

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 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_94R3 Closing Date/Time 22/11/2022 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	22/11/2022 15:00	Date Time Of Uploading Tender	01/11/2022 15:42
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	08/11/2022	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		

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

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	

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

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	

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

	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	

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

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

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

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

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

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					

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

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

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

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

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

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

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.

Check Lst

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
TENDER DOCUMENT**

Tender No: EDFC_CGM_TDL_ROB_94R3

Closing Date/Time: 22/11/2022 15:00

S.No.	Document Name	Document Description
1	TECHNICALBIDROB94.pdf	Technical Bid 94
2	FinancialBidofROB94.pdf	FINANCIAL BID ROB 94

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