

CGM/DFCCIL/ALD-WEST acting for and on behalf of The President of India invites E-Tenders against Tender No **PRYJ_W_EN_ROB32_2021_01** Closing Date/Time 28/01/2022 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

Name of Work	Construction of Two-Lane Road Over Bridge (ROB) Railway portion in lieu of level crossings No. 32C (62m BSG +18m Composite Girder) at IR KM 890/13-15 between Athsarai-Kanwar (ASCE-KUW) stations in PRYJ-CNB section of Prayagraj Division of North Central Railway.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	28/01/2022 15:00	Date Time Of Uploading Tender	
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	30/12/2021 11:00
Advertised Value	143411085.95	Tendering Section	CIVIL WORK
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money /Bid Security (Rs.)	0.00	Validity of Offer (Days)	120
Obtain Bid Security Declaration in lieu of Bid Security	Yes		
Tender Doc. Cost (Rs.)	0.00	Period of Completion	18 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	14/01/2022	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule A-Items of IRUSSOR-2019 items except item Nos. 025061 & 025072							23511252.04	Above/Below/Par
1	012010	1000.00	cum	275.11	275110.00	8.43	298301.77	
	Description:- 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.							
	012040	1000.00	cum	18.12	18120.00	8.43	19647.52	

2	<p>Description:- 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.</p>						
3	013101	400.00	Metre	205.31	82124.00	8.43	89047.05
	<p>Description:- 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</p>						
4	022011	1650.00	cum	174.58	288057.00	8.43	312340.21
	<p>Description:- 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	50.00	cum	2380.58	119029.00	8.43	129063.14
	<p>Description:- 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	30.00	cum	2403.32	72099.60	8.43	78177.60
	<p>Description:- 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	600.00	cum	2472.32	1483392.00	8.43	1608441.95
	<p>Description:- 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 & Pile cap including finishing, using Admixtures in approved proportions (as per IS:9103), to modify workability & 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	300.00	cum	2719.55	815865.00	8.43	884642.42
	<p>Description:- 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 & 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 & Pier</p>						
	022053	325.00	cum	2843.17	924030.25	8.43	1001926.00

9	<p>Description:- 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 & 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 & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.</p>						
10	022092	980.00	Metre	9002.76	8822704.80	8.43	9566458.81
	<p>Description:- 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) & reinforcement shall be paid extra. 1200mm diameter</p>						
11	022123	1.00	Each	84758.35	84758.35	8.43	91903.48
	<p>Description:- 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 Initial load test above 100 ton capacity upto 250 ton capacity pile</p>						
12	022124	10.00	Each	7800.18	78001.80	8.43	84577.35
	<p>Description:- 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 Extra for every increase of 50 ton in pile capacity or part thereof over 250 ton</p>						
13	022127	1.00	Each	54895.58	54895.58	8.43	59523.28
	<p>Description:- 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</p>						
14	022140	36.00	Each	3037.12	109336.32	8.43	118553.37
	<p>Description:- 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.</p>						
15	025031	2550.00	Sqm	602.78	1537089.00	8.43	1666665.60
	<p>Description:- 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</p>						
16	025032	990.00	Sqm	783.89	776051.10	8.43	841472.21
	<p>Description:- 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</p>						

17	025033	3635.00	Sqm	97.26	353540.10	8.43	383343.53	
	Description:- 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	36.00	Metre	8445.15	304025.40	8.43	329654.74	
	Description:- 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	4000.00	Sqm	818.55	3274200.00	8.43	3550215.06	
	Description:- 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-B1-2001Note: 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	2000.00	Kg	86.71	173420.00	8.43	188039.31	
	Description:- 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	041131	1.00	Each	86500.96	86500.96	8.43	93792.99	
	Description:- Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 300MT 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	041132	1.00	Each	121527.03	121527.03	8.43	131771.76	
	Description:- Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 300MT 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							
	041133	1.00	Each	146775.31	146775.31	8.43	159148.47	

23	<p>Description:- Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 300MT 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>							
24	041134	1.00	Each	140658.10	140658.10	8.43	152515.58	
25	<p>Description:- Design, supply, fitting and fixing in position true to line and level POT-PTFE bearing of 300MT 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>							
26	041171	3.00	Each	27493.11	82479.33	8.43	89432.34	
27	<p>Description:- 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>							
28	041172	2.00	Each	28933.68	57867.36	8.43	62745.58	
	<p>Description:- 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	
	<p>Description:- 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>							

28	041174	3.00	Each	37236.10	111708.30	8.43	121125.31	
	Description:- 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							
29	052160	109.71	Metre	335.83	36843.91	8.43	39949.85	
	Description:- 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.							
30	031111	1.00	Each	76146.71	76146.71	8.43	82565.88	
	Description:- Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/Railway codes with contractor's labour, deflection measuring instruments, loading materials, recoding and analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges/loading material etc. The load shall be 1.25 times the stipulated design load For Span design load upto 100 MT							
31	031112	50.00	MT	750.93	37546.50	8.43	40711.67	
	Description:- Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/Railway codes with contractor's labour, deflection measuring instruments, loading materials, recoding and analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges/loading material etc. The load shall be 1.25 times the stipulated design load Extra for every increase 1 MT or part thereof in the span design load capacity upto 800 MT							
32	052260	40.00	cum	1465.95	58638.00	8.43	63581.18	
	Description:- Supplying, spreading and filling coarse sand (no cohesive materials to be used) of approved quality including watering and ramming in foundation, plinth, behind the abutment, wing wall, retaining wall in layers not exceeding 150mm thick including its compaction as per direction of Engineer-in-charge. The rate includes all lead, lift, ascent, descent, crossing of Railway line etc. complete with contractor's labour, materials, tools and plant.							
33	Lump Sum				1000000.00	8.43	1084300.00	
	Description :- Any other IRUSSOR-2019 item except item Nos. 025061 & 025072 not included in this Schedule and incidental to the work (Lump Sum)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-IRUSSOR-2019 items- Item No. 025061 (Railway Portion)							9808364.44	Above/Below/Par
1	025061	1400.00	MT	6609.41	9253174.00	6.00	9808364.44	
Description:- 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
Schedule C-IRUSSOR-2019 items- Item No. 025072 (Railway Portion)							31006762.50	Above/Below/Par
	025072	410000.00	Kg	70.35	28843500.00	7.50	31006762.50	

Description:- 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
Schedule D-All CPWD-DSR-2018 items							4795760.65	Above/Below/Par
1	1	5.00	cum	6376.25	31881.25	10.69	35289.36	
	Description:- 6.1.1: Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)							
2	2	5.00	cum	6157.45	30787.25	10.69	34078.41	
	Description:- 6.1.2: Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)							
3	3	5.00	cum	7809.25	39046.25	10.69	43220.29	
	Description:- 6.4.1: 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 :Cement mortar 1:4 (1 cement : 4 coarse sand)							
4	4	20.00	cum	7590.45	151809.00	10.69	168037.38	
	Description:- 6.4.2: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 :Cement mortar 1:6 (1 cement : 6 coarse sand)							
5	5	150.00	cum	7296.35	1094452.50	10.69	1211449.47	
	Description:- 5.1.3:"Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : "1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)							
6	6	1500.00	Kg	86.05	129075.00	10.69	142873.12	
	Description:- 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.							
7	7	15500.00	Kg	101.75	1577125.00	10.69	1745719.66	
	Description:- 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.							
8	8	150.00	Kg	83.85	12577.50	10.69	13922.03	
	Description:- 10.19:Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.							
9	9	150.00	Kg	128.45	19267.50	10.69	21327.20	
	Description:- 10.20:Providing and fixing bolts including nuts and washers complete.							
10	10	972.00	Sqm	8.05	7824.60	10.69	8661.05	
	Description:- 16.31.1.2: Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.On bituminous surface @ 0.25kg/sqm							
11	11	750.00	Sqm	285.75	214312.50	10.69	237222.51	
	Description:- Bitumastic sheet with hot bitumen of approved quality as per description of DSR 2018 item no 16 38 3							
	12	100.00	Sqm	215.95	21595.00	10.69	23903.51	

12	Description:- 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)						
13	13	60.00	Metre	305.05	18303.00	10.69	20259.59
	Description:- 12.41.2:"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."110 mm diameter						
14	14	8.00	Each	129.85	1038.80	10.69	1149.85
	Description:- 12.42.5.2:"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."Bend 87.5° 110 mm bend						
15	15	8.00	Each	113.80	910.40	10.69	1007.72
	Description:- 12.42.6.2:"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."Shoe (Plain) 110 mm Shoe						
16	16	150.00	Sqm	276.15	41422.50	10.69	45850.57
	Description:- 13.4.1:12 mm cement plaster of mix :1:4 (1 cement: 4 coarse sand)						
17	17	200.00	Sqm	91.25	18250.00	10.69	20200.92
	Description:- 13.44.1:Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)						
18	18	500.00	Sqm	112.25	56125.00	10.69	62124.76
	Description:- 13.63.1:Painting with aluminium paint of approved brand and manufacture to give an even shade .Two or more coats on new work						
19	19	15.00	cum	1737.45	26061.75	10.69	28847.75
	Description:- 15.2.1:Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)						
20	20	10.00	cum	2534.70	25347.00	10.69	28056.59
	Description:- 15.3:Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.						
21	21	40.00	cum	1469.90	58796.00	10.69	65081.29
	Description:- 15.7.4:Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.In cement mortar						
22	22	4.00	Each	380.60	1522.40	10.69	1685.14
	Description:- 2.33.1:Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 30 cm girth upto and including 60 cm girth						
23	23	4.00	Each	1694.40	6777.60	10.69	7502.13
	Description:- 2.33.2:Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 60 cm girth upto and including 120 cm girth						
24	24	2.00	Each	7860.55	15721.10	10.69	17401.69

	Description:- 2.33.3:Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 120 cm girth upto and including 240 cm girth						
25	25	100.00	Each	196.40	19640.00	10.69	21739.52
	Description:- 16.50:Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene 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) degress 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.						
26	26	300.00	Sqm	121.55	36465.00	10.69	40363.11
	Description:- 13.61.1:"Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work"						
27	27	425.00	Sqm	91.25	38781.25	10.69	42926.97
	Description:- 13.44.1:"Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)"						
28	28	700.00	Sqm	196.70	137690.00	10.69	152409.06
	Description:- 13.26:Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete						
29	Lump Sum				500000.00	10.69	553450.00
	Description :- Any other CPWD-DSR-2018 item not included in this Schedule and incidental to the work (Lump Sum)						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule E-NS Items							74288946.32	Above/Below/Par
	NS01	500.00	MT	107037.91	53518955.00	AT Par	53518955.00	

1	<p>Description:- 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 conforming 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) only HSFG bolts shall be used for bolting. (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/DFGCCIL. (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 nonavailability of Bo grade steel then BR grade may be used with the prior approval of CA. The rates will be reduced of Rs. 4000/- MT. Note: Since sacrificial shuttering is not part of girder, its payment should be made under relevant items of CPWD DSR-2018. Since in deck slab concreting, Sacrificial shuttering is paid separately, suitable deduction in concreting item of deck slab needs to be made in case the item of concreting includes shuttering (Authority: HQ/Const/ALD letter no.321-W/CE/C/ALD/ ROB RUB/Pt-X dt. 01.05.2014/04.08.2014)</p>						
2	NS02	400.00	MT	3666.06	1466424.00	AT Par	1466424.00
	<p>Description:- Extra over NS Item no.1 for supplying & fabrication of steel girder as per RDSO drawing for Road Over Bridge BOW string girder with contractor's own steel of E-350 Gr B0 in place of steel E250 Gr. B0.</p>						
3	NS03	410.00	MT	28110.20	11525182.00	AT Par	11525182.00
	<p>Description:- "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""Note: For Payment purpose, nominal weight of the girder as per drawing will only be considered. No deduction will be made for holes and also no extra payments will be made for riveting, bolting and welding. The contractor has to submit launching scheme and detailed drawing of each component of the launching scheme duly designed by the reputed consultant and proof checked by the reputed institutes like IITs/NITs only and the same has to be got approved by the railways/ commissioner of railway safety and nothing extra shall be paid on this account. Mode of payment:70% of rate shall be made on completion of welding, riveting, launching and complete erection with drifts and service bolts in position with lowering and placing of girder in position. 25% of rate shall be made on testing and replacing of loose rivets, placing of girder on bearing, painting etc. complete in all respect. Balance 5% shall be made after final approval of DFCCIL and successful completion of work."</p>						
4	NS04	2000.00	Kg	936.96	1873920.00	AT Par	1873920.00
	<p>Description:- Extra for using Super shield E71-T8 Electrode instead of regular flux core wire in all site welding</p>						
	NS05	200.00	Metre	422.37	84474.00	AT Par	84474.00

5	<p>Description:- 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.</p>						
6	NS06	450.00	cum	9140.94	4113423.00	AT Par	4113423.00
	<p>Description:- Providing & 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 & 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 & reinforcement steel & shuttering will be arranged by the contractor & payment for the same will be made separately under relevant SOR/NS Items</p>						
7	NS07	80.00	cum	4906.76	392540.80	AT Par	392540.80
	<p>Description:- 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 & down size in WEARING COAT laid to required camber & 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 & 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 & curing of concrete for a specified period. The rate includes for all ascend, descend, lead & lift above/below ground level, all labour & material as a complete job. Note: Cement & reinforcement steel will be arranged by the contractor & payment for the same will be made separately under relevant SOR/NS Items.</p>						
8	NS08	2728.00	Kg	117.84	321467.52	AT Par	321467.52
	<p>Description:- 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.</p>						
9	NS09	4000.00	Each	248.14	992560.00	AT Par	992560.00
	<p>Description:- 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.</p>						

3. ITEM BREAKUP

No item break up added

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	TechnicalBidFinal23.12.2021.pdf	Bid Document
2	NIT_1.pdf	NIT Document
3	GADROB32compressed.pdf	GAD ROB 32

Signed By: RAJESH AGARWAL

Designation : Dy.GMEgg