



TENDER NO. TDL/EN/BHU-LOOP-LINE-CONNECTION/01

FOR

CONSTRUCTION OF FORMATION WORK & CIVIL STRUCTURE FOR CONNECTION OF UP LOOP LINE OF BHAUPUR (IR) STATION TO NEWLY CONSTRUCTED DFC LINE AT BHAUPUR STATION IN BETWEEN BHAUPUR STATION OF NCR AND NEW BHAUPUR STATION OF EDFC.

**E-TENDER DOCUMENT
FINANCIAL BID
(PACKET-B)
SEPTEMBER - 2019**

**Employer:
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Under
MINISTRY OF RAILWAYS**

AGRA OFFICE:-

Chief General Manager/Tundla/DFCCIL,
3/20, 3rd Floor, KPS Tower, Mayur Complex, Nagla Padi,
Near Tulsi Cinema, NH-02,
Agra -282002

CORPORATE OFFICE:-

DFCCIL, 5th Floor, Pragati Maidan Metro Station Building Complex,
New Delhi-110001.

GENERAL INFORMATION/DATA SHEET

TENDER NOTICE NO	TDL/EN/BHU-LOOP-LINE-CONNECTION/01
Name of the work	CONSTRUCTION OF FORMATION WORK & CIVIL STRUCTURE FOR CONNECTION OF UP LOOP LINE OF BHAUPUR (IR) STATION TO NEWLY CONSTRUCTED DFC LINE AT BHAUPUR STATION IN BETWEEN BHAUPUR STATION OF NCR AND NEW BHAUPUR STATION OF EDFC.
(a) Tender Value	Rs. 214873535.3/-
(b) Completion Period	06 months
(c) Earnest Money	Rs. 3223401/-
(d) Date and Time of Issue of Tender	From 26.09.2019 at 14.00 Hrs
(e) Last date and Time of submission of Tender	16.10.2019 upto 15.00 hrs
(f) Date and Time of Opening of Tender (Technical bid -Packet A)	On 16.10.2019 at 15.30 hrs
(g) Validity of offer	120 days
(h) Retention Money / Security Deposit	5 % of Contract Value
(i) Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 30(thirty) days from the date of issue of Letter Of Acceptance (LOA), amounting to 5% of the contract value in the form as give in clause 16.4 of GCC

SUMMARY OF PRICES

Name of work:- Construction of formation work & Civil Structure for connection of UP loop line of Bhaupur (IR) station to newly constructed DFC line at New Bhaupur station, in between Bhaupur station of NCR and New Bhaupur station of EDFC.

Sl. No.	Description of works	Cost as per USSOR 2010 of NC Rly	DFCCIL updated %	DFCCIL updated cost in Rs	Rates to be quoted in figures & words (Clearly mention above / below / at par on updated DFCCIL Estimated cost given in column 5)
1	2	3	4	5	6
1.	Execution of all works as per Schedule "A"- Earthwork (items as per USSOR 2010 of NC Rly)	27296352.34	42.516%	38901669.5 % age (in figures) (In words)
2.	Execution of all works as per Schedule "B"- Structure (items as per USSOR 2010 of NC Rly)	31353668.29	42.516%	44683993.9 % age (in figures) (In words)
3.	Execution of all works as per Schedule "C" (items as per USSOR 2010 of NC Rly for supply of Cement)	20930000.00	42.516%	29828598.8 % age (in figures) (In words)

4.	Execution of all works as per Schedule"D" (Items as per USSOR 2010 of NC Rly for supply of Steel Reinforcement including straightening, cutting etc.)	50010804.70	42.516%	71273398.43 % age (in figures) (In words)
5.	Execution of all works as per Schedule"E"(NS Items)	30185874.62	-	30185874.62 % age (in figures) (In words)
	Grand Total			214873535.3	

Notes:

- (i) The above prices are inclusive of all taxes, duties including GST etc.
- (ii) The tenderer should quote single percentage above/ at par / below for each schedule.
- (iii) If the uniform percentage quoted by the Tenderer does not clearly indicate whether the rates are above / at par / below the estimated rates then through sign convention it will be considered to be on plus side and evaluated accordingly.
- (iv) Rate of item payable to contractor shall be as per following example:-

For Schedule A,B,C and D (Updating factor is 1.42516, since 42.516% is above the rates of USSOR2010 of NC Railway), if the rate of any item of USSOR - 2010 of NC Railway / Schedule A is "X" and

- (a) If percentage quoted by the contractor is 5 % above (+5%), Rate payable to contractor = $(X) \times 1.42516 \times 1.05$
- (b) If percentage quoted by the contractor is 5 % below (-5%), Rate payable to contractor = $(X) \times 1.42516 \times 0.95$
- (c) If percentage quoted by the contractor is at par, Rate payable to

contractor = (X) x 1.42516 x 1.0

- (d) In case of NS items i.e. Schedule E, Updation factor shall be 1.

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SCHEDULE -1

SCHEDULE OF PRICES & TOTAL PRICES

Sl. No.	Item no. of NCR USSOR -2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
SCHEDULE 'A' –EARTWORK (ITEMS AS PER USSOR 2010 OF NC RLY)						
1	013120	Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, 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. taxes, octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract.	Cum.	121436.71	208.30	25295266.69
2	013130	Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&P consumable material and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects"	Cum.	121436.71	14.21	1725615.65

Signature of tenderer (s)
with seal

Sl. No.	Item no. of NCR USSOR -2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
		issued by RDSO, Lucknow.				
3	014110	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 50 x50x6mm, 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 2.0 M along the track. 12 mm 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.	Metre	2600.0	105.95	275470.00
		TOTAL COST OF SCHEDULE 'A' ITEMS				27296352.34

Sl. No.	Item no. of NCR USSOR -2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
SCHEDULE 'B' -STRUCTURE(ITEMS AS PER USSOR 2010 OF NC RLY)						
1	012050	Supplying and filling sand in plinth and under floors including watering, ramming, consolidating and dressing complete.	Cum.	353.26	610.26	215580.44
2	031013	Providing and laying in position cement concrete of 1: 4:8(1 cement : 4 sand : 8 graded stone aggregate 40mm nominal size) proportion excluding cost of cement, centering	Cum.	347.68	1867.62	649337.85

		and shuttering - All works upto Plinth level.				
3	031020	Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering.				
4	031023	1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size)	Cum.	297.0	1883.4	559369.80
5	081030	Structural steel work welded in built up sections, trusses and framed work, girders, staging, racks etc including cutting, bending, straightening, hoisting, fixing in position including applying a priming coat of a approved steel primer complete- upto 6m height above GL.				
6	081031	In RSJ, tees, angles and channels	Kg	10000.0	69.24	692400.0
7	081032	In flats, plates, round or square bars	Kg	7000.0	68.0	476000.0
8		Note for Item 081030 : Purlins and wind bracings shall be paid separately under item 81010.				
9	121030	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coats applied @ 0.90ltr/ 10sqm over an under coat of primer applied @ 0.80ltr/ 10sqm of approved brand or manufacture.	Sqm.	350.0	68.84	24094.0
10	154010	Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete.	Metre	1110.28	221.56	245993.63
11	192010	Earth work 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. incl. all lift, disposal of surplus soil upto a lead of 300 M, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge.				
11	192011	All kinds of soils	Cum.	3712.00	165.50	614336.66
12	194010	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast - in Situ) In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component using 20 mm graded crushed stone aggregate and coarse sand of approved quality of cast-in-situ RCC box of size upto 5 M (bigger inside dimension) including finishing, Admixtures in recommended proportions (as per IS 9103), if approved in Mix design, to accelerate, retard setting of concrete, improve workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra	Cum.	6016.62	1694.28	10193843.58
13	194020	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Mass Cement Concrete M20 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, Including the cost of centring, shuttering and finishing complete as per drawings and technical specifications as directed by Engineer. Payment for cement & reinforcement shall be paid extra.	Cum.	1153.96	1694.28	1955131.35
14	195020	Providing and applying two coats of coal tar or bitumen conforming to IS 3117 - 1965 on the top and sides of	Sqm.	1890.73	112.62	212934.46

		RCC box/slabs @ 1.70 Kgs / Sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer.				
15	195030	Centring and shuttering including strutting, propping etc. and removal of form for :				
16	195038	In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component	Sqm.	10875.0	214.70	2334862.5
17	221050	Providing and laying Pitching with stone boulders weighing not less than 35 kg each with the voids filled with spalls 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)	Cum.	75.97	887.05	67389.18
18	222180	Providing and laying of filter media consisting of granular material of GW, GP, SW groups as per IS 1498-1970 in required profile behind boulder filling of abutments, wing walls/ return wall etc. above bed level with all labour and material complete job as per drawing and technical specification of RDSO guidelines.	Cum.	7737.12	1505.65	11649394.73
19	222290	Providing Boulder backing behind wing wall, return wall, retaining wall with hand packed boulders & cobbles with smaller size boulders toward the back including all lead, lift, labour & other incidental charges as complete work in all respect. Payment for boulder/cobbles will be done extra.	Cum.	2249.09	140.30	315547.32
20	222300	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours.	HP Hour	1200.0	15.33	18396.0
21	222320	Supplying & fixing of Erosion Control Geomat (for surfacial erosion control) consisting of 2 layers of	Sqm.	465.35	203.02	94475.36

		polymeric netting, having aperture size of 20mm x 20mm and a middle layer of coir as per Specifications. Max. width of rolls/each composite mat shall be 5m. Work includes dressing of slopes to proper profile & removing loose rubbles, muck & leading to the point as directed by engineer-in-charge; supply & spreading of good earth/soil material on slope/berm portion etc. to proper profile for laying of Geomat anchoring in top anchor trench; seaming of adjacent panels of Geomat with HDPE Twine; fabrication & fixing of U-pin on slope/berms including top of cutting for anchoring of Geomat as per approved scheme and providing of grass sods and placing over Geomat so as to completely cover it, including watering for 2 weeks with all labour, tools & materials alongwith lead & lift etc. complete.				
22	252390	Stone boulders weighing minimum 35 Kg each	Cum.	2249.09	460.0	1034581.4
		TOTAL COST OF SCHEDULE 'B' ITEMS				73029356.99

Sl. No.	Item no. of NCR USSOR -2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
SCHEDULE 'C' –CEMENT SUPPLY (ITEMS AS PER USSOR 2010 OF NC RLY)						
		Supply and using cement at worksite :				
1	033061	OPC 43 Grade	Tonne	3500.0	5980.0	20930000.0
		TOTAL COST OF SCHEDULE 'C' ITEMS				20930000.0

Sl. No.	Item no. of NCR USSOR -2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
SCHEDULE 'D' –REINFORCEMENT SUPPLY (ITEMS AS PER USSOR 2010 OF NC RLY)						
		Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
1	045016	Thermo-Mechanically Treated bars	Kg	920162.0	54.35	50010804.7
		TOTAL COSTOF SCHEDULE 'D' ITEMS				50010804.7

Sl. No.	Item no.	Description of items	Unit	Qty.	Rate (Rs)	Amount (Rs)
SCHEDULE 'E' –NON SCHEDULE ITEMS						
01	NS-1	Providing and laying blanketing materials of specification as per RDSO guidelines for Design/construction of formation on indian Railway track, using well graded granular material having cu>7, Cc between 1 & 3, fines (passing 75 microns) between 3% to 10%, minimum soaked CBR value of 25 and compacted at 100% of MDD in layers of maximum 30 cum thickness in loose state using graders and compaction using vibratory compactors, top and side dressing to provide final formation as per designed profile. the rate shall not include compaction, which shall be paid seperately. NOTE : 1) If natuarally available material do not meet the laid down	Cum.	19486.00	1527.77	29770138.44

Sl. No.	Item no.	Description of items	Unit	Qty.	Rate (Rs)	Amount (Rs)
		specification, the blanket materials has to be produce by mechanical process using mechanical Crushing or mechanical blending method or combination of this two methods as given in the Annexure -C of RDSO guideline and specifications for design of formation for Heavy Axle Load-2009. The quoted rates are deemed to include the production of Materials by mechanical process.				
02	NS-2	Mechanical compaction of Earth and Blanket materials in layers of about 30CM. (or more or less) in loose state using vibratory compactor (of adequate capacity) so as to achieve compaction as per RDSO Guidelines and specification for design of Formation for Heavy Axle Load-Nov-2009. Minimum EV2 criteria as mentioned in the Guidelines is not applicable. Note:- The payment for Compaction shall be based on the computed quantity of Earthwork/Blanket workfrom the cross sections. The payment however, will be restricted only to the approved design profiles furnished by the Engineer or the actual quantity executed whichever is less.	Cum.	19486.00	14.13	275337.29
03	NS-3	Providing and fixing of shalitek board for Expension joint as per drawing and technical specifications.	Sqm.	207.07	678.0	140398.88
		TOTAL COST OF SCHEDULE 'E' ITEMS				30185874.62

Explanatory Notes for BOQ:

- (i) Contractor shall quote rates of shuttering and curing for all heights.
- (ii) The rates of reinforcement item mentioned in the above schedule include placing of reinforcement under running traffic conditions.
- (iii) All NCR USSOR items contain item nos., if any discrepancy is found in nomenclature, schedule nomenclature will prevail.
- (iv) Tenderer must quote their rates for supply and erection of fabricated girders with their own material including loading, transportation and unloading at site. DFCCIL shall not provide any assistance for procurement of raw material for manufacturing the girders tendered for.
- (v) The rates shall also be inclusive of all taxes legally leviable and / or any other taxes, license fee and royalty charges etc. if any.
- (vi) The above quantity is approximate:-The DFCCIL reserve the right to increase / decrease the same.
- (vii) The contractor has to submit launching scheme and detailed drawing of each component of the Railway safety and nothing extra shall be paid for this activity.
- (viii) Contractor should check the proposed work location/ site physically to examine the site conditions and quantum of work, before quoting the rates.