



Tender No.: JP-EN-REJN-KMBHS-MJB-12

Name of Work:- Construction of Railway Bridges in connection with providing Connectivity between chainage 5.2 km (on DFCCIL New Rewari - Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/Jaipur.

Two Packet

OPEN E-TENDER

**Last date and time of submission of
Tender 19.06.2023 15:00 Hrs.**

**TENDER DOCUMENT
(NOT TRANSFERABLE)**

Financial Bid (Packet-B)

May-2023

Employer:

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA
LIMITED**

(A GOVERNMENT OF INDIA ENTERPRISE)

UNDER MINISTRY OF RAILWAYS

GENERAL INFORMATION/DATA SHEET

1	E-Tender No.	JP-EN-REJN-KMBHS-MJB-12
2	Name of Work	Construction of Railway Bridges in connection with providing Connectivity between chainage 5.2 km (on DFCCIL New Rewari - Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/Jaipur.
3	Estimated Cost of Work	Rs. 83,26,71,039.77 (Rs. EightyThree Crore Twenty Six Lakh seventy one Thousand Thirty Nine and Paise Seventy Seven) (Inclusive GST).
4	Completion Period	12 (Twelve) months.
5	Tender Fee	Rs. 29,500/- (Rs. 25,000/- (Rs. Twenty Five Thousand only) + 18 % GST) to be paid online through payment gateway provided at www.ireps.gov.in
6	Earnest Money (Bid Security)	Rs 43,13,400/- to be paid online through payment gateway provided at www.ireps.gov.in
7	Pre-Bid Meeting	On 31.05.2023 at 11.00 Hrs At office of Employer: the Chief General Manager, Dedicated Freight Corridor Corporation of India Ltd.C-16, Khushi Vihar, Patrakar Colony, Mansarovar, Jaipur – 302020, India.
8	Download bid documents up to	15:00 Hrs. of 19.06.2023 on www.ireps.gov.in
9	Last date & time of online receipt of bid	15:00 Hrs. of 19.06.2023 on www.ireps.gov.in
10	Date and time of Online opening of bid	15.30 Hrs. of 19.06.2023 on www.ireps.gov.in
11	Validity of offer	90 Days from the date of opening of tender.
12	Security Deposit	5% of Contract value
13	Defect Liability Period	12 Months
14	Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 21 (twenty-one) days from the date of issue of Letter of Acceptance (LOA), amounting to five percent (5%) of the contract value in the form as given in clause 16.4 of GCC.
15	Address of Communication	Office of the Chief General Manager, Dedicated Freight Corridor Corporation of India Ltd.C-16, Khushi Vihar, Patrakar Colony, Mansarovar, Jaipur – 302020. Tel: 0141-7196245, 0141-7196241,Website: www.dfccil.com
16	Help Desk for E-Tendering	For any clarification, help and registration for E-Tendering &

		matter relating to Digital Signature, contact at Help desk of www.ireps.gov.in and phone No.-011-23761525
17	Availability of Tender Documents	The Tender documents can be downloaded from www.ireps.gov.in Tenderer who wishes to view free Notification and Tender Documents can visit www.ireps.gov.in DFCCIL may issue Addendum (s)/Corrigendum (s) to the Tender document, if any, which shall be issued at least 15 days in advance of date of opening of tender and placed on the website www.ireps.gov.in only.

SUMMARY OF PRICES

Name of work: Construction of Railway Bridges in connection with providing Connectivity between chainage 5.2 km (on DFCCIL New Rewari - Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/Jaipur.

Sl. No.	Description of works	Amount (Rs.) (Including GST)
1	2	3
1.	Construction of Railway Bridges in connection with providing Connectivity between chainage 5.2 km (on DFCCIL New Rewari - Kishangarh Balawas Connecting line) to IR Kumbhawas as per Schedule "A"	Rs. 83,26,71,039.77

Explanatory Notes for BOQ:

- (i) All IR USSOR 2019 items contain item nos., if any discrepancy is found in nomenclature, rates, units etc. the description as given in USSOR 2019 will prevail.
- (ii) The rates shall also be inclusive of all taxes (**Including 18% GST**) legally leviable and quoted any other taxes, octroi license fee and royalty charges etc. if any.
- (iii) **Contractor should bear the fact in mind while quoting the rates that GST will be paid by Contractor as per prevailing rate for further deposition of GST to State Govt. and/or Central Govt.** as applicable. Documentary evidence of deposition of GST will be produced by contractor.
- (iv) The contractor should adhere to **Anti Profiteering Provisions** as per section 171 of the CGST Act. In case due to change in the rates of GST / Change in law, the contractor gets any credits / benefits, the same shall be passed on to DFCCIL by way of reduction in prices.
- (v) The structural drawings for the Construction of 04 nos. Railway Bridges in connection with providing Connectivity between chainage 5.2 km (on DFCCIL New Rewari - Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/JP are attached. These structural drawings are indicative only and are not to be used for execution purpose.

The successful bidder to whom the work is awarded shall do the Geotechnical investigation at each abutment & pier of every bridge and get the foundation & substructure designed from reputed structural design consultant and get the structural design & drawings proof checked from IIT. The Payment for proof checking by IIT shall be made by DFCCIL.

SCHEDULE OF PRICES & TOTAL PRICES
Tender Schedule

Name of work:- Construction of Railway Bridges in connection with providing Connectivity between chainage 5.2 km (on DFCCIL New Rewari - Kishangarh Balawas Connecting line) to IR Kumbhawas station under Jurisdiction of CGM/Jaipur.

Schedule - A (USSOR-2019 & Non-Schedule)								
S.N	Item	Description	Unit	Rate Inc 18% GST	Total		Escalati on (%)	Amount
					Qty.	Amount		
1	12020	<p>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 SQ2, 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.</p> <p>Note: Payment under this item shall be made only upto the thickness as approved by Engineer-in-Charge. Any additional thickness executed shall be paid under the item of Earthwork in filling in embankment for Soil Quality Class SQ1.</p>	Cum	312.44	878.40	274447.3	17.04	321213.12
2	22010	<p>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.</p>						

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		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						
	22011	All kinds of soils	Cum	183.94	3859.67	709947.7	17.04	830922.79
3	22030	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 :						
	22032	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	2579.73	172.65	445390.38	17.04	521284.9
4	22040	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of M35 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	Cum	2604.77	2071.82	5396614.58	17.04	6316197.7
	22050	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						
5	22051	Abutment & Pier	Cum	2865.24	539.77	1546570.59	17.04	1810106.22
6	22052	Wing wall and Return wall	Cum	2865.24	2459.64	7047458.91	17.04	8248345.91
7	22053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc	Cum	2995.48	84.78	253956.79	17.04	297231.03
8	22054	Approach slab at formation level, Dirt wall/ ballast wall at formation level	Cum	2734.99	237.85	650517.37	17.04	761365.53

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	22090	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						
9	22092	1200mm diameter	Metre	9485.05	2214	20999900.7	17.04	24578283.78
	22110	Extra for chiselling in addition to boring of piles, if chiselling is resorted to in hard rock or big stone boulders larger than 30cm depth by any means, i.e. by chisel or manual chisel and hammer method						
10	22111	1200mm diameter pile	Metre	4429.85	2214	9807687.9	17.04	11478917.92
	22120	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						
11	22121	Initial load test upto 50 ton capacity pile	Each	57230.28	96.00	5494106.88	17.04	6430302.69
12	22125	Routine Load Test upto 50 ton capacity pile	Each	21637.55	192.00	4154409.6	17.04	4862321
13	25020	Providing and applying two coats of coal tar or bitumen conforming to IS:3117– latest version on the top and sides of RCC box/slabs @ 1.70 kg/sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer	Sqm	172.40	5,622.03	969237.97	17.04	1134396.12
	25030	centering and shuttering including strutting, propping etc. and removal of form for :						
14	25031	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	Sqm	635.08	7888.18	5009625.35	17.04	5863265.51

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15	25032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. upto 5m above ground level	Sqm	825.88	6,494.30	5363512.48	17.04	6277455.01
	25060	Supply and using Cement at Worksite						
16	25061	Supply of cement of OPC 43 grade	MT	6963.49	3450.77	24029402.39	17.04	28124012.56
	25070	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete						
17	25072	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	74.12	557,892.67	41351004.70	17.04	48397215.9
	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						
18	31102	For 80mm expansion	Metre	8897.57	78.5	698459.24	17.04	817476.69
19	31130	Providing Flood Level Gauges on abutments and piers, made by 20mm thick 1:4 cement plaster for a width of not less than 300mm, duly engraving markings & figures in metres, divided into 10 parts commencing from under-side of girders towards bed, painting markings & figures with black enamel paint in three coats on white background including painting HFL Mark in white by side of gauge with year of occurrence with all Contractor's materials, labour, tools, scaffolding and supports, lead & lifts, curing etc. complete as per approved drawing and as directed by the Engineer in- charge excluding cost of cement which shall be paid extra	Sqm	509.84	725.18	369725.77	17.04	432727.04

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	41020	Supplying, fabrication, assembling of all types of steel Composite 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 on sub-structure including provision of stud bolts / shear connectors, 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. Rate 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%						
20	41021	Composite steel girder of span length up to 36.0m	MT	113313.83	1902.31	215558031.95	17.04	252289120.59
21	41022	Composite steel girder of span length above 36.0m	MT	120815.83	1,685.40	203622999.88	17.04	238320359.06
	41260	Painting cleaned bridge plate/composite girders including all scaffolding, shuttering and strutting along with provision of Jhoola / hanging scaffolding ladders etc. where required						
22	41264	With two coats of epoxy paint conforming to RDSO spec M&C/PCN/123-11 Note: DFT of each coat shall be 60 microns.	Sqm	207.28	6,494.30	1346138.5	17.04	1575520.5

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23	'04139 0	Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks etc.for Steel Structures other than bridge girders, using RSJ, tees, angles and channels/flats, plates, gussets, round or square bars, cleats, bolts etc., with contractors own steel including cutting, bending, straightening, drilling, riveting, hoisting, fixing, erecting, welding, bolting etc., with Providing stiffeners wherever required as per approved drawing including applying a priming coat of a approved steel primer with all contractor's materials, labour, tools & plants, lead & lift including crossing of tracks if required etc., complete as per specification and as directed by Engineer-in-charge.	MT	80457.7 6	1,531. 05	12318485 3.45	17.04	14417555 2.48
24	51010	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 35 kg each with voids filled with spalls complete as per drawing and Technical Specification	Cum	1710.07	1686.6 1	2884221.1 6	17.04	3375692.4 5
25	51020	Laying of boulder apron laid in wire crates of approved size including overlaps at joints, laid with stone boulders, all loose ends to be tied with 4mm galvanised steel wire. Payment for boulders & wire crates to be done extra	Cum	844.54	1686.6 1	1424409.6 1	17.04	1667129.0 1
26	51030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations	Cum	1057.21	1686.6 1	1783100.9 6	17.04	2086941.3 6
27	51070	Providing and laying Pitching with Stone Boulders, weighing not less than 35kg each with voids filled with cement sand mortar 1:4 on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical Specifications (filter media to be paid separately under the relevant item). Rate is excluding cost of cement which shall be paid extra under relevant item.	Cum	3843.79	2910.3 4	11186735. 79	17.04	13092955. 57
28	51080	providing and laying filter material as per RDSO specification underneath pitching in slopes complete as per drawing and technical specification	Cum	2917.61	727.59	2122823.8 6	17.04	2484553.0 5
29	52010	Providing and laying flooring with rubble stone, laid over 15cm thick CC 1:2:4 and the voids filled with CC 1:2:4 complete with the joints pointed with 1:2 Cement Sand mortar as per drawing and Technical specifications. Payment for cement to be done separately. Voids in the rubble stone to be taken as 35% of the gross volume of the stone layer. (Base concrete to be paid extra)	Cum	2572.80	214.60	552122.88	17.04	646204.62

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30	52150	Providing weep holes by making suitable opening or drilling in existing Brick Masonry / Plain / Reinforced Concrete abutment, wing wall/return wall with 110 mm dia UPVC pipe (working pressure 4kg/sqcm) extending through the full width of the structure complete and repairing the same with cement mortar 1:2 (1 cement : 2 coarse sand). Rate is excluding the cost of cement which shall be paid extra.	Metre	532.27	3713.50	1976584.65	17.04	2313394.67
31	52170	Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per IS:1498 (latest) in required profile behind boulder filling of abutments, wing walls / return walls etc. above bed level with all labour and material complete job as per drawing and technical specification of RDSO Guidelines.	Cum	2671.77	3519.53	9403374.67	17.04	11005709.71
32	201040	Manufacture & supply of Elastomeric Pads 25mm / 30mm thick as per RDSO drawing No. B/1636/I/R2 to suit Insulated steel channel sleepers with all contractor's material, lead, lift, labour, tools, plant and transportation etc. complete as per approved drawings and as instructed by Engineer in-charge {One set of sleeper constitute two Nos.}	Set	428.52	24	10284.48	17.04	12036.96
33	NS -1	Design, manufacturing, supplying and fixing in position elastomeric bearing true to line and level conforming to IS:3400, IS:226, BS-5400 under prestressed concrete girders/ Steel Girders, for Pre-cast as well as cast-in-situ girders as per approved drawing. The rate shall include cost of load test of one no. bearing from Railway approved firms and all fixing materials, equipments, machineries, labour, taxes, loading, unloading, leading, lifting etc. complete. Rates include getting the drawing approved from Railway and cost of inspection during manufacturing from railway approved organization.	MT	164167.50	8	1313340	0	1313340
34	NS-2	Providing Diesel/Petrol driven Commercial field vehicles i.e. Scorpio/ Xylo (with Power Steering & Power Window) for use in the jurisdiction of Chief General Manager/Jaipur of WDFC up to 2500 Km and 312 hours per month. The rate includes license fee, permit, driver's wages, Fuel, repair and maintenance of vehicle etc. with exceptions as mentioned in conditions.	Month	67457.36	12.00	809488.32	0	809488.32
Total Amount (Including GST 18%)								832671039.77

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