

**EDFC FIELD UNIT-TUNDLA-CIVIL/EDFC
TENDER DOCUMENT**

Tender No: EDFC_CGM_TDL_ROB_94R2

Closing Date/Time: 27/10/2022 15:00

CGM/DFCCIL/TDL acting for and on behalf of The President of India invites E-Tenders against Tender No EDFC_CGM_TDL_ROB_94R2 Closing Date/Time 27/10/2022 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.

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

| | | | |
|------------------------------------|---|--|-------------------|
| Name of Work | Construction of balance work of two lane Road Over Bridge (excluding approaches) at 01 No. Level Crossing in lieu of level crossings No. 94B at DFC Chainage 532/15-17 between New Bhaupur to New Kanchosi section of CGM/TDL of Eastern Dedicated Freight Corridor Corporation of India Limited. | | |
| Bidding type | Normal Tender | | |
| Tender Type | Open | Bidding System | Two Packet System |
| Tender Closing Date Time | 27/10/2022 15:00 | Date Time Of Uploading Tender | 03/10/2022 11:41 |
| Pre-Bid Conference Required | No | Pre-Bid Conference Date Time | Not Applicable |
| Advertised Value | 111747000.79 | Tendering Section | CIVIL |
| Bidding Style | Single Rate for Each Schedule | Bidding Unit | |
| Earnest Money (Rs.) | 708800.00 | Validity of Offer (Days) | 120 |
| Tender Doc. Cost (Rs.) | 11800.00 | Period of Completion | 8 Months |
| Contract Type | Works | Contract Category | Expenditure |
| Bidding Start Date | 13/10/2022 | 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-SCHEDULE 'A' (Items as per USSOR-2019) | | | | | | | 48038223.84 | Above/ Below/Par |
| 01 | Please see Item Breakup for details. | | | 9750.40 | AT Par | 9750.40 | | |
| | Description:- 013100-Providing and removing barricading with the help of portable fencing along the running track where the work is to be done in close vicinity of the track. Fencing shall consist of self supporting steel angles of size 50x50x 6mm,1.5m long provided with hooks etc.and embedded in CC 1:2:4 block of size 0.23x0.23x0.23m placed at c/c distance of 2m along the track.12mm dia rods in three horizontal layers tack welded with the angle posts including providing retro-reflective tapes in Horizontal & vertical direction. Note : Released material will be the property of the contractor after the completion of work. Cost of cement to be paid separately. | | | | | | | |
| 02 | Please see Item Breakup for details. | | | 57002.00 | AT Par | 57002.00 | | |
| | Description:- 022010-Earthwork in excavation 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 specifications as directed by Engineer | | | | | | | |
| 03 | Please see Item Breakup for details. | | | 29628.24 | AT Par | 29628.24 | | |
| | Description:- 022030-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 : | | | | | | | |
| 04 | 022040 | 150.00 | cum | 2935.38 | 440307.00 | AT Par | 440307.00 | |
| | 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. | | | | | | | |
| | Please see Item Breakup for details. | | | 1712193.77 | AT Par | 1712193.77 | | |

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|----|---|--------|-------|-------------|------------|-------------|------------|
| 05 | Description:- 022050-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. | | | | | | |
| | Please see Item Breakup for details. | | | 3682576.80 | AT Par | 3682576.80 | |
| 06 | Description:- 022090-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 up to the bottom of pile cap excluding the mud mat. Payment for cement, permanent casing pipe (if any) & reinforcement shall be paid extra. | | | | | | |
| | Please see Item Breakup for details. | | | 553629.58 | AT Par | 553629.58 | |
| 07 | Description:- 025030-Centring and shuttering including strutting, propping etc. and removal of form for : | | | | | | |
| | Please see Item Breakup for details. | | | 65177.46 | AT Par | 65177.46 | |
| 08 | Description:- 022120-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 | | | | | | |
| | Please see Item Breakup for details. | | | 24383.96 | AT Par | 24383.96 | |
| 09 | Description:- 022130-Lateral load testing of single pile in accordance with "IS Code of practice IS:2911 (Part-IV) for determining safe allowable lateral load of pile" with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification as directed by the Engineer | | | | | | |
| | 022140 | 14.00 | Each | 3605.97 | 50483.58 | AT Par | 50483.58 |
| 10 | 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. | | | | | | |
| | 025040 | 244.68 | Sqm | 5062.49 | 1238690.05 | AT Par | 1238690.05 |
| 11 | Description:- Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M-35 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in jacketing of piers and abutments from bottom of foundation upto a height of 10m including finishing for average 30cm thickness of jacketing. Payment for reinforcement, cement, wire mesh, shuttering, drilling of holes and insertion of rods will be made extra. | | | | | | |
| | 025041 | 15.60 | Metre | 174.30 | 2719.08 | AT Par | 2719.08 |
| 12 | Description:- Extra for Drilling 32 mm dia holes for jacketing/anchoring | | | | | | |
| | 025042 | 210.00 | Metre | 15.31 | 3215.10 | AT Par | 3215.10 |
| 13 | Description:- Inserting of dowel bars of specified dia. (cost of rods to be paid extra) | | | | | | |
| | Please see Item Breakup for details. | | | 401076.40 | AT Par | 401076.40 | |
| 14 | Description:- 31100-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 | | | | | | |
| | Please see Item Breakup for details. | | | 179566.91 | AT Par | 179566.91 | |
| 15 | Description:- 031110-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. | | | | | | |
| | Please see Item Breakup for details. | | | 38928849.76 | AT Par | 38928849.76 | |

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| | | | | | | | |
|----|--|---------|-------|---------|-----------|--------|-----------|
| 16 | Description:- 041010-Supplying, fabrication, assembling of all types of steel girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions (not requiring traffic block) on sub-structure including provision of trolley refuges etc., complete as per approved QAP and drawings conforming to IRS-B1-2001 and other relevant codes and specifications. Note: 1. Detailed fabrication and erection drawings & launching methodology will be prepared by the contractor and got approved from Railway. 2. The item includes fabrication of all types of battens, bracings, ties, stiffeners, packing, diaphragms, shop rivets / welding, T&F bolts, drifts, SAW, templates, jigs, fixtures, accessories, transporting various components from fabrication shop to site including loading & unloading, assembly of girders with drifts/bolts, field riveting /welding /HSFG Bolting, assembling of temporary support for side slewing, raising of girders to the bed block level, providing sliding arrangements and slewing the girder in position, lowering of girder on bearings and bed plates with all temporary arrangements or any other method of launching complete. 3. The bearing sets to be provided with the girders will be paid separately as per relevant item. 4. Payment for addition in weight for rivets / welds shall be made as per clause 45 of IRS B-1-2001. 5. In case of composite work (welding and HSFG bolts), addition in weight shall be 1% for welding and HSFG bolts shall be paid separately under relevant item. 6. Painting of girders will be paid separately under relevant item. 7. Payment Schedule: (i) Receipt of material at site: 40% (ii) Fabrication of girders: 20% (iii) Erection/Launching: 20% (iv) Completion in all respects: 20% | | | | | | |
| 17 | 041070 | 2869.97 | Kg | 87.36 | 250720.58 | AT Par | 250720.58 |
| | Description:- Supplying and fixing M.S. Angles 65mmx 65mmx 8mm or any other size conforming to IS:2062 in the nosing of steps of stair cases of Foot Over Bridges including provision of 10mm dia, anchor bar 600mm c/c and fixing with main girder with M.S. flat, making anti-slip arrangements over the top of nosing as per approved scheme given by Engineer in charge with all material, labour, T&P as a complete job. | | | | | | |
| 18 | 052160 | 960.00 | Metre | 398.73 | 382780.80 | AT Par | 382780.80 |
| | 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. | | | | | | |
| 19 | 052073 | 18.06 | Kg | 1410.43 | 25472.37 | AT Par | 25472.37 |
| | Description:- Epoxy Grout | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|---|----------|----------|-----------|-------------|----------|------------|---------------------|
| Schedule B-SCHEDULE 'B' (Supply of Cement) | | | | | | | 5068014.60 | Above/ Below/Par |
| 20 | Please see Item Breakup for details. | | | | 5068014.60 | AT Par | 5068014.60 | |
| | Description:- 025060-Supply and using Cement at Worksite | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--|---|----------|----------|-----------|-------------|----------|-------------|---------------------|
| Schedule C-SCHEDULE 'C' (Supply of Reinforcement) | | | | | | | 17866080.00 | Above/ Below/Par |
| 21 | Please see Item Breakup for details. | | | | 17866080.00 | AT Par | 17866080.00 | |
| | Description:- 025070-Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--|--|----------|----------|-----------|-------------|----------|------------|---------------------|
| Schedule D-SCHEDULE 'D' (Items as per DSR-2018) | | | | | | | 3679594.06 | Above/ Below/Par |
| 22 | Please see Item Breakup for details. | | | | 316991.62 | AT Par | 316991.62 | |
| | Description:- 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 | | | | | | | |
| 23 | Please see Item Breakup for details. | | | | 1136703.57 | AT Par | 1136703.57 | |
| | Description:- 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: | | | | | | | |
| 24 | Please see Item Breakup for details. | | | | 136785.18 | AT Par | 136785.18 | |
| | Description:- 4.4-Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing. | | | | | | | |
| 25 | Please see Item Breakup for details. | | | | 578348.33 | AT Par | 578348.33 | |

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|----|---|-----------|--------|-----------|-----------|--------|-----------|
| | Description:- 5.9-Centering and shuttering including strutting, propping etc. and removal of form work for : | | | | | | |
| 26 | Please see Item Breakup for details. | 106092.72 | AT Par | 106092.72 | | | |
| | Description:- 6.1-Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in : | | | | | | |
| 27 | Please see Item Breakup for details. | 149970.00 | AT Par | 149970.00 | | | |
| | Description:- 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. | | | | | | |
| 28 | Please see Item Breakup for details. | 215259.10 | AT Par | 215259.10 | | | |
| | Description:- 10.26-Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. | | | | | | |
| 29 | Please see Item Breakup for details. | 52279.47 | AT Par | 52279.47 | | | |
| | Description:- 11.19-Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) | | | | | | |
| 30 | Please see Item Breakup for details. | 11351.73 | AT Par | 11351.73 | | | |
| | Description:- 13.1-12 mm cement plaster of mix - | | | | | | |
| 31 | Please see Item Breakup for details. | 7539.15 | AT Par | 7539.15 | | | |
| | Description:- 13.61-Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : | | | | | | |
| 32 | Please see Item Breakup for details. | 15571.50 | AT Par | 15571.50 | | | |
| | Description:- 13.98-Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: | | | | | | |
| 33 | D | 311.50 | cum | 2901.85 | 903926.28 | AT Par | 903926.28 |
| | 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 | | | | | | |
| 34 | D | 1552.87 | Kg | 7.67 | 11910.51 | AT Par | 11910.51 |
| | Description:- 15.6-Extra for scraping, cleaning, straightening reinforcement from R.C.C. or R.B. work | | | | | | |
| 35 | Please see Item Breakup for details. | 24723.00 | AT Par | 24723.00 | | | |
| | Description:- 16.48-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. | | | | | | |
| 36 | D | 54.00 | Each | 224.85 | 12141.90 | AT Par | 12141.90 |
| | Description:- 16.5-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) 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 Code Description Unit Rate No. SUB HEAD : 16.0 ROAD WORK 279 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. | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|--|----------|----------|-----------|-------------|----------|-------------|---------------------|
| Schedule E-SCHEDULE 'E' (Non-Schedule Items) | | | | | | | 37095088.29 | Above/ Below/Par |
| 37 | NS1 | 275.00 | cum | 9926.13 | 2729685.75 | AT Par | 2729685.75 | |
| | Description:- Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete M-35/M-40 grade (Cast in situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in RCC deck slab laid to required camber including end cantilever,RCC crash barrier, RCC railing, etc. including pumping of concrete to site of laying, finishing, using admixtures in recommended proportions (as per IS: 9103), if approved in mix design to accelerate or retard setting of concrete,improve workability without impairing strength and durability with all contractor's labour,tools & plants, material,fuel, consumables, machinery, loading, unloading, lead and lift complete in all respect as a complete job as per specification & as directed by Engineer. | | | | | | | |
| | NS2 | 65.00 | cum | 5328.24 | 346335.60 | AT Par | 346335.60 | |

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|----|--|-----------|-------|---------|-------------|--------|-------------|
| 38 | Description:- Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete M-40 grade (Cast in situ) using 20 mm crushed stone aggregate and coarse sand of approved quality in wearing coat & footpath including pumping of concrete to site of laying, finishing, using admixtures in recommended proportions (as per IS: 9103), if approved in mix design to accelerate or retard setting of concrete, improve workability without impairing strength and durability 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. | | | | | | |
| 39 | NS3 | 1500.00 | Kg | 131.38 | 197070.00 | AT Par | 197070.00 |
| | 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. | | | | | | |
| 40 | Please see Item Breakup for details. | | | | 1696776.34 | AT Par | 1696776.34 |
| | Description:- NS4-Manufacturing, Supplying and fixing of POT / POT-PTFE bearings as per approved drawings for the following spans at site including fitting and fixing in position true to line and level with all contractor's materials, labour, tools and plants, loading, unloading and stacking at site as per specification/drawing or as directed by engineer as a complete job.:- The drawing upto last alteration / revision/amendment shall be followed. Cast steel of grade 280 - 520 W or 340 - 570 W of IS 1030 shall be used. Each set of bearing shall include 10 nos of bearings (2 POT bearings and 8 POT - PTFE bearings) and all bolts and all other components connected with bearings as shown in respective drawings. The supply of POT / POT-PTFE bearing shall include all materials shown in the drawings. The supply also includes supply of all holding down bolts to fix the bearings at the bottom on pedestal and all bolts to fix the bearings to the bottom of girder. 75% payment shall be made after supply of each set at site on submission of indemnity bond and balance 25% shall be made after fixing of bearings. | | | | | | |
| 41 | NS5 | 148200.00 | Kg | 172.23 | 25524486.00 | AT Par | 25524486.00 |
| | Description:- Design supplying, cutting, fixing and fabricating steel sheet pile of required shape, size, thickness, depth and weight conforming to IS 2314 including loading, unloading, leading, assembling and driving at site with use of vibro-hammer as directed by site engineer including all labour, material and taxes as a complete job. Work shall be executed as per provisions of Appendix-VII of IRS-B1-2001 and provision contained in chapter 21 of Indian Railway unified standard specification. | | | | | | |
| 42 | NS6 | 53100.00 | Kg | 120.65 | 6406515.00 | AT Par | 6406515.00 |
| | Description:- Structural steel work; welded in built up sections, using 3.15mm thick MS sheet, flat of size 65X8 mm, etc including cutting, bending, straightening, hoisting, fixing in position, including applying a priming coat of approved steel primer, complete - and fixing of plate with main girders as per approved drawing of deck slab shuttering | | | | | | |
| 43 | NS7 | 134.00 | Metre | 1449.40 | 194219.60 | AT Par | 194219.60 |
| | Description:- Providing and fixing 65mm dia GI Pipe of medium class on the top of RCC crash barrier as a railing with supports of 12 mm thick m s plate cut to shape as vertical along with 50 x 10mm thick m s plate all round welded to vertical including 25 mm wide and 3 mm thick collar plate, verticals welded on base plate of size 120 x 120 x 16 mm, 4 nos 10 dia galvanized m s holding down bolts with nuts and washers, 4 nos 10 dia MS rod of 48mm long welded to m s holding down bolts, verticals shall be @ 1.50 m C / C including two or more coats of synthetic enamel paint of required shade over one coat of zinc chromate primer with all contractor's materials, labour, tools and plants, loading, unloading and stacking at site as per specification/drawing and as directed by engineer as a complete job. | | | | | | |

3. ITEM BREAKUP

| | | | | | | |
|-----------------|---|---|-------------|------------|--------------|----------------|
| Schedule | Schedule A-SCHEDULE 'A' (Items as per USSOR-2019) | | | | | |
| Item- 01 | 013100-Providing and removing barricading with the help of portable fencing along the running track where the work is to be done in close vicinity of the track. Fencing shall consist of self supporting steel angles of size 50x50x 6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23x0.23x0.23m placed at c/c distance of 2m along the track. 12mm dia rods in three horizontal layers tack welded with the angle posts including providing retro-reflective tapes in Horizontal & vertical direction. Note : Released material will be the property of the contractor after the completion of work. Cost of cement to be paid separately. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 013101 | With provision of one 50mm wide retro-reflective tape in horizontal direction, duly secured/tight with vertical posts | Metre | 40.00 | 243.76 | 9750.40 |
| | | | | | Total | 9750.40 |

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| Item- 02 | 022010-Earthwork in excavation 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 specifications as directed by Engineer | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 022011 | All kinds of soils | cum | 275.00 | 207.28 | 57002.00 |
| | | | | | Total | 57002.00 |
| Item- 03 | 022030-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 : | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 022032 | 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) | cum | 2.00 | 2907.16 | 5814.32 |
| 2 | 022034 | 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size) | cum | 8.00 | 2976.74 | 23813.92 |
| | | | | | Total | 29628.24 |
| Item- 05 | 022050-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. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 022051 | Abutment & Pier | cum | 258.45 | 3228.92 | 834514.37 |
| 2 | 022053 | Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. | cum | 260.00 | 3375.69 | 877679.40 |
| | | | | | Total | 1712193.77 |
| Item- 06 | 022090-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 up to the bottom of pile cap excluding the mud mat. Payment for cement, permanent casing pipe (if any) & reinforcement shall be paid extra. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 022093 | 1000mm diameter | Metre | 420.00 | 8768.04 | 3682576.80 |
| | | | | | Total | 3682576.80 |
| Item- 07 | 025030-Centring and shuttering including strutting, propping etc. and removal of form for : | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 025031 | 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 | 741.30 | 715.68 | 530533.58 |
| 2 | 025033 | 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 | sqm per metre height | 200.00 | 115.48 | 23096.00 |
| | | | | | Total | 553629.58 |

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| | | | | | | |
|-----------------|---|--|-------------|------------|--------------|--------------------|
| Item- 08 | 022120-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 | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 022127 | Routine Load Test above 100 ton capacity upto 250 ton capacity pile | Each | 1.00 | 65177.46 | 65177.46 |
| | | | | | Total | 65177.46 |
| Item- 09 | 022130-Lateral load testing of single pile in accordance with "IS Code of practice IS:2911 (Part-IV) for determining safe allowable lateral load of pile" with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification as directed by the Engineer | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 022131 | Piles with lateral load capacity of above 10 ton & upto 20 ton | Each | 1.00 | 24383.96 | 24383.96 |
| | | | | | Total | 24383.96 |
| Item- 14 | 31100-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 | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 031102 | For 80mm expansion | Metre | 40.00 | 10026.91 | 401076.40 |
| | | | | | Total | 401076.40 |
| Item- 15 | 031110-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. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 031062 | Extra for every increase of 1 MT or part thereof in the span load capacity upto 800 MT | MT | 100.00 | 891.58 | 89158.00 |
| 2 | 031111 | For Span design load upto 100 MT | Each | 1.00 | 90408.91 | 90408.91 |
| | | | | | Total | 179566.91 |
| Item- 16 | 041010-Supplying, fabrication, assembling of all types of steel girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions (not requiring traffic block) on sub-structure including provision of trolley refuges etc., complete as per approved QAP and drawings conforming to IRS-B1-2001 and other relevant codes and specifications. Note: 1. Detailed fabrication and erection drawings & launching methodology will be prepared by the contractor and got approved from Railway. 2. The item includes fabrication of all types of battens, bracings, ties, stiffeners, packing, diaphragms, shop rivets / welding, T&F bolts, drifts, SAW, templates, jigs, fixtures, accessories, transporting various components from fabrication shop to site including loading & unloading, assembly of girders with drifts/bolts, field riveting /welding /HSFG Bolting, assembling of temporary support for side slewing, raising of girders to the bed block level, providing sliding arrangements and slewing the girder in position, lowering of girder on bearings and bed plates with all temporary arrangements or any other method of launching complete. 3. The bearing sets to be provided with the girders will be paid separately as per relevant item. 4. Payment for addition in weight for rivets / welds shall be made as per clause 45 of IRS B-1-2001. 5. In case of composite work (welding and HSFG bolts), addition in weight shall be 1% for welding and HSFG bolts shall be paid separately under relevant item. 6. Painting of girders will be paid separately under relevant item. 7. Payment Schedule: (i) Receipt of material at site: 40% (ii) Fabrication of girders: 20% (iii) Erection/Launching: 20% (iv) Completion in all respects: 20% | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 041011 | PlatesGirder/ Semi through girder | MT | 342.57 | 113637.65 | 38928849.76 |
| | | | | | Total | 38928849.76 |
| Schedule | Schedule B-SCHEDULE 'B' (Supply of Cement) | | | | | |
| Item- 20 | 025060-Supply and using Cement at Worksite | | | | | |

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| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
|-----------------|---|--|------|-----------|--------------|--------------------|
| 1 | 025061 | Ordinary Portland Cement 43 grade | MT | 660.00 | 7678.81 | 5068014.60 |
| | | | | | Total | 5068014.60 |
| Schedule | Schedule C-SCHEDULE 'C' (Supply of Reinforcement) | | | | | |
| Item- 21 | 025070-Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 025072 | Thermo-Mechanically Treated bars of grade Fe-500D or more | Kg | 228000.00 | 78.36 | 17866080.00 |
| | | | | | Total | 17866080.00 |
| Schedule | Schedule D-SCHEDULE 'D' (Items as per DSR-2018) | | | | | |
| Item- 22 | 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 | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 4.1.2 | 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size) | cum | 38.40 | 8254.99 | 316991.62 |
| | | | | | Total | 316991.62 |
| Item- 23 | 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: | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 4.2.2 | 1:1½:3 (1 cement : 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). | cum | 110.61 | 10276.68 | 1136703.57 |
| | | | | | Total | 1136703.57 |
| Item- 24 | 4.4-Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 4.4.1 | 1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size) | cum | 16.57 | 8254.99 | 136785.18 |
| | | | | | Total | 136785.18 |
| Item- 25 | 5.9-Centering and shuttering including strutting, propping etc. and removal of form work for : | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 5.9.1 | Foundations, footings, bases for columns | Sqm | 38.40 | 326.11 | 12522.62 |
| 2 | 5.9.3 | Suspended floors, roofs, landings, balconies and access platform | Sqm | 114.64 | 793.44 | 90959.96 |
| 3 | 5.9.5 | Lintels, beams, plinth beams, girders, bressumers and cantilevers | Sqm | 195.79 | 632.01 | 123741.24 |
| 4 | 5.9.6 | Columns, Pillars, Piers, Abutments, Posts and Struts | Sqm | 375.46 | 839.98 | 315378.89 |
| 5 | 5.9.7 | Stairs, (excluding landings) except spiral-staircases | Sqm | 50.17 | 712.49 | 35745.62 |
| | | | | | Total | 578348.33 |
| Item- 26 | 6.1-Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in : | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 6.1.2 | Cement mortar 1:6 (1 cement : 6 coarse sand) -wall | cum | 15.05 | 7049.35 | 106092.72 |
| | | | | | Total | 106092.72 |
| Item- 27 | 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. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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| | | | | | | |
|-----------------|--|--|-------------|------------|--------------|-------------------|
| 1 | 10.25.2 | In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works | Kg | 1000.00 | 149.97 | 149970.00 |
| | | | | | Total | 149970.00 |
| Item- 28 | 10.26-Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 10.26.3 | G.I. pipes | Kg | 1190.00 | 180.89 | 215259.10 |
| | | | | | Total | 215259.10 |
| Item- 29 | 11.19-Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 11.19.3 | Dark shade pigment using ordinary cement | Sqm | 39.06 | 1338.44 | 52279.47 |
| | | | | | Total | 52279.47 |
| Item- 30 | 13.1-12 mm cement plaster of mix - | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 13.1.2 | 1:6 (1cement: 6coarse sand) | Sqm | 39.00 | 291.07 | 11351.73 |
| | | | | | Total | 11351.73 |
| Item- 31 | 13.61-Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 13.61.1 | Two or more coats on new work | Sqm | 54.18 | 139.15 | 7539.15 |
| | | | | | Total | 7539.15 |
| Item- 32 | 13.98-Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 13.98.1 | One or more coats on old work | Sqm | 160.68 | 96.91 | 15571.50 |
| | | | | | Total | 15571.50 |
| Item- 35 | 16.48-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. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 16.48.1 | New work (Two or more coats) | Sqm | 100.00 | 247.23 | 24723.00 |
| | | | | | Total | 24723.00 |
| Schedule | Schedule E-SCHEDULE 'E' (Non-Schedule Items) | | | | | |
| Item- 40 | NS4-Manufacturing, Supplying and fixing of POT / POT-PTFE bearings as per approved drawings for the following spans at site including fitting and fixing in position true to line and level with all contractor's materials, labour, tools and plants, loading, unloading and stacking at site as per specification/drawing or as directed by engineer as a complete job.- The drawing upto last alteration / revision/amendment shall be followed. Cast steel of grade 280 - 520 W or 340 - 570 W of IS 1030 shall be used. Each set of bearing shall include 10 nos of bearings (2 POT bearings and 8 POT - PTFE bearings) and all bolts and all other components connected with bearings as shown in respective drawings. The supply of POT / POT-PTFE bearing shall include all materials shown in the drawings. The supply also includes supply of all holding down bolts to fix the bearings at the bottom on pedestal and all bolts to fix the bearings to the bottom of girder. 75% payment shall be made after supply of each set at site on submission of indemnity bond and balance 25% shall be made after fixing of bearings. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | NS4(a) | For 35.56 m composite girder | Set | 1.00 | 930757.63 | 930757.63 |
| 2 | NS4(b) | For varies from 29.130 to 33.250m composite girder. | Set | 1.00 | 766018.71 | 766018.71 |
| | | | | | Total | 1696776.34 |

4. ELIGIBILITY CONDITIONS

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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

Special Financial Criteria

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

Special Technical Criteria

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------------------|-----------------------|-----------------|---------------------|
| 1 | As Per Tender 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.

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| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------------------|-----------------------|-----------------|---------------------|
| 1 | As Per Tender Document. | No | No | Not Allowed |

Commercial-Compliance

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | As Per Tender Document. | Yes | Yes | Allowed (Mandatory) |
| 2 | 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) |

General Instructions

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------------------|-----------------------|-----------------|---------------------|
| 1 | As Per Tender Document. | No | No | Not Allowed |

Special Conditions

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------------------|-----------------------|-----------------|---------------------|
| 1 | As Per Tender Document. | No | No | Not Allowed |

Technical-Compliances

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------------------|-----------------------|-----------------|---------------------|
| 1 | As Per Tender Document. | Yes | Yes | Allowed (Mandatory) |

Undertakings

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------------------|-----------------------|-----------------|---------------------|
| 1 | As Per Tender Document. | No | No | Not Allowed |

6. Documents attached with tender

**EDFC FIELD UNIT-TUNDLA-CIVIL/EDFC
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| S.No. | Document Name | Document Description |
|--------------|-------------------------|-----------------------------|
| 1 | TechnicalBidOfROB94.pdf | Technical Bid |
| 2 | FinancialBidofROB94.pdf | Financial Bid |

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: MANUJ KUMAR SARASWAT

Designation : PM-Engg/TDL