

**EDFC FIELD UNIT-ALLAHABAD-E-CIVIL/EDFC  
TENDER DOCUMENT**

Tender No: PRYJEDDUPRYJROB1231202102

Closing Date/Time: 02/12/2021 15:00

CGM/DFCCIL/ALD-E acting for and on behalf of The President of India invites E-Tenders against Tender No PRYJEDDUPRYJROB1231202102 Closing Date/Time 02/12/2021 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.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

**1. NIT HEADER**

<b>Name of Work</b>	Construction of Two-Lane Road Over Bridge (ROB) Railway portion at level crossings No. 12 (36m+36m) IR KM 755/19-21 & level crossing no. 31 (36m+36m+18m) IR Km 807/23-25 Railway Portion between DDU to PRYJ Station Prayagraj Division of North Central Railway		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	02/12/2021 15:00	<b>Date Time Of Uploading Tender</b>	01/11/2021 16:47
<b>Pre-Bid Conference Required</b>	Yes	<b>Pre-Bid Conference Date Time</b>	09/11/2021 11:00
<b>Advertised Value</b>	344994523.13	<b>Tendering Section</b>	PRYJ EAST
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money /Bid Security (Rs.)</b>	0.00	<b>Validity of Offer ( Days)</b>	60
<b>Obtain Bid Security Declaration in lieu of Bid Security</b>	Yes		
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	12 Months
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	18/11/2021	<b>Are Joint Venture (JV) firms allowed to bid</b>	Yes
<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 1-Schedule A</b>							52471784.67	Above/ Below/Par
1	012010	1000.00	cum	275.11	275110.00	8.43	298301.77	
	<b>Description:-</b> Earthwork in filling in embankment , guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds, if provided, platforms etc. with earth, suitable for embankment as per RDSO latest Specifications and guidelines GE: G-14 of Soil Quality Class SQ1, excavated from outside railway boundary entirely arranged by the contractor at his own cost including all leads, lifts, ascents, descents, crossing of nallahs or any other obstructions. The item shall include demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling, 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 a complete job. The payment shall be made as per finished profile and the rate shall include all costs including taxes, octroi, royalty etc. except for mechanical compaction which shall be paid extra under relevant item. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract.							
2	012040	1000.00	cum	18.12	18120.00	8.43	19647.52	
	<b>Description:-</b> Extra for mechanical compaction of soil in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes including cost of water, T&P, consumable and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow.							
3	013101	800.00	Metre	205.31	164248.00	8.43	178094.11	
	<b>Description:-</b> Providing and removing barricading with the help of portable fencing along running track where work is to be done in close vicinity of track. 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 to be paid separately} With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts							
	022011	3111.00	cum	174.58	543118.38	8.43	588903.26	

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4	<p><b>Description:-</b> 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 upto 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 All kinds of soils</p>						
5	022033	150.00	cum	2380.58	357087.00	8.43	387189.43
5	<p><b>Description:-</b> 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 : 1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)</p>						
6	022035	70.00	cum	2403.32	168232.40	8.43	182414.39
6	<p><b>Description:-</b> 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 : 1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size)</p>						
7	022040	2000.00	cum	2472.32	4944640.00	8.43	5361473.15
7	<p><b>Description:-</b> Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of specified grade (Cast in-Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation &amp; Pile cap including finishing, using Admixtures in approved proportions (as per IS:9103), to modify workability &amp; other properties without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra.</p>						
8	022051	588.00	cum	2719.55	1599095.40	8.43	1733899.14
8	<p><b>Description:-</b> Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of specified grade (Cast in-Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the following Reinforced cement concrete structural elements up to height of 10 m from foundation top level, including finishing, using Admixtures in approved proportions (as per IS:9103), to modify workability &amp; other properties without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement, shuttering shall be paid extra. Abutment &amp; Pier</p>						
9	022053	400.00	cum	2843.17	1137268.00	8.43	1233139.69
9	<p><b>Description:-</b> Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of specified grade (Cast in-Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the following Reinforced cement concrete structural elements up to height of 10 m from foundation top level, including finishing, using Admixtures in approved proportions (as per IS:9103), to modify workability &amp; other properties without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement, shuttering shall be paid extra. Abutment cap, Pier Cap, Inspection Platform &amp; Pedestal over Pier cap, Fender wall, Diaphragm wall etc.</p>						
10	022092	2028.00	Metre	9002.76	18257597.28	8.43	19796712.73
10	<p><b>Description:-</b> Providing, driving and installing Bored cast in-situ Reinforced Cement Concrete piles using Hydraulic piling Rig of specified diameter and length below pile cap of specified grade Design Mix Cement Concrete, using 20mm graded crushed stone aggregate and coarse sand of approved quality, to carry a safe working load not less than specified, excluding the cost of permanent casing pipe and length of pile to be embedded in pile cap etc. complete, concreting by machine batching, machine mixing, scaffolding, using Admixture in approved proportion (as per IS:9103), placing with tremie pipe, chipping off of pile top to remove laitance concrete above cut off level etc., pumping and bailing out water with all labour material complete including crossing of tracks if required, as per approved drawing, specification and direction of the Engineer in charge. Length of the pile for payment shall be measured upto the bottom of pile cap excluding the mud mat. Payment for cement, permanent casing pipe (if any) &amp; reinforcement shall be paid extra. 1200mm diameter</p>						
11	022123	2.00	Each	84758.35	169516.70	8.43	183806.96
11	<p><b>Description:-</b> Conducting load testing of a single pile upto following capacity in accordance with IS:2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool &amp; plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer Initial load test above 100 ton capacity upto 250 ton capacity pile</p>						
12	022124	20.00	Each	7800.18	156003.60	8.43	169154.70
12	<p><b>Description:-</b> Conducting load testing of a single pile upto following capacity in accordance with IS:2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool &amp; plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer Extra for every increase of 50 ton in pile capacity or part thereof over 250 ton</p>						

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13	022127	2.00	Each	54895.58	109791.16	8.43	119046.55
	<b>Description:-</b> Conducting load testing of a single pile upto following capacity in accordance with IS:2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer Routine Load Test above 100 ton capacity upto 250 ton capacity pile						
14	022140	78.00	Each	3037.12	236895.36	8.43	256865.64
	<b>Description:-</b> Pulse Echo Test (PET) for integrity testing of piles with contractor's men, materials and machines. The rate includes cost of Inspection of site, preparation of pile head and any other unforeseen cost required for the test, submission of reports in triplicate as per satisfaction of the Engineer in Charge at site.						
15	025031	4000.00	Sqm	602.78	2411120.00	8.43	2614377.42
	<b>Description:-</b> centering and shuttering including strutting, propping etc. and removal of form for : 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. upto 5m above ground level						
16	025032	4800.00	Sqm	783.89	3762672.00	8.43	4079865.25
	<b>Description:-</b> centering and shuttering including strutting, propping etc. and removal of form for : All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. upto 5m above ground level						
17	025033	5300.00	Sqm	97.26	515478.00	8.43	558932.80
	<b>Description:-</b> centering and shuttering including strutting, propping etc. and removal of form for : Extra for additional height over item no. 025031 & 025032 wherever required with adequate bracing, propping etc. over initial height of 5 metres for every additional height of 1 metre or part thereof						
18	031102	84.00	Metre	8445.15	709392.60	8.43	769194.40
	<b>Description:-</b> Providing and fixing in position of standard preformed sealed and slab type or strip seal elastomeric type expansion joints for Railway bridge or Road Over Bridges as per approved drawings and latest MOST/IRC specifications. The rates are inclusive of supplying, fixing with contractor's own materials, e.g. inserts, bolts, socket tubes, Neoprene sheet/cap etc., equipments, machineries, labour, all taxes, royalty, all lead & lifts, transport, testing, surface preparations, complete For 80mm expansion						
19	041050	6725.00	Sqm	818.55	5504748.75	8.43	5968799.07
	<b>Description:-</b> Metalizing of steel work of girders with sprayed aluminium after surface preparation by Sand/grit blasting, followed by one coat of etch primer (IS:5666) & one coat of Zinc Chrome primer (IS:104) and two coats of aluminium paint (IS:2339) with all labour, T&P and material as a complete job duly conforming to all relevant specifications and process given under Clause 39 of IRS-B1-2001 Note: Nominal Thickness of Aluminium coating shall be 150 microns. DFT of Zinc chrome primer shall be 25-30 microns and DFT of each coat of Aluminium paint shall be 12-14 microns.						
20	041060	30000.00	Kg	86.71	2601300.00	8.43	2820589.59
	<b>Description:-</b> Providing and fixing railing used in rows for footpath or anti-crash barrier railing with B class G.I. pipe 65/50 mm nominal dia including cost of M.S. angle and channels in vertical posts, welding / bolting, priming painting with one coat ready mix Zinc Chromate conforming to IS:104 with DFT of 25-30Microns, followed by one coat of Zinc Chrome red oxide conforming to IS:2074 with DFT of 25 Microns with all material, labour, T&P as a complete job.						
21	041141	12.00	Each	71585.46	859025.52	8.43	931441.37
	<b>Description:-</b> Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 250 MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises. POT-cum -PTFE Bearing (Free end)						
22	041142	8.00	Each	91997.03	735976.24	8.43	798019.04
	<b>Description:-</b> Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 250 MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises. POT Bearing-Fixed Type						
	041143	8.00	Each	113355.07	906840.56	8.43	983287.22

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23	<p><b>Description:-</b> Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 250 MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises. POT-cum -PTFE Guided (L)Bearing</p>						
	041144	12.00	Each	106820.30	1281843.60	8.43	1389903.02
24	<p><b>Description:-</b> Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 250 MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises. POT-cum -PTFE Guided (T)Bearing</p>						
	041171	3.00	Each	27493.11	82479.33	8.43	89432.34
25	<p><b>Description:-</b> Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 100 MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises. POT-cum -PTFE Bearing (Free end)</p>						
	041172	2.00	Each	28933.68	57867.36	8.43	62745.58
26	<p><b>Description:-</b> Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 100 MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises. POT Bearing-Fixed Type</p>						
	041173	2.00	Each	40402.58	80805.16	8.43	87617.03
27	<p><b>Description:-</b> Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 100 MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises. POT-cum -PTFE Guided (L)Bearing</p>						
	041174	3.00	Each	37236.10	111708.30	8.43	121125.31
28	<p><b>Description:-</b> Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 100 MT Capacity, consisting of a metal piston supported by a disc or un reinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per approved drawing and Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report after inspection of the bearings shall be submitted and got approved before the materials are lifted from the manufacturer premises. POT-cum -PTFE Guided (T)Bearing</p>						
	052160	400.00	Metre	335.83	134332.00	8.43	145656.19
29	<p><b>Description:-</b> Providing and fixing of Drainage Spouts of 110mm UPVC Type A ISI marked (Working pressure 4 kg/sqcm) using suitable clamps and adhesive etc., complete.</p>						
	Lump Sum				500000.00	8.43	542150.00
30	<p><b>Description :-</b> All IR USSOR 2019 items except cement (025061) and Steel reinforcement (025072)</p>						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
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<b>Schedule 2-Schedule B</b>							24520911.10	Above/ Below/Par
1	025061	3500.00	MT	6609.41	23132935.00	6.00	24520911.10	
<b>Description:-</b> Supply and using Cement at Worksite Ordinary Portland Cement 43 grade								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 3-Schedule C</b>							126031145.63	Above/ Below/Par
1	025072	1666500.00	Kg	70.35	117238275.00	7.50	126031145.63	
<b>Description:-</b> Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete Thermo-Mechanically Treated bars of grade Fe-500D or more.								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 4-Schedule D (CPWD DSR 2018)</b>							3562915.13	Above/ Below/Par
1	1	100.00	cum	7296.35	729635.00	10.69	807632.98	
<b>Description:-</b> 5.1.3: 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)								
2	2	50.00	cum	9306.00	465300.00	10.69	515040.57	
<b>Description:-</b> 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)								
3	1	2000.00	Kg	86.05	172100.00	10.69	190497.49	
<b>Description:-</b> 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.								
4	2	600.00	Kg	101.75	61050.00	10.69	67576.25	
<b>Description:-</b> 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.								
5	3	200.00	Kg	83.85	16770.00	10.00	18447.00	
<b>Description:-</b> 10.19 Providing and fixing miled steel round holding down bolts with nuts and washer plates complete.								
6	4	200.00	Kg	128.45	25690.00	10.69	28436.26	
<b>Description:-</b> 10.20 Providing and fixing bolts including nuts and washers complete.								
7	5	400.00	Sqm	156.75	62700.00	10.69	69402.63	
<b>Description:-</b> 16.1 Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 meters.								
8	6	50.00	cum	1840.05	92002.50	10.69	101837.57	
<b>Description:-</b> 16.3.1 90 mm to 45 mm size stone aggregate								
9	7	50.00	cum	1535.65	76782.50	10.69	84990.55	
<b>Description:-</b> 16.3.2 63 mm to 45 mm size stone aggregate								
10	8	50.00	cum	1749.75	87487.50	10.69	96839.91	
<b>Description:-</b> 16.3.3 - 53 mm to 22.4 mm size stone aggregate								
11	9	50.00	cum	1727.65	86382.50	10.69	95616.79	
<b>Description:-</b> 16.3.6 Stone screeing 13.2 mm nominal size (Type - A)								
12	10	50.00	cum	1978.50	98925.00	10.69	109500.08	
<b>Description:-</b> 16.3.7 Stone screeing 11.2 mm nominal size (Type - B)								
13	11	50.00	cum	807.80	40390.00	10.69	44707.69	
<b>Description:-</b> 16.3.10 Moorum								
14	12	250.00	cum	767.25	191812.50	10.69	212317.26	
<b>Description:-</b> 16.4 Laying, spreading and compacting stone aggregate of specified sized to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening/binding material to fill up interstices of coarse aggregate, watering and compacting to the required density.								
15	13	100.00	Sqm	8.05	805.00	10.69	891.05	

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	<b>Description:-</b> 16.31.1.2 On bituminous surface @ 0.25kg/sqm							
16	14	1500.00	Sqm	285.75	428625.00	10.69	474445.01	
	<b>Description:-</b> 16@46&46@3 With Refinery Modified Bitumen CRMB 55 conforming to IRC : SP : 53							
17	15	200.00	Sqm	215.95	43190.00	10.69	47807.01	
	<b>Description:-</b> 16.48.1 Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete. New work (Two or more coats)							
18	16	200.00	Each	196.40	39280.00	10.69	43479.03	
	<b>Description:-</b> 16.50 Providing and fixing Glow studs of size 100x20mm made of heavy duty body shall be moulded ASA (Acrylic sturene Acryloretrite) or HIP (High impact Polystyrene) or ABS having electronically welded micro-prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro-reflective surface shall be 35 (+/-5) degrees to base. The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.							
20	Lump Sum				500000.00	10.69	553450.00	
	<b>Description :-</b> All CPWD DSR 2018 Vol.I and II							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 5-Schedule E</b>							138407766.60	Above/ Below/Par
1	NS1	920.00	MT	105479.10	97040772.00	AT Par	97040772.00	
	<b>Description:-</b> Supplying & fabricating of steel girder spans as per the approved drawings for composite construction i.e. (steel + RCC) of superstructure of the Road over Bridge with contractor's own mild steel confirming to IS: 2062 Grade 250 (B0) with all welds, rivets, nuts, bolts, with contractor's own materials, fabrication, machinery, templates, fixtures, equipments tools and plants, transportation, skilled/unskilled labour, excise duty Octroi, sales tax and other taxes all leads lifts, descent, loading, unloading, crossing one or more Railway track if required etc complete and as per technical specifications. The rate is inclusive of transportation of fabricated girder parts to site by contractor's own means at his cost. The rate shall also be inclusive of cold straightening of deformed and bent girder parts before their assembly. The structural steel to be used should be manufactured by SAIL/RINL/TISCO only. Work has to be done as per drawings and specifications approved by Railway. Metalizing shall be done as per RDSO specification. NOTE:- (i) The Fabrication of girders must be got done from RDSO approved firms for Steel Bridge Girders only (ii) For payment purpose, nominal sectional weight of the girder as per drawing will only be considered. (iii) 50% payment will be made after supply of fabricated complete girder at site and balance 50% after assembling and launching complete. (iv) Inspection of girder shall be done by RDSO/Railway/DFCCIL. (v) Metalizing should be used and payment is made separately vide IRUSSOR- 2019 item No. 041050. The rate is inclusive of inspection & testing charges of RDSO/Railway/DFCCIL if any (vi) In case non availability of Bo grade steel then BR grade may be used with the prior approval of CA. The rate will be reduced of Rs 4,000/MT.							
2	NS2	920.00	MT	27700.83	25484763.60	AT Par	25484763.60	
	<b>Description:-</b> Assembling, Welding, Erecting, Riveting, Launching, bolting by HSFG bolts wherever required (As per approved drawings) with contractor's rivet materials, HSFG bolts services bolts, erection and launching of steel girder span to Railway's approved drawings with other ancillary steel structures fixed to the girder where necessary in proper level and alignment and as per technical specifications. The rate shall be inclusive of supply, erection and dismantling of staging and scaffolding and other temporary arrangements required for the purpose of assembly, erection and launching of girders. The rate shall also be inclusive of cold straightening of deformed and bent girder parts before/after their assembly. Work has to be done as per drawings and specification. The rate is including submission of launching scheme by contractor. The launching scheme should submit well in advance for approval of competent authority.							
3	NS3	2000.00	Kg	923.32	1846640.00	AT Par	1846640.00	
	<b>Description:-</b> Extra for using Super shield E71-T8 Electrode instead of regular flux core wire in all site welding							
4	NS4	400.00	Metre	416.22	166488.00	AT Par	166488.00	
	<b>Description:-</b> Searching & shifting of under ground signal /Telecom/OFC/Electric and other type of cables /bunch of cables lying under the alignment of pile groups of Pier/abutment by manual excavation of pile location in dia 1200mm upto 2 meter depth after locating the cable excavating the trenches manually having size upto 800x1700mm deep on both sides of pile cap in 6meter length (approx.6+7+6=19m in 1 pile) for loosening the cables to ensure proper shifting of cables away from alignment of pile group. The rate includes refilling the same trench manually without any harm to the cables and keeping them in safety with contractor's all labour, T&P, material, all lead & lift as directed by Engineer-in-Charge.							

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5	NS5	1000.00	cum	9007.82	9007820.00	AT Par	9007820.00
	<p><b>Description:-</b> Providing &amp; laying design mix control concrete using weigh batching method, M-35/M-40 using Cement, coarse sand of approved quality and mechanically crushed well graded coarse aggregate 20mm and down gauge in RCC DECK SLAB, CENTRE VERGE, END CANTILEVER, RAILING BEAM, ANTI CRASH RAILING etc. at the approved safe height and distance from live OHE wires carrying 25KV AC traction to cast monolithically to the required level as per approved drawing &amp; design over already launched main steel girder with proper joining arrangement through shear connector. The necessary shuttering arrangement has to be planned using already launched main steel girder. No support from ground will be allowed for this purpose. The rates includes for working under running traffic condition, all leads, lifts, ascents, descents, all other obstructions, cutting, hooking, bending, placing, keeping and maintaining in position steel reinforcement, cost of MS binding wire of approved gauge, designing concrete mix using weigh batching including arrangement of weigh batching plant, mechanical mixing, vibrating of concrete, use of admixtures if required, curing of concrete for a specified period finishing the exposed surface of concrete etc. complete. The contractor should made adequate arrangement below the girders to avoid falling of any thing over the track during working for the slab. The rate also includes design and provision of all temporary arrangement for casting, erection, scaffolding and submission of detailed design and drawing for temporary works and to ensure safety of running traffic at all times. Note: Cement &amp; reinforcement steel &amp; shuttering will be arranged by the contractor &amp; payment for the same will be made separately under relevant SOR/NS Items</p>						
6	NS 6	200.00	cum	6093.29	1218658.00	AT Par	1218658.00
	<p><b>Description:-</b> Providing and laying M-35 grade (using 43/53 grade ordinary Portland Cement) precast concrete facia wall (Area of each facia panel shall not be less than 1.5 sqm. Height shall not be less than 900mm, min 180mm thick) including design and getting the approval 'liner finishes as per the design requirements. PVC drainage pipes, 200mm precast cover facia for drainage pipes, joint filler, as per approved drawings, logo panels, geo-textile filter fabric for wrapping pipes etc. including filter media (500mm thick) behind the facia wall, drain sleeve in lower panels as per drawings and design, supplying and laying in position the specified and approved Geo- Grid soil reinforcement including cutting in required length, placing in position and connecting with the precast facia panels as per the design and drawings and direction of the Engineer-in- Charge all complete with all materials, labour, lead and lift ,plants, machinery, taxes royalty etc. complete. Item to include all incidental work required to complete the job as per drawing and specifications. The coping beam is not permitted and the top panels shall be casted in the inclined profile as per approved shop drawings. The cost of backfill between reinforced soil wall panels (except filter media) is not included in this item and shall be paid for separately, any ground improvement works for bearing capacity enhancement of ground (if required) shall also be included in the quoted rates. reinforcement used in precast facia panels is also included in the rates of this item. NOTES: (A) The scope of work in the above item includes: (a)All initial layout and alignment of reinforced soil wall after site clearance and excavation in all type of soils, existing road pavement including BM, AC, WMM, WBM etc. for the construction of Reinforced Soil wall structure including all components like reinforcing element, Precast panel, etc. dismantling of footpath, planters, etc. as per the directions of Engineer-in- Charge and preparing designs and shop drawings giving levels etc. The work shall be started only after approval of the design and shop drawings by Engineer-in-Charge. (b)Approval of the facia patterns on panels including name of clients etc. from the Engineer-in- Charge. Nothing extra shall be payable for mock ups and trials of the facia panels. The approved mock up facia shall be protected from any damage during execution of the work, this will form part of landscaping works. (c)Filter media min. 500mm thick with stone crushed aggregates as per approved drawings from the bed level to the top level of the embankment of reinforced earth structure and behind the facia panels for proper drainage as per approved drawings and particular specifications. (d)Providing and placing 200 mm dia HDPE perforated Pipe (perforation at top half only) wrapped in nonwoven geotextile and filled with filter media, as per drawings for the drainage of seepage water from the fill between RS walls. (e)All transportation, erection in position alignment and all incidental works as per approved shop drawings to the satisfaction of Engineer-in-Charge. (B)MEASUREMENT The reinforced Soil wall area shall be measured from top of concrete levelling pad at base to top of RCC facia wall panel for payment. No separate payment shall be made for any type of reinforcement, filter media, non- woven geotextile wrappers filter, perforated pipe, Geo -Grid, levelling pad/ course for any of the item/ incidental work required to complete the item as per direction of Engineerin- Charge.</p>						
7	NS7	250.00	cum	4835.30	1208825.00	AT Par	1208825.00
	<p><b>Description:-</b> RCC work with design mix control concrete using weigh batching method, M-35/M-40 using Cement, coarse sand of approved quality and mechanically crushed well graded coarse aggregate 20mm &amp; down size in WEARING COAT laid to required camber &amp; slope with temperature reinforcement as per specification and approved plan/design arrangement made for fixing of expansion joints and drainage spouts including cost of uncoiling, straightening, cutting, hooking, bending, binding including placing, keeping &amp; maintaining in position in all the reinforcement steel including cost of the binding wire, design mix with weigh batching mechanical mixing, use of admixtures if required, vibrating &amp; curing of concrete for a specified period. The rate includes for all ascend, descend, lead &amp; lift above/below ground level, all labour &amp; material as a complete job. Note: Cement &amp; reinforcement steel will be arranged by the contractor &amp; payment for the same will be made separately under relevant SOR/NS Items.</p>						
8	NS8	1200.00	Sqm	79.30	95160.00	AT Par	95160.00
	<p><b>Description:-</b> Painting Two Coats on New Concrete surfaces (crash barrier and curb stone) after filling the surface with synthetic enamel paint in all shades on new concrete surfaces.</p>						

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9	NS9	3000.00	Kg	117.84	353520.00	AT Par	353520.00
	<b>Description:-</b> Supplying, fabrication & fixing in position BRC protection screen with MS angle frame, expanded metal (XPM), GI Sheet of 16 gauge, J Bolts etc of approved Railway design with two coats of aluminium paints of approved manufacturer as per drawing no. RDSO/ETI/C/0068 with all contractor's labour, tools & plants, material, fuel, consumables, machinery, loading, unloading, lead & lift complete in all respect as a complete job as per specification & as directed by Engineer.						
10	NS10	8000.00	Each	248.14	1985120.00	AT Par	1985120.00
	<b>Description:-</b> Supplying and fixing 25mm dia. And 200mm long Stud shear connector with all contractor's labour, tools and plants, material, fuel, consumables, machinery, loading, unloading, lead & lift complete in all respect as a complete job as per specifications & as directed by Engineer, Stud shear connectors and ceramic ferrules shall confirm to TYPE SD1/UF as per BS EN ISO 13918-2008 and its Mechanical properties shall be as per ISO 6892/BS EN ISO 13918-D7 as per BS EN ISO 13918-2008. Welding shall be done by " Drawn Arc Stud welding with ceramic Ferrule" technique.						

**3. ITEM BREAKUP**

No item break up added
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**4. ELIGIBILITY CONDITIONS**

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

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Bid Document	No	No	Allowed (Mandatory)

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Bid Document	No	No	Allowed (Mandatory)

**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)

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	TechbidofROB12and31.pdf	Bid Document
2	NIT.pdf	NIT Document
3	ROB12_compressed.pdf	GAD ROB 12
4	ROB31_c.pdf	GAD ROB 31

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.



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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:** ARVIND KUMAR PANDEY

**Designation :** DYPM/ALD-E