

**CAO-C-HQ-ENGINEERING/SOUTH EAST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** DCE-I-R-26-27-04

**Closing Date/Time:** 07/07/2026 15:00

**CAO/C** acting for and on behalf of The President of India invites E-Tenders against Tender No **DCE-I-R-26-27-04** Closing Date/Time 07/07/2026 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

**1. NIT HEADER**

<b>Name of Work</b>	Construction of 4th line in Sarona(SZB) and Kumahari(KMI) yard and civil work in connection with "Replacement of PI with EI at Sarona (SZB) and Kumhari (KMI) station of Raipur Division".		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	07/07/2026 15:00	<b>Date Time Of Uploading Tender</b>	09/06/2026 18:12
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	332015820.93	<b>Tendering Section</b>	CAO/CON
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	6640300.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	12 Months
<b>Contract Type</b>	Works - General	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	23/06/2026		
<b>Are JV allowed to bid</b>	Yes	<b>Number of JV Member Allowed</b>	3
<b>Are Consortium allowed to bid</b>	No	<b>Number of Consortium Member Allowed</b>	0
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () A-All items covered under DSR-2023</b>							181208242.73	Above/ Below/P ar
1	Please see Item Breakup for details.				178091639.05	1.75	181208242.73	
	<b>Description:-</b> The schedule is for Building and other associated civil works covered under DSR-2023 (Note-The quantities given in item breakup are indicative only. All items of the DSR-2023 can be operated at the same rate and conditions for this schedule)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () B-All items covered under USSOR-2021</b>							87885327.25	Above/ Below/P ar
1	Please see Item Breakup for details.				87885327.25	AT Par	87885327.25	
	<b>Description:-</b> The schedule is for bridge and its associated civil work covered in 'USSOR-2021 for Bridge works and other works' (Except Ballast and P-way works)(The quantities given in item breakup are indicative only. All items of the USSOR-2021 will be operated at the same rate and conditions for this schedule)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () C-Items covered under USSOR-2021 (Ballast)</b>							26423270.00	Above/ Below/P ar
1	Please see Item Breakup for details.				26423270.00	AT Par	26423270.00	
	<b>Description:-</b> Supply and Spreading of Ballast on USSOR-2021							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit

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<b>Schedule ()</b> D-All items covered under USSOR-2021(P-way Works)							32710500.95	Above/ Below/P ar
1	Please see Item Breakup for details.			32710500.95	AT Par	32710500.95		
	<b>Description:-</b> P-way Works (The quantities given in item breakup are indicative only. All items of the USSOR-2021 will be operated at the same rate and conditions for this schedule)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ()</b> E-Non DSR/USSOR Items							3788480.00	Above/ Below/P ar
1	1	1000.00	Metre	3788.48	3788480.00	AT Par	3788480.00	
	<b>Description:-</b> Metal beam Crash Barrier - Type-A, "W" : Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level firmly fixed to the ground by means of foundation with M-15 grade cement concrete 30 x 30 x 110 cm, all steel parts and fittings to be galvanised by hot dip process, all fittings to confirm to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 811)							

### 3. ITEM BREAKUP

<b>Schedule</b>	Schedule A-All items covered under DSR-2023					
<b>Item- 1</b>	The schedule is for Building and other associated civil works covered under DSR-2023 (Note-The quantities given in item breakup are indicative only. All items of the DSR-2023 can be operated at the same rate and conditions for this schedule)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	3325	177.5	590187.5
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	900	196	176400
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	130	2123.75	276087.5
	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
4	2.35.3.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	Sqm	700	310.05	217035

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	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
5	4.1.2	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	12	8340.85	100090.2
6	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	80	7878.5	630280
7	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	320	7294.7	2334304
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
8	4.2.2	1:1 1/2:3 (1 cement : 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	21	10357.55	217508.55
9	4.2.5	1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1270	9311.4	11825478
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
10	4.3.1	Foundations, footings, bases for columns	Sqm	600	392.15	235290
11	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm	3485	842.5	2936112.5
	4.5S	CEMENT CONCRETE PRECAST				
	4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required Centering complete.				
12	4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20mm nominal size derived from natural sources)	cum	175	10105.1	1768392.5
	4.10S	DAMP-PROOF COURSE				

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13	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	Sqm	190	495.75	94192.5
14	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per bag of 50 kg cement used	440	18.15	7986
	4.14S	<b>MISCELLANEOUS</b>				
	4.20	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete.				
	4.20.1	All works upto plinth level :				
15	4.20.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	950	9212.6	8751970
	4.20.2	All works above plinth and upto floor V level				
16	4.20.2.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	60	9568.25	574095
	5.0	<b>REINFORCEMENT CEMENT CONCRETE</b>				
	5.9S	<b>FORM WORK</b>				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
17	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	540	392.15	211761
18	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	4100	842.5	3454250
19	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	2630	927.25	2438667.5
20	5.9.4	Shelves (Cast in situ)	Sqm	2510	927.25	2327397.5
21	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	1720	736.4	1266608
22	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	235	961.3	225905.5
23	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	60	764.95	45897
24	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	340	951.1	323374
	5.12S	<b>PRE-CAST RCC</b>				

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25	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	105	10585.9	1111519.5
	5.22S	<b>STEEL REINFORCEMENT</b>				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
26	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	68150	107.85	7349977.5
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
27	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	124700	107.85	13448895
	5.33S	<b>DESIGN MIX CONCRETE</b>				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.1	<b>All works upto plinth level</b>				
28	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	1327	9504.75	12612803.25
	5.33.2	<b>All works above plinth level upto floor V level</b>				
29	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	1017	9860.4	10028026.8
30	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	550	733.5	403425

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31	5.36	Providing and placing in position precast reinforced cement concrete waffle units, square or rectangular, as per design and shape for floors and roofs in 1:1 1/2:3 (1 Cement : 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 10 mm nominal size derived from natural sources), including flush or deep ruled pointing at joints in Cement mortar 1:2 (1 Cement : 2 Fine sand), making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting etc, form work in precasting, handling, hoisting, centering and erection complete for all floor levels but, excluding the cost of reinforcement.	cum	14	33018.75	462262.5
	6.0	<b>MASONRY WORK</b>				
	6.1S	<b>General</b>				
	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:				
32	6.2.2	Cement Mortar 1:6 (1 cement : 6 coarse sand).	cum	635	6295.15	3997420.25
	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
33	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4	9105.95	36423.8
	6.12S	<b>HALF BRICK MASONRY</b>				
	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
34	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	123	1123.8	138227.4
	6.26S	<b>EXPOSED BRICK WALL</b>				
	6.32	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :				
35	6.32.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	780	9095.05	7094139
	6.45	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level				
36	6.45.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	860	1105.8	950988
	8.0	<b>CLADDING WORK</b>				
	8.1S	<b>General</b>				

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	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
37	8.2.2.2	Area of slab over 0.50 sqm	Sqm	53	5136.3	272223.9
	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
38	8.3.2	Granite work	Metre	80	510.95	40876
	8.20S	STONE WORK DRY CLADDING				
39	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	6	1267.95	7607.7
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
40	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	44	3473.85	152849.4
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
41	9.48.1	Fixed to steel windows by welding	Kg	970	219.1	212527
	9.57S	COPER OXIDISED MILD STEEL FITTINGS (COPPER OXIDISED AS PER IS: 1378)				
	9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete (Copper oxidised as per IS 1378)				
42	9.62.1	300x16 mm	Each	12	216.55	2598.6
	9.72S	BRASS FITTINGS				

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	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
43	9.74.1	250x10 mm	Each	12	441.6	5299.2
	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
44	9.75.2	250x16x5 mm	Each	12	308	3696
	9.81	Providing and fixing bright finished brass handles with screws etc. complete:				
45	9.81.2	100 mm	Each	24	234.7	5632.8
46	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	Each	24	983.15	23595.6
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.96	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 :				
47	9.96.2	250x16 mm	Each	48	260.6	12508.8
	9.97	Providing and fixing aluminium tower 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 necessary screws etc. complete :				
48	9.97.4	150x10 mm	Each	28	82.55	2311.4
	9.100	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 :				
49	9.100.2	100 mm	Each	56	59.55	3334.8
	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
50	9.101.2	Twin rubber stopper	Each	20	72.35	1447
	9.105S	GYPSUM BOARD PARTITIONS				

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51	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	30	492.7	14781
	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
52	9.120.1	30 mm thick plain PVC door shutters	Sqm	72	3182.95	229172.4
	10.0	<b>STEEL WORK</b>				
	10.1S	<b>General</b>				
53	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	2500	117.35	293375
54	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	140700	133.7	18811590

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55	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	28	11439.6	320308.8
	10.5	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
56	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	Sqm	130	5804.35	754565.5
	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
57	10.16.1	Hot finished welded type tubes	Kg	5500	194.4	1069200
58	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	1700	97.2	165240
59	10.20	Providing and fixing bolts including nuts and washers complete.	Kg	5500	159.35	876425
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
60	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	3135	172.6	541101
61	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	3000	772.4	2317200
	11.0	<b>FLOORING</b>				
	11.15	<b>General</b>				
	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				

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62	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	1430	614.2	878306
	11.16S	<b>TILE FLOORING</b>				
	11.20	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
63	11.20.1	Light shade pigment using white cement	Sqm	3565	1402	4998130
	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
64	11.21.1.1	Acid and alkali resistant tile	Sqm	300	1738.15	521445
	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
65	11.21.2.1	Acid and alkali resistant tile	Sqm	430	1884.9	810507
	11.26S	<b>KOTA STONE FLOORING</b>				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
66	11.26.1	25 mm thick	Sqm	8310	1948.25	16189957.5
67	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	160	2354.7	376752
	11.37S	<b>CERAMIC GLAZED TILES</b>				
68	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	40	1096.55	43862
	11.41S	<b>VITRIFIED FLOOR TILES</b>				

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	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
69	11.41.2	Size of Tile 600x600 mm	Sqm	1525	1553.45	2369011.25
	12.0	ROOFING				
	12.1S	SHEET ROOFING				
70	12.20	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.	Sqm	12	709.75	8517
	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
71	12.21.1	In 75x75 mm deep chase	Metre	170	305.15	51875.5
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
72	12.41.1	75 mm diameter	Metre	80	248.8	19904
73	12.41.2	110 mm diameter	Metre	450	377.4	169830
	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.4	Single tee without door				
74	12.42.4.2	110x110x110 mm	Each	20	221.35	4427
	12.42.5	Bend 87.5 degree				
75	12.42.5.2	110 mm bend	Each	70	150.35	10524.5

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76	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	1140	738.65	842061
	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
77	12.51.1	Ridges plain (500 - 600mm)	Metre	100	532.35	53235
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
78	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	100	347.05	34705
79	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	130	333.35	43335.5
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
80	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	8675	383	3322525
	13.16S	6 mm CEMENT PLASTER				
81	13.18	Neat cement punning.	Sqm	326	79.95	26063.7
	13.20S	PEBBLE DASH PLASTER				
82	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	4900	262.7	1287230
	13.37S	INTERIOR FINISHING				
	13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
83	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	5230	185.65	970949.5
	13.44S	EXTERIOR FINISHING				

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	13.44	Finishing walls with water proofing cement paint of required shade :				
84	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	5140	116.9	600866
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
85	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	520	170.7	88764
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
86	13.61.1	Two or more coats on new work	Sqm	460	155.9	71714
	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.				
87	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sqm	5200	73.95	384540
	15.0	<b>DISMANTLING AND DEMOLISHING</b>				
	15.1S	<b>General</b>				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
88	15.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	cum	40	2434.25	97370
	16.0	<b>ROAD WORK</b>				
	16.1S	<b>ROADS</b>				
	16.3	Supplying and stacking at site.				
89	16.3.10	Moorum	cum	21450	768.25	16478962.5
	17.0	<b>SANITARY INSTALLATIONS</b>				
	17.1S	<b>General</b>				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
90	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1	6767.4	6767.4
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
91	17.2.2	W.C. pan with ISI marked black solid plastic seat and lid	Each	2	6383.25	12766.5

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	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
92	17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	Each	2	2301.75	4603.5
93	17.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	Each	2	4048.65	8097.3
94	17.31	Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	2	1607.95	3215.9
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
95	17.35.1.1	Sand cast iron S&S pipe as per IS: 1729	Metre	260	1151.9	299494
	18.0	<b>WATER SUPPLY</b>				
	18.7S	<b>C.P.V.C. PIPES</b>				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
96	18.8.2	20 mm nominal dia Pipes	Metre	3	537.6	1612.8
	18.11	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, including making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				
97	18.11.1	15 mm dia nominal bore	Metre	40	580.45	23218
	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
98	18.12.1	15 mm dia nominal bore	Metre	40	322.15	12886
99	18.12.2	20 mm dia nominal bore	Metre	43	368.6	15849.8
100	18.12.3	25 mm dia nominal bore	Metre	205	467.75	95888.75
101	18.12.6	50 mm dia nominal bore	Metre	40	762.15	30486
	18.15S	<b>BRASS FITTINGS</b>				
	18.16	Providing and fixing brass stop cock of approved quality :				
102	18.16.1	15 mm nominal bore	Each	8	353.25	2826
	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
103	18.17.1	25 mm nominal bore	Each	4	622.4	2489.6
	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	18.21.1	30 cm length				

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104	18.21.1.1	15 mm nominal bore	Each	2	85	170
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
105	18.46.3	25 mm nominal bore	Each	2	439.25	878.5
106	18.46.6	50 mm nominal bore	Each	2	823.8	1647.6
107	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	2500	11	27500
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
108	18.49.1	15 mm nominal bore	Each	4	506.8	2027.2
	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
109	18.51.1	15 mm nominal bore	Each	4	798.95	3195.8
	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
110	18.52.1	15 mm nominal bore	Each	8	670.45	5363.6
	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
111	18.53.1	15mm nominal bore	Each	4	574.3	2297.2
	21.0	ALUMINIUM WORK				
	21.1S	General				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				

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	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
112	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	550	598.6	329230
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
113	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	210	1176.8	247128
	22.0	<b>WATER PROOFING</b>				
	22.15	<b>General</b>				
114	22.22	Providing and mixing integral crystalline admixture for water proofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc. at the time of transporting of concrete into the drum of the ready-mix truck ,using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50 mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.	Kg	2570	388	997160
	23.0	<b>RAIN WATER HARVESTING &amp; TUBEWELLS</b>				
	23.15	<b>General</b>				
	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
115	23.3.2	150 mm nominal size dia	Metre	500	793.25	396625
					<b>Total</b>	<b>178091639.05</b>
<b>Schedule</b>	Schedule B-All items covered under USSOR-2021					

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<b>Item- 1</b>		The schedule is for bridge and its associated civil work covered in 'USSOR-2021 for Bridge works and other works' (Except Ballast and P-way works)(The quantities given in item breakup are indicative only. All items of the USSOR-2021 will be operated at the same rate and conditions for this schedule)				
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	011010	Preparation of foundation for Embankment by clearing, grubbing, stripping top soil (average 150 mm) and stacking beyond foundation area, thereafter ploughing and pulverizing 150 - 200 mm of top of soil with tractor trolley, mixing water to achieve OMC with water sprinkler or left for natural drying, as required, and compaction with vibratory roller of suitable capacity to achieve 98% MDD for laying first layer of soil for embankment construction.	100 Sqm	27500.00	521.74	143478.50
2	011020	Benching of existing embankment manually in steps of 30 cm height for doubling/tripling works in running line to provide proper amalgamation between the old and new embankments as per RDSO latest Specifications and guidelines RDSO/2020//GE: IRS-0004 to the entire satisfaction of Engineer in-charge. The item includes uprooting and disposing of all the vegetation, all lift, descends, ascends and additional earthwork required for filling due to removal of earth in benching in existing bank. Note: (1) The benching Work shall be done for a maximum height of 0.90 m at any time based on the progress of earthwork starting from toe of the embankment. (2) Benchng work shall be certified and recorded before starting the earth work. (3) Unit for payment shall be km per metre height of the Bank. Height here means representative average height of the bank in the specified km taken from cross sectional measurements for earthwork. (4) Since the rate includes earthwork in steps, payment under this item shall be made after completion of earthwork to that level. (5) Cut soil from bank shall not be used in embankment construction and disposed off away from bank as per the direction of Engineer-in-charge.	Kilometre	5.00	137425.37	687126.85

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		Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, platforms etc. with contractor's own earth conforming to Soil Quality Class SQ1/SQ2/SQ3, after preparation of foundations as applicable, benching in existing banks wherever required, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as per R D S O Specifications: RDSO/2020/GE: IRS-0004 with latest correction slips. Note: 1) Foundation preparation, Benching including additional earthwork on account of this, wherever required, shall be paid extra under relevant schedule item for benching. 2) Payment for Earthwork under this item shall be made based on the cross section measurements calculated (i) with original ground profile of existing bank based on initial ground levels before doing benching and (ii) final profile of the bank worked out with final levels as per prevailing guidelines.				
3	011032	Using Soil Class SQ2	cum	143000.00	350.03	50054290.00
		Earthwork in cutting 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, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract.				
4	012011	In all conditions and classifications of soil except rock	cum	78750.00	101.89	8023837.50

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5	012040	Manufacturing of blanketing material by wet mixing of naturally available suitable soil including additional blending with naturally available or manufactured material as required to achieve specified gradation, in designed proportion in Pug mill or wet mix plant to have uniform gradation including all incidental transportation, laying over finished formation in uniform layer(s) with motor grader, compaction with suitable vibratory roller to specified density and finishing to correct profile, complete as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest correction slips.	cum	17600.00	827.35	14561360.00
		Felling trees of girth (measured at a height of 1.0 m above ground level) including leading 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 60cm below ground level or 30 cm below formation level or 15 cm below sub grade level, whichever is lower.				
6	013011	Girth over 30 cm and up to 60 cm	Each	200.00	337.16	67432.00
7	013012	Girth over 60 cm and up to 1.5m	Each	100.00	932.01	93201.00
		Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note: Initially payment of only 40% will be made. Balance 60% will be paid after 3 months of maintenance period, only if the turfing is properly rooted on entire turfed area.				
8	013022	Turfing with planted doob grass.	100 Sqm	27500.00	7020.29	1930579.75
		Providing portable fencing along running track where work is to be done in close vicinity of track, maintaining during execution of work and removing after completion of the work as per direction of the Engineer. Fencing shall consist of self supporting steel angles of size 50mm x 50mm x 6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23m x 0.23m x 0.23m placed at c/c distance of 2m along track. 12mm dia rods in three horizontal layers shall be tack welded with angle posts. Note : Released material will be property of the contractor after completion of work. Cost of cement required for CC blocks shall be paid separately.				
9	013041	With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts.	Metre	5500.00	284.73	1566015.00

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		Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil up to a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.				
10	022011	All kinds of soils	cum	530.00	195.01	103355.30
11	022012	Soft rock (not requiring blasting)	cum	1.00	406.57	406.57
12	022014	Hard rock (blasting prohibited )	cum	1.00	1127.98	1127.98
		Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :				
13	022031	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	440.00	2785.70	1225708.00
14	022034	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	1.00	2952.05	2952.05
15	022040	Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation & Pile cap including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	1.00	2919.98	2919.98

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16	022060	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40mm 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	94.00	2917.50	274245.00
17	022070	Providing and fixing Weep Holes in Abutments, Wing walls and Return walls etc., of new bridges with 110mm dia UPVC pipe Type A ISI marked with all contractor's men, material, transportation, all taxes as per specifications and as directed by Engineer-in-Charge.	Metre	240.00	280.91	67418.40
18	024010	Providing and casting machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls, thrust bed or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	162.00	3211.98	520340.76
		Centering and shuttering including strutting, propping etc. and removal of form for :				
19	025031	All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. up to 5m above ground level	Sqm	825.00	663.57	547445.25
		Supply and using Cement at Worksite				
20	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	72.00	8953.04	644618.88
21	025073	Pozzolana Portland Cement approved brands/makes	MT	217.00	7847.94	1703002.98

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		Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
22	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	50000.00	105.57	5278500.00
23	051010	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 35 kg each with voids filled with spalls complete as per drawing and Technical Specification.	cum	125.00	1909.65	238706.25
24	052020	Providing and laying 300mm thick (average) Dry Stone flooring with boulders of not less than 35kg 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 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 in charge.	cum	25.00	2223.79	55594.75
25	052030	Supply and laying of quarry dust including consolidation, supply of all materials, labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer in charge in case loose slush is encountered at site of foundation before casting the foundation or laying the filtering media.	cum	25.00	943.32	23583.00
26	052200	Painting the HFL mark and Danger level mark, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials, labour, tools, scaffolding, all lead and lift etc. including writing complete.	Each	2.00	284.01	568.02
27	052210	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 an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	Each	2.00	833.64	1667.28

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28	052220	Providing cast in-situ plaques for bridge foundations details of size 45cmx45cmx5cm 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	2.00	1334.55	2669.10
29	052250	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	170.00	371.63	63177.10
					<b>Total</b>	<b>87885327.25</b>
<b>Schedule</b>	Schedule C-Items covered under USSOR-2021 (Ballast)					
<b>Item- 1</b>	Supply and Spreading of Ballast on USSOR-2021					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Manufacturing, supply and stacking of machine crushed Track Ballast conforming to RDSO Specification (IRS-GE-1) with latest correction slips at Railway depot or nominated location. Note: Distance of nearest quarry mentioned in each sub-item is only for the purpose of selecting the items for preparation of estimates/tender schedule, based on the minimum distance between nearest quarry and centre of supply points and will not affect the selection of quarry during physical supply in any way till prescribed specification is met fully.				
1	085015	When distance of nearest quarry is more than 40 km and up to 50 km	cum	22300.00	1142.54	25478642.00
2	123030	Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line & level with all ascents & descents, as directed by Engineer in-charge. Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same & making good formation after completion of work; (b) redistribution & leveling of excess ballast while rolling to obtain uniform plane cambered surface.	cum	22300.00	42.36	944628.00
					<b>Total</b>	<b>26423270.00</b>
<b>Schedule</b>	Schedule D-All items covered under USSOR-2021(P-way Works)					
<b>Item- 1</b>	P-way Works (The quantities given in item breakup are indicative only. All items of the USSOR-2021 will be operated at the same rate and conditions for this schedule)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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		Pulling & positioning of rails accurately on cess including supporting rails, providing required gap and squaring at ends for renewal preparation, as directed by Engineer in-charge.				
1	061011	Up to 40 m long rail panel	RM	660.00	8.79	5801.40
2	061012	More than 40 m long rail panel	RM	2920.00	13.89	40558.80
		Dismantling and removing rail of all section & length from track, laid on any type & density of sleeper by removing fish plates, fastenings & fish bolts and other materials including stacking all released materials within an average distance of 500 metres as directed by Engineer in-charge. Note: 1.Cutting of rails shall be paid separately. 2.Work to be done under traffic block.				
3	061021	For Through Rail Renewal work	TRM	2880.00	43.13	124214.40
4	061022	For Casual/Scattered Rail Renewal work	RM	140.00	34.23	4792.20
		Insertion of rails of all types & length in track, laid on any type & density of sleeper to the specified gauge under traffic block. Rates include fastening of rail with sleepers with standard set of fastenings and fixing of fish plates and bolts or, if required, providing gap for welding and stacking of released material without infringement within 250m as directed by Engineer-in-Charge. Note: Rail drilling and cutting to be paid separately.				
5	061031	For Through Rail Renewal work	TRM	2880.00	44.46	128044.80
6	061032	For Casual/Scattered Rail Renewal work	RM	140.00	36.24	5073.60
		Through Sleeper Renewal (TSR) with PSC sleepers involving removal existing sleepers of any type along with fittings from track, insertion of PSC sleepers lying along the cess / formation / slope / toe within 5 metres height with all fittings to specified spacing, gauge and squareness, one round of through packing to make track fit for 20 kmph speed, dressing of ballast to standard profile, all in accordance with the latest provisions of IRPWM and stacking of all released material neatly at specified places within an average lead of 100 m as directed by Engineer in-charge.				
7	062014	For PSC wider base sleepers - For location of work involving deep screening. (deep screening to be paid separately)	Each	4820.00	191.37	922403.40

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8	063090	Lubrication of ERCs and its liner contact area by removal of ERCs and Metal / GFN liners in rail panel, cleaning of rust / scale of ERC, Metal / GFN liners & SGCI insert by using wire brush, scrapper / sand emery paper etc supply and application of graphite grease, as prescribed by Railway for under side of liners & corresponding area of rail foot & SGCI insert with ERCs and re-fixing the same as per procedure prescribed in latest edition of IRPWM with contractors grease and all other tools & plants complete and as directed. Note: Each ERC in this item shall constitute 1 ERC and its Liner Contact area.	ERC	19280.00	4.75	91580.00
9	063110	Lubrication of gauge face of rail on curves, cross overs, points & crossings, turn-in curves and at locations as required with contractor's grease graphite grade "O" IS 408 and as directed.	RM	14800.00	4.31	63788.00
		Gas cutting of rail of various sections with contractor's tools & plants, as directed by engineer in-charge :				
10	064052	Rail section of 52Kg and above	Each	1300.00	94.69	123097.00
		Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails, sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ portion to make track geometry fit for 30 kmph speed and making ballast profile as per IRPWM. Note: (1) Rail cutting and hole drilling shall be paid separately.(2) One set comprise complete SEJ on both rails at SEJ.				
11	065031	Under Conditions not requiring Traffic Block	Set	9.00	6493.95	58445.55
12	065032	Under Traffic Block Conditions	Set	14.00	7143.34	100006.76
13	065040	Dismantling & removing existing SEJ (Switch Expansion Joint) assembly during line block and its replacement with plain track as of adjoining section with all fittings including rail cutting and drilling of holes and renewal of special sleepers with PSC Sleepers as directed and aligning rails, providing fishplates and bolts/ temporary connection with adequate welding gap with adjoining rail and ensuring proper track geometry for 30 kmph speed. The release material shall be stacked as directed by Engineer in charge.	Set	8.00	8757.80	70062.40

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		Under Traffic Block: Dismantling of existing BG turnouts, diamond crossings and derailing switches with all types of rails and sleeper layout, removing rails, switches, crossings, sleepers & fastenings, leveling of ballast to correct profile & stacking all the released materials, sleepers, fastenings, rails, switches & crossings including segregating & stacking at specified locations in a neat and countable manner, within the lead of 250m & all lift, clear of infringements, crossing of track, if any complete, as directed. Note: 1. This item shall be operated only when existing turnout is replaced either with new turnout in case of TTR or with plain track when existing turnout is no more required at that location. 2. Rail cutting will be paid extra under relevant item. 3. Laying of new turnout or plain track on prepared ballast bed, as required, shall be paid separately under relevant item.				
14	071011	1 in 8½ Turnout (Under Traffic Block)	Set	3.00	29975.49	89926.47
15	071012	1 in 12 Turnout (Under Traffic Block)	Set	11.00	34352.42	377876.62
		Under conditions not requiring Traffic Block: Dismantling of existing BG turnouts, diamond crossings and derailing switches with all types of rails and sleeper layout, removing rails, switches, crossings, sleepers & fastenings, leveling of ballast to correct profile & stacking all the released materials, sleepers, fastenings, rails, switches & crossings including segregating & stacking at specified locations in a neat and countable manner, within the lead of 250m & all lift, clear of infringements, crossing of track, if any complete, as directed - Note: 1. This item shall be operated only when existing turnout is replaced either with new turnout in case of TTR or with plain track when existing turnout is no more required at that location. 2. Rail cutting will be paid extra under relevant item. 3. Laying of new turnout or plain track on prepared ballast bed, as required, shall be paid separately under relevant item.				
16	071026	Derailing Switch (Under conditions not requiring Traffic Block).	Set	5.00	5477.68	27388.40
17	071030	Dismantling the existing BG Buffer-stop laid with rails & wooden/ST sleepers including leading the dismantled Buffer stop materials to nominated places within station yard limits and stacking as material-wise and classification-wise duly releasing all fittings carefully without causing any damage with all contractor's labour, tools, with all lead and lifts, crossing of tracks if any, etc., complete as directed by the Engineer-in-charge.	Set	2.00	4436.43	8872.86

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		Assembling on temporary staging and insertion of all types of turnouts including diamond crossings and derailing switches on prepared ballast bed during traffic block, manually or by contractor's cranes, at specified location with 52Kg / 60Kg rail section on PSC sleepers with Railways rails/sleepers available anywhere within 500m as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings etc. including rail cutting, drilling, fixing of all components, fittings etc. with housing of tongue rails as per requirement of signaling including crossing of track, filling and spreading of ballast in crib and shoulder as required, linking of turnout with existing track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings/fastenings, complete in all respect and as directed by Engineer in-charge. Note: Required P.Way fittings shall be supplied at the SSE/P.Way stores.				
18	072032	1 in 12 Turnouts	Set	14.00	66371.74	929204.36
19	072036	Derailing Switch	Set	1.00	14143.62	14143.62
		Laying and linking of turnouts of all types including diamond crossings & Derailing switches with 52Kg / 60Kg rail section on PSC sleepers on prepared ballast bed for New lines or during total closure of section at indicated location as per standard drawing, duly leading sleepers, rails, switches, crossings, fastenings including rail cutting, drilling, fixing of all components, fittings with housing of tongue rails as per requirement of signaling, preparing ballast bed, filling and spreading of ballast as required, linking of turnout with track, attending track parameters including lifting, providing one round of packing to make track fit for 20 kmph speed including lubrication of fittings/fastenings, complete as directed by Engineer in-charge.				
20	072042	1 in 12 Turnouts	Set	13.00	49331.42	641308.46
21	072046	Derailing Switch	Set	2.00	9504.47	19008.94

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		Manual deep screening of Plain track/turnouts as per procedure prescribed in IRPWM, June 2020 or latest, on PSC sleepers of any density and throwing away screened muck arising out of screening on toe of bank or on cess, if low or on spoil banks above top of cutting (including throwing and leveling, if required beyond minimum 5m from the edge of cutting which are up to 3m deep or alternatively carting it up to 50m for disposing it off beyond cutting or platforms) as per direction of Engineer in-charge, including cutting cess for effective drainage on both sides, one round of kutcha packing with screened ballast and further attending to track parameter to make track fit for 20 kmph speed complete in all respect. Note : Payment shall be made for length along main line only for turnouts.				
22	081024	Depth of 300 mm below bottom of sleeper - For Plain Track :	TRM	2790.00	558.32	1557712.80
23	081028	Depth of 300 mm below bottom of sleeper for Turnouts	TRM	270.00	893.31	241193.70
24	081030	Extra to item nos. from 081011 to 081018 and from 081021 to 081028 for disposal of muck at a distance beyond 50m for every additional lead of 50 metres or part thereof up to 500 metres for 1 TRM in station yard / cutting.	Each	600.00	5.31	3186.00
		Recoupment of ballast in running line with railway's stone ballast from existing stacks available along alignment either on top of cutting or on cess or at toe of bank by head leads or by any other means and spreading to make up deficiency in the required profile with contractor's labour, tools & plants, as directed by Engineer-in-charge. Note: Payment shall be made based on ballast stack measurement.				
25	082011	For average lead up to 50m and lift up to 5m	cum	8200.00	102.64	841648.00
26	082012	Extra over item no. 082011 for each additional average lead of 50m or part thereof when total average lead exceeds 50m, but up to 250m. Note: This item may be used only in exceptional circumstance under prior order on record.	Each	32800.00	25.73	843944.00

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27	083010	Lifting and packing for regrading the existing PSC sleeper track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level pegs at every 30m interval. Note: Lifting of track shall be done in stages as per procedure prescribed in latest edition of IRPWM to get the proposed final level as per approved working profile, as directed by Engineer in-charge.	TRM	700.00	171.63	120141.00
28	083011	Extra for additional lift over 75mm for every 50mm lift or part thereof up to 275mm for item nos. 083010 for each TRM.	TRM	700.00	26.54	18578.00
29	083030	Boxing and profiling of ballast as per procedure prescribed in latest edition of IRPWM including cess dressing on both sides of track. The work will include removing excess ballast from track and putting the same in crib and shoulder by leading to a maximum of 50m including crossing of track, dweeding on ballast section etc and as directed by Engineer-In charge.	TRM	4500.00	25.26	113670.00
		Unloading of ballast from Railway's Hopper Wagons, quantity distribution as per pre-defined site requirement, clearing infringements/jammed ballast, distributing the unloaded ballast uniformly over the track, profiling and boxing following all prescribed safety norms.				
30	084041	Under Traffic Block Conditions:	cum	1400.00	50.52	70728.00
31	084042	Under Conditions not requiring Traffic Block:	cum	1400.00	38.37	53718.00

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		25mm gap 'in-situ' welding during traffic block and finishing of weld to meet the prescribed tolerances and pass all stipulated tests with all required labour, materials, consumables, tools, equipments etc. to complete the work in all respect as per IR's "Manual for Fusion Welding of Rails by Alumino - Thermic Process" with latest correction slips, including marking of welded joint, painting weld collar with anticorrosive paint, restoration of track near weld joint to original position and fixing of joggled fish plate at new weld, to be removed after passing of weld in USFD test as directed by Engineer in charge. Note: 1. Welding shall be carried out only by trained welder having valid competency certificate using RDSO approved Alumino Thermit Welding Portions, 3 piece prefabricated mould (ZIRCON WASHED) manually pressed, Single shot crucible fitted with auto tapping thimble and Compressed Air Petrol/LPG preheating technique as per RDSO Specification No IRST/19-2020 with latest amendment. 2. Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing. 3. Only required nos. of Joggled fish plates shall be supplied by Railway at nearest P. Way Stores and the same shall be returned at nearest P. Way Store or at other location as per direction of Engineer-in-Charge after release from track. All other items required shall be supplied by the Contractor.				
32	092012	For 60 Kg/60EI - R260 grade Rail	Each	525.00	5089.34	2671903.50
		25mm gap Cess Welding and finishing o f weld to meet the prescribed tolerances and pass all stipulated tests with Contractor's labour, materials, consumables, tools, equipments etc. to complete the work in all respect as per IR's "Manual for Fusion Welding of Rails by Alumino - Thermic Process" with latest correction slips, including all required handling and rehandling of rails, marking of welded joint, painting weld collar with anticorrosive paint, as directed by Engineer in charge. Note: 1. Welding shall be carried out only by trained welder having valid competency certificate using RDSO approved Alumino Thermit Welding Portions, 3 piece prefabricated mould (Zircon washed) manually pressed, Single shot crucible fitted with auto tapping thimble and Compressed Air Petrol/LPG preheating technique as per RDSO Specification No IRST/19-2020 with latest amendment. 2. Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing.				
33	092042	For 60 Kg/60EI - R260 grade Rail	Each	525.00	3971.20	2084880.00

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34	121010	Dismantling of existing LWR/SWR track of any structure, removing rails, sleepers, fish plates, cutting of rails, segregation and stacking of released Rails, Sleepers and fitting at nominated location in countable manner within a free lead of 500m, levelling of ballast to correct profile for laying new track over it, all as per direction of Engineer-in-Charge.	TRM	1350.00	169.09	228271.50
		Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation of a new line including crossing of one track, duly lifting & pushing rail / panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. Note: The rail barricading, if disturbed during working, should be restored to its original condition by the agency including re-fixing & concreting as required.				
35	122011	Rail length up to 13m - Under Traffic Block	RM	2730.00	19.13	52224.90
36	122012	Rail length up to 13m - Under Conditions not requiring Traffic Block	RM	2730.00	15.58	42533.40
37	122013	For rails/panels of more than 13m and up to 40m length - Under Traffic Block	RM	760.00	28.34	21538.40
38	122014	For rails/panels of more than 13m and up to 40m length - Under Conditions not requiring Traffic Block	RM	760.00	20.20	15352.00
39	122015	For rails/panels of more than 40m length - Under Traffic	RM	5230.00	41.48	216940.40
40	122016	For rails/panels of more than 40m length - Under Conditions not requiring Traffic Block	RM	5230.00	29.46	154075.80
		Providing Centre Line / Rail Level, reference Pegs on formation at an interval of 30 metres on one side or at centre of proposed / existing track, as directed by engineer in-charge for linking of new track / CTR / Deep Screening / Lifting / Lowering works, duly embedding in formation including marking with contractor's paint. Note: (1) Rails/tie bar of suitable size bar shall be supplied by the Railways from nearest Stores Depot. In case of hard wood peg, the hard wood will be supplied by the contractor. (2) Excavation and concrete work, if required, will be paid separately.				
41	123013	With contractor's hard wood pegs of 50 mm dia and 60 cm long	Each	260.00	125.72	32687.20

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42	123030	Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line & level with all ascents & descents, as directed by Engineer in-charge. Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same & making good formation after completion of work; (b) redistribution & leveling of excess ballast while rolling to obtain uniform plane cambered surface.	cum	22330.00	42.36	945898.80
		Linking of BG track (except at LC, Bridges and SEJs) with any type of rail section and sleeper of specified density, on ballast bed spread and compacted with suitable roller, over prepared formation including leading free rails/welded panels available along the alignment on to formation, leading and spreading all fittings and fastenings, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item.				
43	123041	For sleeper density of 1660 sleepers per km	TRM	6360.00	276.71	1759875.60
		Shifting / Slewing the existing or newly assembled track of any rail section with any type of sleepers and any density under line block to correct locations & alignment and attending to one round kutcha packing to run safely at 20KMPH speed with all contractors tools and consumables complete and as directed by Engineer in-charge.				
44	123091	Maximum Shifting / Slewing up to 1 metre	TRM	730.00	199.03	145291.90
45	123092	Maximum Shifting / Slewing for more than 1 metre & up to 2 metres	TRM	650.00	238.89	155278.50

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		Working of the Railway Push Trolley by arranging one Head trolleyman along with 3 trollymen as per Railway's rules and stipulations for conducting inspections by Railway officials and as directed by Engineer in-charge. Note: 1) Labourers supplied should be of skilled in case of head trolleyman and semiskilled in case of trollymen and capable of pushing trolley in all gradients, and levels duly observing all safety precautions as per the manual. 2) The labour engaged should be physically fit for strenuous work, literate and meeting prescribed medical category.				
46	124021	For Full day (8 hrs )	Each	60.00	3306.04	198362.40
		Preparation of completion drawings of yard in AutoCAD, showing all the details, such as circulating area, approach road, platform shelter, platform, FOB etc., showing relevant particulars to appropriate scale as per IR's Engineering Code on approved quality, transparent media as per details supplied by Railways, including submission of check print for proof checking, duly incorporating the suggested corrections and modifications and supplying the final plot on approved quality & transparent media with six copies of ammonia prints complete and soft copy, as directed by Engineer in-charge Note: (i) Drawings shall be prepared by using latest drawing making softwares AutoCAD, Work station etc. and printing shall be done on high end latest plotters. (ii) Stage Payment - (a) For check print - 40% (b) For Paper tracing - 40% (c) For Ammonia print & soft copy - 20%.				
47	124041	Completion drawing of yard at junction station	Each	2.00	4124.75	8249.50
48	124042	Completion drawing of building	Each	6.00	3046.38	18278.28

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		De-stressing of LWR/CWR track of any density under traffic line block with contractor's labours, tools, equipments and consumables inclusive of all lead & lift. Activities include cutting of LWR/CWR into convenient panels of specified length, removal of ERCs, liners, greasing of ERCs and liner contact area, lifting rails and keeping them on rollers provided at every 15 sleepers, working out elongation of rail ends depending on prevailing site conditions, pulling rails with the help of Hydraulic Tensor to achieve the desired elongation, cutting rails, as required, removing rollers and placing rail in position, re-fixing ERCs & liners and adjustment of gap at SEJs : Note: (1) Welding of rail joints will be paid separately. (2) Rail cutting and Hole drilling shall be paid separately. (3) Opening and closing of LC if required will be paid separately. (4) As per procedure prescribed in latest edition of IRPWM & CE's Circulars for destressing of LWR/CWR, if any.				
49	135012	With Contractor's Hydraulic Rail tensor	TRM	200.00	42.79	8558.00
50	135013	Without Rail tensor	TRM	8250.00	38.90	320925.00
		Maintenance of track on main line & loops, Points & crossings etc. including special attention to section for carrying out various maintenance works listed in Indian Railways P.Way Manual / Bridge Manual for safe running of goods and passenger trains with contractor's tools / labours etc. complete, as directed by Engineer in-charge. Note: Contractor shall arrange one gang at any point of time comprising of minimum specified labours with sufficient experience in P.Way working.				
51	136041	One mobile Gang comprising of 15 physically fit labours plus 1 Mate. Note: (1) In case, contractor provides less no. of Labour/Mate or for non availability of vehicle, payment will be deducted for each such person or non-availability of vehicle @ 20% of the accepted item rate, separately for each shortfall. (2) The Contractor shall keep one pick up Truck of minimum 1.5T payload capacity with Driver all the time and all expenditures for running at an average of 80 kms per day shall be born by the Contractor.	Gang Day	360.00	13494.26	4857933.60

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52	136060	Replacing existing glued joint rail with cut rails or with glued joint rail or insertion of glued joint by cutting existing track under traffic condition by cutting rails, refixing with all rail sleeper fastenings and providing required gaps for carrying out welding as an alternative to drilling holes or joining rails with fish plates duly drilling holes as required including stacking of released material and as directed by engineer in-charge. Note: (1) Drilling holes & rail cutting will be paid separately. (2) Transportation of materials to the site of work from supply points, if more than 250m, shall be paid separately.	Each	80.00	1745.84	139667.20
		Fixing of Wooden Distance Block of size 1.0m x 0.3m x 0.15m between track and platform wall.				
53	136072	With Contractor's hard wood block.	Each	60.00	3023.05	181383.00
		Marking, inscribing, painting, writing, bordering etc. on new / old iron surface at various locations of Points & Crossings with details of turn-in / turn-out reference station mark on rail web for one set, duly preparing surface with contractor's wire brush and applying two coats of yellow synthetic enamel paint of approved quality as background and stenciling the details to suitable size, as described for every curve reference station mark / switch / crossing details with black enamel paint of approved quality complete, as directed : Note: Stenciling of letters is only permitted. No hand written letters are accepted.				
54	137072	1 in 12 Turnout	Set	28.00	1231.00	34468.00
55	137074	Derailing Switch	Set	3.00	397.36	1192.08
		Painting 2 coats to various P.Way Reference Post, Structures etc. with enamel paint of approved make with 2 coats of different colours & letters, as directed by Engineer in-charge.				
56	137086	Curve Post	Each	60.00	94.50	5670.00
57	137090	Curve details, SE, Versine, Station Nos. etc. per station.	Each	200.00	54.25	10850.00

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		Carrying out pre-tamping, during tamping and post-tamping work for tamping track with all types of rails, sleepers & sleeper density by various Track Tamping machines, like CSM,DUO/3X Machines which include : (1) Re-adjustment of ballast, heaping-up of ballast, filling-up of cavities in tamping zone by picking ballast from stacks / shoulders / crib of adjoining track up to lead of 50 m to ensure effective packing; (2) Clearing of ballast on sleepers to make them visible to operator, (3) Clearing of ballast over rail foot to facilitate holding of rail by rollers of TTRM; (4) Digging, screening and replenishment of ballast at mud pumping / rounded ballast in sleeper crib location; (5) Tightening of loose fittings immediately before & after tamping; (6) Replacement of broken / missing fittings supplied by Railway; (7) Correcting displaced sleepers to position along with squaring; (8) Re-setting of worked-out / fallen fittings. (9) Removing and re-fixing joggled fish plates & wooden blocks, wherever necessary; (10) Manual consolidation of ballast in crib / shoulders; (11) Removing and refixing of traction bonds during the block in electrified sections (12) Dressing of ballast Note: 1. Tamping blocks are not identical & it may be given at any time either during day or night. 2. Stages of payment a) 30% of the rate will be paid on completion of pre tamping attention, b) Balance 70% of the rate will be paid on completion of post tamping. 3. Recovery at the rate of twice the above applicable rate will be effected in case contractor fails to carry out pre/during/post operation. 4.Payment shall be made only once in irrespective of numbers of TTRM packing round and after restoration of normal speed and restoration of complete ballast profile.				
58	155011	For day time block working	TRM	3700.00	18.29	67673.00
59	155012	For night time block working	TRM	3700.00	20.49	75813.00
60	155013	New Line Section, not opened for traffic	TRM	9600.00	10.02	96192.00

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		Carrying out pre-tamping, during tamping and post-tamping works for tamping of Turnouts of all types Under Traffic Block Conditions which include : (1) Re-adjustment of ballast, heaping-up of ballast, filling-up of cavities in tamping zone by picking ballast from stacks / shoulders / crib of adjoining track up to lead of 50 m to ensure effective packing; (2) Clearing of ballast on sleepers to make them visible to operator; (3) Clearing of ballast over rail foot to facilitate holding of rail by rollers of UNIMAT; (4) Digging, screening and replenishment of ballast at mud pumping / rounded ballast in sleeper crib location; (5) Tightening of loose fittings including check rails immediately before & after tamping; (6) Replacement of broken / missing fittings supplied by Railway; (7) Correcting displaced sleepers to position along with squaring; (8) Re-setting worked-out / fallen fittings; (9) Removing and re-fixing joggled fish plates & wooden blocks, OHE bonds & other obstructions, wherever necessary ;(10) Removing and re-fixing stretcher bar, as directed; (11) Adjustment in opening and housing of switch for testing operation of points (12)Manual consolidation of ballast in cribs and shoulders; (13) Stages of payment a) 30% of the rate will be paid on completion of pre tamping attention, b) Balance 70% of the rate will be paid on completion of post tamping; (14) Recovery at the rate of twice the applicable rate will be effected in case contractor fails to carry out any of the pre/during/post operation.				
61	156012	1 in 12 Turnouts (Under Traffic Block Conditions)	Set	42.00	10446.35	438746.70
62	156015	Derailing Switch (Under Traffic Block Conditions)	Set	3.00	3305.14	9915.42
		Extra Over Item Numbers 156011 to 156015 for night block working				
63	156022	Extra to Item no. 156012 for night block working	Set	42.00	1566.95	65811.90
64	156025	Extra to Item no. 156015 for night block working	Set	3.00	495.77	1487.31
		Carrying out pre-tamping, during tamping and post-tamping works prescribed in current version IRTMM/IRPWM for tamping of Turnouts of all types Under Conditions not requiring Traffic Block.				
65	156032	1 in 12 Turnouts	Set	39.00	6267.81	244444.59
66	156035	Derailing Switch	Set	6.00	1983.08	11898.48

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67	157010	Carrying out various miscellaneous works, for proper upkeep of crew rest van / rest room as directed by machine in-charge of Track Machines by providing a team of 2 labours for 12 hours shift, broadly mentioned hereunder: (1) Bringing water from nearby source and cleaning machine with water jet or any suitable means; (2) Fuelling machine duly bringing diesel / hydraulic oil from the stacked drums; (3) Bringing water to staff rest van or staff rest room, cleaning rest van / rest room, cooking food for Track Machine staff or bringing food from outside (cost of food shall be borne by the staff concerned).; (4) Guarding & watching machines, spare parts, oils, grease etc. during day and night time at all locations, wherever necessary, as instructed by the machine in-charge; (5) In case, contractor provides less no. of Labour/Mate, payment will be deducted for each such person @ 75% of the accepted item rate.	Shift	300.00	1335.26	400578.00
		Providing lighting arrangements with halogen lamps on and around machine during machine working in night time blocks, with contractor's generator, consumables, all necessary electrical fittings, operators etc. Note: 1. Lighting arrangement is to be provided as per advance planning of Night Blocks and written communication. 2. In case lighting arrangement is made available but not used due to non-availability of block, payment @ 60% of the item rate shall be made. 3. In place of Halogen, LED lamps of equal lumen capacity may be used with the approval of Engineer -in-Charge. 4. If lighting arrangement fails during block, recovery shall be made twice the rate per day.				
68	157031	BCM/FRM/UNIMAT (7.5 KVA generator and 12x500 W)	Night	40.00	4830.68	193227.20
69	157032	CSM / DUO / 3X with or without DGS (7.5 KVA generator and 8x500 W)	Night	40.00	4406.98	176279.20
		Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel Abrasive Disc will be as per RDSO Specification No.TM/SM/2 (Rev. 01 of 2020)				
70	161011	60 Kg - 110/90 UTS - Outside Track	Each	1100.00	224.91	247401.00
71	161014	60 Kg - 110/90 UTS - On Running Line	Each	1710.00	287.72	492001.20

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		Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991.				
72	161041	Outside Track	Each	8200.00	53.08	435256.00
73	161042	On Running Line	Each	1400.00	68.99	96586.00
74	163020	Measuring of Toe Load of ERC during service in field by Electronic Toe Load Measuring Device with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Electronic Toe Load Measuring Device will be as per RDSO's Specification No.TM/SM/ETLMD/218 dated 13.9.2012.	Each	740.00	4.52	3344.80
		Loading of rails of any section and length up to 13 metres in Wagons / Truck / trailer including lead up to 50 metres and lift up to 5 metres.				
75	171014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	650.00	128.09	83258.50
		Loading of tongue rail, stock rail, switch assembly and crossings of any section and length, SEJ, Glued joint etc. with / without P.Way fittings and fastenings, in Wagon / Truck / trailer including lead up to 250 metre and lift up to 5 metre.				
76	171024	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	320.00	125.77	40246.40
		Loading, leading and unloading of 52Kg / 60Kg rail up to 13 metre length by Railway's Rail Dolly / Dip Lorry to the nominated location under traffic with line protection in case road carriage is not possible with different lead with a lift up to 5 metre during block period.				
77	171031	For lead up to 500 metre.	MT	750.00	369.58	277185.00
78	171032	For lead beyond 500 metre and up to 1 Km.	MT	750.00	476.21	357157.50
79	171034	Extra to Item no. 171031 and 171032 with contractor's Rail Dolly / Dip Lorry	MT	1200.00	22.44	26928.00
		Unloading of rails of any section and length up to 13 metre, in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/trailer including lead up to 50 metre, lift up to 5 metre and stacking in prescribed manner.				
80	171053	From Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer.	MT	650.00	94.45	61392.50

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		Unloading of all type of rails of length 130 metre and beyond from end unloading rake and keep the panels in head-up position at specified distance from centre of track clear from any infringement.. Note: Contractor has to keep Oxygen and Acetylene gas with cutter as standby during the period of work.				
81	171071	During period of traffic block	MT	820.00	28.41	23296.20
82	171072	Not involving traffic block	MT	400.00	23.79	9516.00
		Loading of 52kg / 60kg PSC normal line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in a neat manner to departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track with free lead up to 250 metre and lift up to 5 metre, if required with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
83	172014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer	MT	4850.00	100.32	486552.00
		Loading of 52kg / 60kg PSC line and special sleepers beyond 2.75 metre length including existing fittings and fastenings in Depot / Station / Mid-section between stations in a neat manner to departmental material train (DMT) or contractor's / Railway's Truck/trailer with crane or any other means including crossing of one track with free lead up to 250 metre and lift up to 5 metre, if required with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
84	172024	In Wagon/Truck / trailer where mechanical handling is possible and traffic block is not required.	MT	980.00	125.33	122823.40
		Loading, leading and unloading of PSC Sleepers of 52Kg / 60Kg by Railway's Rail Dolly/ Dip Lorry to the nominated location under traffic in case road carriage is not possible for different leads and lift up to 5 metres.				
85	172031	For lead up to 500 metres	MT	1600.00	287.71	460336.00
86	172032	For lead beyond 500 metre and up to 1 Km	MT	500.00	425.97	212985.00
87	172034	Extra to Item no. 172031 and 172032 with contractor's Rail Dolly/Dip Lorry.	MT	900.00	24.45	22005.00
		Loading, leading and unloading of all types of P.Way fittings and all other miscellaneous material except Rails, sleepers, switches, crossings, SEJs and Glued joints by road vehicles for different leads. Note: Lead shall be the shortest motorable road length between the points of loading and unloading.				

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88	172043	Lead beyond 10 Km and up to 20 km	MT	150.00	259.68	38952.00
89	172045	Lead beyond 30 Km and up to 50 km	MT	120.00	418.81	50257.20
90	172047	Lead beyond 100 Km and up to 150 Km	MT	100.00	919.67	91967.00
91	172048	Extra for every Km per MT beyond 150 Km over item no. 172047	MT-Km	200.00	3.08	616.00
		Transportation of Rails, sleepers, switches, crossings, SEJs and Glued joints by road vehicles for different leads. Note: 1 .Lead shall be the shortest motorable road length between the points of loading and unloading. 2. Loading and unloading shall be paid extra under relevant items.				
92	172053	Lead beyond 10 Km and up to 20 km	MT	6330.00	149.52	946461.60
93	172057	Lead beyond 100 Km and up to 150 Km	MT	975.00	809.51	789272.25
		Unloading of 52kg / 60kg PSC line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track and lead up to 250 metre & lift up to 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
94	172063	From Truck / Trailer	MT	4850.00	91.72	444842.00
		Unloading of 52kg / 60kg PSC special sleepers beyond 2.75 metre length in Depot / Station / Mid-section between stations in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track and lead up to 50 metre & lift up to 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
95	172073	From Truck / Trailer	MT	1480.00	96.54	142879.20
		Unloading of Switches / Crossings / SEJ Rails / Glued joints of any rail section and length with or without P.Way fittings & fastenings in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with lead up to 250 metre & lift up to 5 metres.				
96	173013	From Truck / Trailer	MT	320.00	130.69	41820.80
		Collection, segregation and stacking of various scattered P.Way materials at nominated stacking location with serviceable and un-serviceable ones separately within a lead up to 500 metre and lift up to 5 metre including crossing of track(s) wherever necessary as directed by Engineer-in-Charge.				
97	173031	Rails, switches, crossings, SEJ, Glued joints, Check Rails etc.	MT	3000.00	372.67	1118010.00

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98	173032	All type of PSC sleepers	MT	3000.00	406.38	1219140.00
99	173033	P.Way fittings of all types and other similar loose items	MT	500.00	371.58	185790.00
100	202030	Manufacturing, supplying and fixing Curve Indicator / Point Indicator / SEJ Boards to be provided at various locations on formation, made out of MS sheet 2mm thick of size 450mm x 300mm duly fixed with MS frame of 25mm x 25mm x 3mm angle welded to 50mm x 50mm x 3mm MS angle, 1000mm long post split and bent 100mm at bottom end with all lead & lift as per specification and including painting of details with enamel paint, as directed by Engineer in-charge (Earthwork & concreting will be paid separately)	Each	100.00	1063.26	106326.00
		Erection or removal of temporary Engineering Indicator Board or any other board at specified locations without causing infringement to track etc. complete and as directed.				
101	211021	For erection	Each	70.00	246.11	17227.70
102	211022	For removal	Each	70.00	199.62	13973.40
103	211060	Supply and fixing in position pre-cast cement concrete Fouling Mark as per approved drawing at station yard, duly painting the top surface and slopes with white enamel paint in two coats and inscribed letters with black of Fouling Mark, complete in all respects with all labour, materials including cement, tools and plants etc.	Each	30.00	461.75	13852.50
104	211070	Providing and erecting water proof Gypsy Tent of size 3m x 3m for a specific period of time and removal of the same after completion of work or as directed by Engineer in-charge.	Day	50.00	643.95	32197.50
		Providing furniture temporarily at site work in good condition at different locations as per direction of Engineer In-charge and removing the same after completion of work.				
105	211081	Office Table of size 1.2m x 0.9m per day	Each	80.00	69.87	5589.60
106	211082	Office Chairs with cushioned seat, back and arms per day	Each	320.00	35.61	11395.20
		Hiring of machinery for minor miscellaneous works for short duration including operator/driver, fuel, lubricants and consumable. The contractor shall arrange all statutory permits as required by rules and regulations prevailing in the area of work. Payment shall be made for actual working hours at site.				
107	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	96.00	779.48	74830.08
108	211202	Hydra or similar tyre mounted Pick-n-Carry crane of 12T capacity for misc. works of handling of material	Hour	96.00	1066.22	102357.12
					<b>Total</b>	<b>32710500.95</b>

**4. ELIGIBILITY CONDITIONS**

**CAO-C-HQ-ENGINEERING/SOUTH EAST CENTRAL RLY  
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**Important :** All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

**Standard Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1.2 Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of 'V/N' or 'V' whichever is less , where V=Advertised value of the tender in Crores of Rupees. N=Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderer shall submit requisite information as per Annexure-IV, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Eligibility Criteria (For Joint Venture Firm):The JV shall satisfy the requirement of "Financial Eligibility" mentioned at para 1.2 below. The "financial capacity" of the lead member of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 1.2 below. The arithmetic sum of individual "financial capacity" of all the members shall be taken as JV's "financial capacity" to satisfy this requirement. Note: Contractual payment received by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying compliance of the above mentioned financial eligibility criteria in the tender under consideration.	No	No	Allowed (Mandatory)

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2	<p><b>BID CAPACITY:</b> For tenders having advertised value more than Rs.10 Crore wherein eligibility criteria includes bid capacity also, the tenderer will be qualified only if its available bid capacity is equal to or more than the total value of the present tender. The available bid capacity shall be calculated as under:- Available Bid Capacity = <math>[A \times N \times 2] - (0.33 \times N \times B)</math> Where- A = Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress. N = Number of years prescribed for completion of work for which bids has been invited. B =Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender. NOTE:- (a)The Tenderer (s) shall furnish the details of - (i)Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A and. (ii)Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started up to the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant. Bid Capacity for Joint Venture Firm:- The JV shall satisfy the requirement of "Bid Capacity" requirement mentioned at para-2(above) of NIT. The arithmetic sum of individual "Bid capacity" of all the members shall be taken as JV's "Bid capacity" to satisfy this requirement. (b)In case if a bidder is JV, the tenderer (s) must furnish the details of (i)Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) by each member of JV for calculating 'A', and (ii)Existing commitment and balance amount of ongoing work with each member of JV either in individual capacity or as a member of other JV as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started up to the date of inviting of tender for calculating 'B'. In case of no works in hand a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant. (c)Value of a completed work/work in progress/work awarded but yet not started for Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his /her compliance to the above mentioned bid capacity in the tender under consideration. (d)The arithmetic sum of individual "bid capacity" of all the members shall be taken as JV's "bid capacity". (e)In case, the tenderer/s failed to submit the above statement along with offer, their/his offer shall be considered as incomplete and will be Rejected Summarily. Continued..</p>	No	No	Allowed (Mandatory)
3	<p>Continued... continued....(f) The available bid capacity of tenderer shall be assessed based on the details submitted by the tenderer. In case, the available bid capacity is lesser than estimated cost of work put to tender, his offer shall not be considered even if he has been found eligible in other eligibility criteria/tender requirement.</p>	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	<p>The technical eligibility (For Joint Venture Firm):The technical eligibility for the work as per para 1.1 below, shall be satisfied by either the 'JV in its own name &amp; style' or 'Lead member of the JV'. Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work as per para 1.1 below, shall have technical capacity of minimum 10% of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of advertised value of the tender.</p>	No	No	Allowed (Mandatory)

**Standard Technical Criteria**

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1.1 Technical Eligibility Criteria: The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender. OR Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, OR One similar work costing not less than the amount equal to 60% of advertised value of the tender. Note for item-1.1: (i)Substantially completed work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price Variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender. (ii) Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Government Organisation, work experience certificate issued by Public Listed Company having average annual turnover of Rs.500 Crore and above in last three financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/ registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed Company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate. (iii) The responsibility of proving the eligibility for the work as per tender conditions lies with the bidders along with providing unambiguous documents/certificates in confirmation to eligibility criteria with bid. Only Experience given by Tenderer in Annexure-A will be evaluated for Technical Eligibility. No other document will be taken cognizance.	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- Any Civil Engineering work comprising of earthwork in formation in bank/cutting, Construction of bridges, "supply" or "supply and spreading" of machine crushed ballast for Railway works and any type of track linking.	No	No	Not Allowed

**Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:**

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.

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9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

**Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.**

S.No.	Description
1	<b>Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.</b> Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. ( <a href="#">Click here</a> to download the Format of Self Certification)

**5. COMPLIANCE**

**Important :** All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

**Commercial-Compliance**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	All the documents uploaded with this NIT, are part and parcel of this tender. With submission of BID it is considered that bidder has read all the document and accepted all conditions as there in.	No	No	Not Allowed

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed

**Custom**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Following annexure are to be downloaded and submitted alongwith Bid duly signed.	Yes	No	Allowed (Mandatory)
1.1	Annexure IV-Annual contractual turnover to be submitted. (Uploaded vide sl. no. 2 under "DOCUMENTS" tab)	Yes	No	Allowed (Mandatory)
1.2	Annexure-V & V(A)-Declaration by the tenderer to be submitted. (Uploaded vide sl. no. 3 & 4 under "DOCUMENTS" tab)	Yes	No	Allowed (Mandatory)
1.3	Tenderer Detail :- The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) /Registered Society / Registered Trust/Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern and copy of PAN Card along with their tender. Tenderer to submit document/s as detailed in SI No 6.1 and 6.2 of Chapter I of Tender Document.	Yes	No	Allowed (Mandatory)

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1.4	Certificate regarding employment of Retired Railway Employee:- As per clause-16 of Indian Railway GCC April-2022-Part-I tenderer have to submit the information in this regard or submit statement to this effect that no such retired Engineer or retired gazetted officer is so associated with the tenderer, as the case may be.	Yes	No	Allowed (Mandatory)
1.5	Declaration:- Declaration from tenderers that tenderer has read the various conditions etc as per Chapter-III of tender document to be submitted.(Uploaded vide sl. no. 8 under "DOCUMENTS" tab)	Yes	No	Allowed (Mandatory)
1.6	Plant and Machineries:- List of Plant and Machineries to be deployed to be enclosed.	Yes	No	Allowed (Mandatory)
1.7	List of Personnels:- List of personnels to be deployed be submitted.	Yes	No	Allowed (Mandatory)
1.8	Power of Attorney:- As per Clause-15 of Tender Form(Second Sheet) of Part-I of of GCC April 2022 (Page No.19) document to be submitted.	Yes	No	Allowed (Mandatory)
1.9	Ballast Supply undertaking- Declaration regarding supply of ballast as per requirement to be submitted. (Uploaded vide sl. no. 5 under "DOCUMENTS" tab)	Yes	No	Allowed (Mandatory)
1.10	Bid Capacity [Applicable for tenders having value more than Rs 10 Cr: Proforma regarding bid capacity to be submitted. (Uploaded vide sl. no. 6 & 9 under "DOCUMENTS" tab)	Yes	No	Allowed (Mandatory)

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	ACS-11_compressed.pdf	ACS 11
2	SupplyofBallast.pdf	Ballast Supply
3	AnnexureIII.pdf	Performa of Bid capacity
4	Annex-IV.pdf	AnnexureIV
5	Annex-V.pdf	Annexure V
6	Annex-VA.pdf	Annexure VA
7	Chapter-III.pdf	Chapter III
8	Annex-VI.pdf	Annexure VI
9	TenderDocument.pdf	Tender Document
10	GCCACS10.pdf	GCCACS10

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

**Signed By:** ANIL KUMAR PANDEY

**Designation :** Dy.CE/CON/R