossing, making brick channels, duly filled with clean sand including dressing/raising of earth work as per the requirement at site, complete as per the standard railway drawings and specifications.	Each	1.00	202614.37	2,02,614.37
12	5019	<b>Lifting of track in stages of maximum 75 MM</b> at a time under traffic block including making up formation and one round of katcha packing for getting required longitudinal and cross levels to make the track fit for 20 KMPH as per provisions in IRPWM Para 233 and as directed by the Engineer. (Rate will be for each stage lifting by 75 MM).	Track Meter	200.00	33.97	6,794.00
13	5020	<b>Lowering of track in stages of maximum 75 MM</b> at a time under traffic block including removing ballast, cutting of formation and disposing of surplus cut spoils as directed by the engineer and one round of katcha packing for getting required longitudinal and cross levels to make the track fit for 20 KMPH speed as per provisions in IRPWM Para 234 and as directed by the Engineer. Existing ballast shall be put back into the track after screening without any extra payment and shortage of ballast will be recouped and paid for under the relevant item. (Rate will be for each stage of lowering by 75 MM).	Track Meter	200.00	274.87	54,974.00
14	5021	<b>Painting of station number, super elevation and versine at each station of curve</b> on the inside web of outer rail with stencils of specified height in black enamel paint on surface of specified length painted with two coats of yellow enamel paint over a primer coat painted after cleaning the surface free from dust and dirt.	Station	100.00	80.40	8,040.00
15	5031	<b>Transportation of PSC sleepers including special sleepers</b> for SEJs, check rails, guard rails sleepers from the place of issue (in case of sleepers issued free of cost by RITES/IPRCL) and from stacking place acceptable to Engineer at work site (in case of supplied by the contractor) to their final location of laying. Note: (1) 100% payment shall be made on transportation to designated site as directed by employer/engineer. (2) The item is intended for transportation of sleepers issued free of cost by the employer or supplied by the contractor in P.Way supply schedule in the project area. However, if the sleepers to be issued free of cost by the employer are made available at the sleeper plant and loading of sleepers is done by concrete sleeper plant even then the rate quoted in the item shall be applicable subject to recovery @ Rs.10/- per track sleeper. (3) Rate includes multiple handlings.				

S. No.	RVNL SBOQ no.	Description of Item	Unit	Qty	Estimated Rate (Rs)	Estimated Amount (Rs)
15a)	5031 a	<b>Average lead upto 2 KM</b> (from place of issue to middle point of kilometer of laying in track)	Sleeper	5875.00	72.77	4,27,523.75
15b)	5031 b	<b>Incremental rate for lead beyond 2 KM for every km additional lead upto 30 kms</b> over item (a) above	Sleeper KM	164500.00	2.42	3,98,090.00
15c)	5031 c	Incremental rate for lead beyond 30 KM for every KM additional lead upto 60 KM over item (a) & (b) above	Sleeper KM	170375.00	0.92	1,56,745.00
15d)	5031 d	<b>Incremental rate for lead beyond 60 KM for every KM additional lead upto 250 KM over item (a), (b) &amp; (c) above</b>	Sleeper KM	1116250.00	0.54	6,02,775.00
16	5033	<b>Painting of particulars of 1 in 16, 1 in 12 and 1 in 8 ½ turnouts and derauling switches</b> including turn in curves on the inside web of outer rail with stencils of specified height in black enamel paint on surface of specified length painted with two coats of yellow enamel paint over a primer coat painted after cleaning the surface free from dust and dirt.	Turn Out	9.00	1131.64	10,184.76
17	5034	<b>Fouling marks</b> of size 1500x250x225 MM in M20 grade cement concrete including engraving the letters "FM", white washing with two coats and painting the letters in black enamel paint indicating the numbers of vehicles duly fixed at site.	Each	11.00	636.30	6,999.30
18	5035	<b>Maintenance of track after commissioning</b> at normal sectional speed till track is handed over to the Railway by deploying 1 gang of 25 suitable persons headed by qualified P. Way supervisor. Attention to track to be done as per requirement to keep the track parameters within prescribed limits as per IRPWM for the sectional speed. Note: In case additional/less gang deployment is done as per direction of the engineer, the payment shall be appropriated proportionately	Week	52.00	45923.12	23,88,002.24
19	5045	Shifting of P. Way materials such as rails, sleepers, points and crossings, fastenings etc. and stacking at the nominated place upto 250 m lead as directed by Engineer-in-Charge including all lift, labour, tools and machinery etc. complete				
19a)	a)	For lead upto 50 m	MT	1261.00	141.82	1,78,835.02
19b)	b)	Extra for lead for every 50 m or part thereof beyond initial 50 m lead	MT	841.00	20.76	17,459.16
<b>Total of Schedule 'H'</b>						<b>93,20,714.66</b>

**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra  
Schedule 'I' (P.Way Linking Supply & Installation)**

S. No.	RVNL SBOQ no.	Description of Item	Unit	Qty	Estimated Rate (Rs)	Estimated Amount (Rs)
1	5053	Alumino thermit welding of 60kg/52 kg rail joints or combination joints of 60kg/52kg rail by pre-heat (SKV) welding technique using compressed air petrol/LPG for preheating, three piece moulds and automatic tapping thimbles with all labour, materials including supply of portion, tools and plants, aligning of rails, placing & fixing of mould, preheating, welding, mechanised trimming, grinding with profile grinder (including riser), testing, marking, painting with one coat of high build epoxy paint (two pack conforming to RDSO specification no. M&C/PCN-111/88) on the welded area up to 10 cm on either side. The work is to be completed in all respects as per IRS: T-19-1994 with latest updates and in accordance with "RDSO Manual for Fusion Welding of Rails by Alumino Thermic Process with up to date correction Slips. The work to be done under supervision of trained welding supervisor and carried out by trained welder having valid competency certificate from RDSO/TPP, Lucknow. Ultrasonic testing of welded joints shall be paid separately under relevant items. Note: 1) In case only portion is supplied by the contractor but welding is not done the rate shall be payable @ 60% of the item rate. 2) In case welding portion is supplied free of cost by RITES/IPRCL, the rate shall be payable @ 40% of the item rate. 3) The above provision in note (1) & (2) shall be operated with the specific approval of CPM.	Each	350.00	6513.57	22,79,749.50
2	5055	Manufacturing supplying and fixing retro reflective sign boards made up of 2mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type-IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25mmx25mmx3mm along with theft resistant measures, mounted and fixed with 2 nos. M.S. angles of size 35mmx35mmx5mm to a vertical post made up of ISMC 100x50 @9.56kg/m welded with base plate of size 100mmx100mmx5mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical ISMC support to be painted in black and white colours). Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including fixing in ground with 1:2:4 cement concrete base of 450mmx450mmx450mm including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge.				
2a)	5055 a	Cautionary and warning sign boards of equilateral triangular shape as per para 918(2) of IRPWM having each side of 900mm Speed Breaker Board of size 600mmx 200 mm with support length of 3650mm	Each	1.00	7437.29	7,437.29
2b)	5055 b	C34, C35, C36 and C37 Boards as per motor vehicle act for unmanned and manned LCs as per IRC of equilateral triangular shape having each side 900mm normal and vertical strip board of size 300x900mm with support length of 2400mm	Each	1.00	6838.49	6,838.49
2c)	5055 c	Warning sign Board for unmanned LC para 916(2) of IRPWM of size 525x675mm with support length of 3300mm	Each	1.00	5698.70	5,698.70
2d)	5055 d	Caution Indicator board of fish tail type as per Annexure 8/4 para 807 and 808 of IRPWM of size 400x1400 mm with support length of 3650mm	Each	1.00	7638.29	7,638.29
2e)	5055 e	Termination Indicator boards as per Annexure 8/4 para 807 and 808 of IRPWM of size 1.0m dia with support length of 3850mm	Each	1.00	8995.79	8,995.79
2f)	5055 f	Speed Indicator board as per Annexure 8/4 para 807 and 808 of IRPWM of size 1.0m side triangle for various speeds of 10, 20, 30, 45, 60, 75, 80, 90 kmph with support length of 3600 mm	Each	1.00	7097.56	7,097.56
		<b>Total of Schedule 'I'</b>				<b>23,23,455.62</b>



**Name of Work:- Construction of Roadbed, RUB & Minor Bridges, Track Linking and Drainage Facility in Connection with Rail Connectivity to Proposed Dry Port of JNPT near Sindi station on Nagpur- Wardha Section of Nagpur Division, Maharashtra****Schedule- J : Site Facilities**

S. No.	Description of Item	Qty	Unit	Estimated Rate (Rs)	Estimated Amount (Rs)
9001	<p><b>Providing site offices for Employer</b> with Contractor's material, Labour, Tools and Plant, Equipment etc. including provision of Water Supply, Drainage, Power arrangements, office maintenance as per the details mentioned in clauses 3.1 to 3.2.8 &amp; 3.5 to 3.5.2 of Chapter 3 (Site Facilities for the Employer and the Engineer) of Section 5 (Work's Requirement) of Tender Documents.</p> <p>Note 1: This item is provided with the contention that new site offices will be constructed for this purpose and 75% payment of the accepted rates will be made after making available functional office, balance 15% payment shall be made at the end of the completion period and the remaining 10% will be paid after clearance of site by the contractor.</p> <p>Note 2: Alternatively if suitable accommodation is available on hire basis at suitable location acceptable to the employer, the contractor can arrange the same under the item but in such a case the payment shall be regulated as below.</p> <p>(a) 10% payment shall be made on completion of one month from the date of making available the office fit for functioning.</p> <p>b) Remaining 90% payment shall be paid in equal monthly instalments that is <math>(0.9 \times \text{Quoted rate}) / (\text{Stipulated Completion period in months} + \text{defect liability period in months})</math>.</p> <p>Note 3: In case stipulated period gets extended, payment on monthly basis, under this item, in such extended period, shall be made as under;</p> <p>(i) in case of new construction @ <math>[(54\% \text{ of Quoted rate}) / (\text{Stipulated Completion period in months} + \text{defect liability period in months})]</math> per Sq.m. of Plinth area.</p> <p>(ii) in case of accommodation on hire @ <math>[(90\% \text{ of Quoted rate}) / (\text{Stipulated Completion period in months} + \text{defect liability period in months})]</math> per Sq.m. of Plinth area.</p>	60.00	Per Sq.m. of Plinth area	12488.14	749288.40
9002	<p><b>Providing Furniture</b> as given under clauses 3.3, 3.3.1 of Chapter 3 (Site Facilities for the Employer ) of Section 5 (work's Requirement) of Tender Documents.</p> <p>Note: Payment shall be made @ 75% of the accepted rate after making available the furniture items in functional office, balance 15% payment shall be made at the end of the completion period and the remaining 10% will be paid after clearance of site by the contractor.</p>	1.00	L S Per Site Office	588000.00	588000.00
9003	<b>Providing Road Vehicle</b> mentioned below for the use of Engineer/Employer as per the Conditions mentioned in Clause 3.4.3, i.e 3.4.3.1 to 3.4.3.3 of Chapter 3 (Site Facilities for the Employer and the Engineer) of Section 5 Work's Requirement) of Tender Documents.				
9003 a	<b>Tavera , Innova or similar</b>	30.00	Vehicle months	52135.02	1564050.60
9003c	Extra for running and maintenance of every additional km over and above 4000 kms as specified in item 9003 (a)	9000.00	Per km	12.13	109191.60
	<b>Total of Schedule 'J'</b>				<b>3010530.60</b>