



Tender No. TDL/EN/BHU-KRJ-LXING/EC/RUB1/103

For

Construction of 15 nos. RCC approaches in LOT 103, Galvalume Sheet roofing shed on Tubular members on DFCCIL side of RUBs/BBs/LHS i/c modification/relocation of S&T utilities coming in the alignment of RUB approaches, between Km 1266 to 1367+900 i. e. between Bhaupur & Khurja section of NC Railway.

**E-TENDER DOCUMENT
FINANCIAL BID
(PACKET-B)
June-2017**

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

AGRA OFFICE:-

Chief Project 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-KRJ-LXING/EC/RUB1/103 dated 13.07.2017
Name of the work	Construction of 15 nos. RCC approaches in LOT 103, Galvalume Sheet roofing shed on Tubular members on DFCCIL side of RUBs/BBs/LHS i/c modification/relocation of S&T utilities coming in the alignment of RUB approaches, between Km 1266 to 1367+900 i. e. between Bhaupur & Khurja section of NC Railway.
(a) Tender Value	Rs. 38,96,92,898/-
(b) Completion Period	9 months
(c) Earnest Money	Rs 58,45,394/-
(d) Date and Time of Issue of Tender	From Date 14.07.2017 on E-Tendering website(www.tenderwizard.com/DFCCIL)
(e) Last date and Time of submission of Tender	On or before date 18.08.2017 and time upto 15:00 hrs
(f) Date and Time of Opening of Tender (Technical bids -Packet A)	On date 18.08.2017 and time 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 submit 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 15 nos. RCC approaches in LOT 103, Galvalume Sheet roofing shed on Tubular members on DFCCIL side of RUBs/BBs/LHS i/c modification/relocation of S&T utilities coming in the alignment of RUB approaches, between Km 1266 to 1367+900 i. e. between Bhaupur & Khurja section of NC Railway.

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 Rate / cost given in column 4/5)
1	2	3	4	5	6
1.	Execution of all works as per Schedule "A" (items as per USSOR 2010 of NC Rly)	256162474	+33.95%	387856498 % age (in figures) (In words)
2.	Execution of all S&T works as per Schedule "B"	--	--	1836400 % age (in figures) (In words)
	Grand Total			389692898	

Notes:

- 1) The above prices are inclusive of all taxes, duties including Excise duty, Sales Tax, Octroi, Local levies, Works Contract Tax or GST as prevailing etc.
- 2) The tenderer should quote single percentage above / par / below for each schedule.
- 3) 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.
- 4) If the contractor different percentage (%) above /below against each items of any schedule (i.e. A & B) then his offer will be summarily rejected.

SCHEDULE -1
SCHEDULE OF PRICES & TOTAL PRICES

Sl. No.	Item no. of NCR USSOR - 2010	Description of items	Unit	DFCCI L's Rate (Rs)	Qty.	Amount (Rs)
SCHEDULE 'A' - (ITEMS AS PER USSOR 2010 OF NC RLY FOR BRIDGE CHAPTERS)						
1	012050	Supplying and filling sand in plinth and under floors including watering, ramming, consolidating and dressing complete	cum	922.31	1777	1638944.87
2	033060	Supply and using cement at worksite :				
3	033061	OPC 43 grade	Tonne	9037.84	7283	65822588.72
4	045010	Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
5	045016	Thermo-Mechanically Treated bars	Kg	78.85	1375029	108421036.65
6	48030	Supplying cement / epoxy grout and sealing of cracks by injection process through nipples with pressure of at least 1.4 kg/sqm till the grout comes out through adjacent nipples, complete as per specification				
7	048032	Using epoxy grout as per manufacturer's specification	kg.	438.14	750.00	328605.00

Sl. No.	Item no. of NCR USSOR - 2010	Description of items	Unit	DFCCI L's Rate (Rs)	Qty.	Amount (Rs)
8	081030	Structural steel work welded in built up sections, trusses and framed work, girders, stagings, racks, etc including cutting, bending, straightening, hoisting, fixing in position, including applying a priming coat of approved steel primer, complete - upto 6m height above GL				
9	081031	In RSJ, tees, angles and channels	Kg	104.65	33000	3453450.00
10	081140	Supplying and fixing lewis/ holding down bolts of approved design with nuts and washers complete(for height gauge and tubular trusses)	Kg	92.39	15973	1475745.47
11	081290	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. Complete. 40% of rate payment shall be made after steel material required for fabrication (as per drawing) is received at				

Sl. No.	Item no. of NCR USSOR - 2010	Description of items	Unit	DFCCI L's Rate (Rs)	Qty.	Amount (Rs)
		<p>site.</p> <p>(ii) 15% of rate payment shall be made on acceptance of fabricated components at site.</p> <p>(iii) 20% of rate payment shall be made after erection & launching</p> <p>(iv) 25% of rate payment shall be made after final approval of DFCCIL and successful completion of all works (RUB wise) included in this item including metallising and finishing complete.</p>				
12	081291	Hot finished welded type tubes	Kg	145.00	493350	71535750.00
13	109200	Providing and fixing permanently colour coated trapezoidal profiled sheet of depth 28-30mm at 195-205mm pitch distance with precisely engineered "Rib & Flute" design. Profiled sheets shall be min. 0.5mm TCT/0.45mm BMT high tensile zinc aluminium alloy coated zinalume / galvalume steel sheet (550 mpa yield strength) having a coating of mass of 150 gsm zinc-aluminium coating AZ-150 total on both sides as per, AS 1397:1993	Sqm	1173.35	17160	20134686.00

Sl. No.	Item no. of NCR USSOR - 2010	Description of items	Unit	DFCCI L's Rate (Rs)	Qty.	Amount (Rs)
		finished with 20 microns approved colour coating of Silicon Modified Polyester (SMP) / Super Polyester paint coat on exposed surface over a primer coat of 5 microns and a back coat of 5 microns on reverse side over a 5 microns primer coat. There shall be 2 small ribs/square flutes between profiles for providing additional strength. The sheet to be fixed over the purlins with hexagonal head self drilling suitable fasteners with neoprene / EPDM washer on crests of the sheet				
14	109260	Providing & fixing of coloured galvalume plain sheet flashings at ridges / apex junctions of roofing cladding, cover / corner / barge pieces etc. in required shape, colour duly fixed with stitching screws (with EPDM washers etc. as per site requirement)				
15	109261	Upto 600 mm width (girth)	R metre	725.05	2145	1555232.25
16	101090	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50mm +/- 5% total coated				

Sl. No.	Item no. of NCR USSOR - 2010	Description of items	Unit	DFCCI L's Rate (Rs)	Qty.	Amount (Rs)
		thickness (TCT) thick Zinc coating 120 gsm as per IS:277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/self tapping screws or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :				
17	101096	Gutter(600mm over all girth)	R metre	1151.48	4290	4939849.20
18	121050	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				
19	121051	Two or more coats on new work	Sqm	68.46	16624	1138079.04
20	142010	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes including bends etc with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement: 2fine sand) including testing of joints etc. complete upto 800mm dia.				
21	142014	300mm dia. R.C.C. pipe	metre	748.40	75	56130.00

Sl. No.	Item no. of NCR USSOR - 2010	Description of items	Unit	DFCCI L's Rate (Rs)	Qty.	Amount (Rs)
22	171520	Drilling of bore well for specified depth in all types of soil and rock mechanically with all contractor's tools, plants, material and labour up to 75 meters				
23	171523	For 250 mm dia	Metre	807.06	1500	1210590.00
24	171530	Providing supplying, lowering and fixing in bore G.I.B Class perforated casing pipe 6 mm thickness up to specified depth below ground level with all contractor's tools, plants, material and labour etc. Complete				
25	171532	150 mm internal pipe	Metre	1852.32	750	1389240.00
26	171540	Providing supplying, lowering and fixing in bore unperforated MS casing pipe 6 mm thickness up to specified depth below ground level with all contractor's tools, plants, material and labour etc. complete				
27	171542	150 mm internal pipe	metre	1542.93	750	1157197.50
28	171560	Providing, supplying and fixing mild steel plug or screw cap of standard make on top of casing pipe on				

Sl. No.	Item no. of NCR USSOR - 2010	Description of items	Unit	DFCCI L's Rate (Rs)	Qty.	Amount (Rs)
		completed bore as directed by Engineer-In-Charge				
29	171562	150mm dia	Each	179.75	30	5392.50

30	154010	Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete	metre	346.34	1050	363657.00
31	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				
32	192011	All kinds of soils	cum	250.13	74663	18675456.19

33	192030	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40 mm nominal size, in foundation and floors, retaining walls of bridges including mechanical mixing, vibrating, pumping and bailing out water where ever required with all materials and labour complete but excluding the cost of cement and shuttering as per drawings and technical specifications as directed by Engineer	Cum	2693.5 2	2965	7986286.80
34	194010	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast - in Situ/PRECAST) 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	cum	2879.4 6	14678	42264713.88

		directed by Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra				
35	031050	Providing and laying in position cement concrete of M 20 grade, excluding the cost of cement and of centering and shuttering, as per direction of the Engineer in charge :				
36	031051	All works upto Plinth level	cum	2888.0 1	601	1735694.01
37	195030	Centring and shuttering including strutting, propping etc. and removal of form for :				
38	195038	In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component	Sqm	335.62	50408	16917932.96
39	211180	Providing road crane of different capacity with diff. jib length revolving type for material handling, assembly & erection of girders/slab/RCC Box etc.				
40	211186	150 MT capacity with 75 feet jib	Day	56103.4 3	75	4207757.25
41	222120	Providing & applying Epoxy for bonding of new concrete to old concrete @ 0.80 Kg / sqm with pot life not less than 60-90 minutes and as per specifications including cleaning the surface	Sqm	408.82	750	306615.00
42	222300	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power	HP Hour	23.96	1500	35940.00

		of pump multiplied by pumping hours				
43	237010	Providing and fixing Cat's Eye (Glow studs) heavy integral stem, reflective, aluminium die cast with elegant finish of size 100x100mm and 20mm high having a stem of 50mm (or 12mm dia. 90mm long) screwed and nailed to fix into the road surface or at the nosing of the central verge. The road studs should have reflectors fitted on one side of the studs (3Nos. 7 element or 1No. 29 element reflector) complete	Each	839.37	800	671496.00
44	238040	Manufacturing supplying and fixing retro reflective sign boards made up of 2mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized				

		aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm alongwith theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up of M.S. Tee section ISMT 50x50x6 mm - welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours). Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge. (Note : Concreting for fixing may be done as per site requirement and paid for separately)				
45	238041	Cautionary/warning sign boards of equilateral triangular shape having each side of 900mm with support length of 3650mm	Each	5089.1 1	15	76336.65

46	238050	Providing and applying 2.5mm thick road marking strips (retro-reflective) of specified shade/colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and in accordance with applicable specifications	Sqm	952.62	770	733517.40
46	236010	Cement concrete grade M15 of coarse aggregate 40mm nominal size, in pavement, laid to required slope and camber as required including consolidation finishing and temping complete.	cum	2525.0 8	2100	5302668
47	231041	Providing and laying water bound macadam with specified stone aggregate, stone, screening and binding materials including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tone capacity etc. complete. Sub-base with stone aggregate 90mm to 45 mm including stone screening 13.2mm size.	cum	1370.1 3	3150	4315909.50

					Total	387856498
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NON-SCHEDULE 'B' - (S&T)

Sl. No.	Item no.	Description of items	Unit	Rate of DFCCIL	Qty	Amount (Rs)
1	NS-1	Supply & provision of straight through joint in 4/6 quad using Thermoshrink jointing kit as per specification no. IRS/TC:77-2010 (or latest).	No	3020.44	30	90613.20
2	NS-2	Supply of 24 Fibre Armoured Optical Fibre cable with corrugated stainless steel armouring, as per RDSO specification no. IRS :TC / 55 /2006 (Rev.1.0) with latest amendment (including Transportation charge).	Km	73534.38	1.32	97065.38
3	NS-3	Supply of underground Railway jelly fioed quad cable for signalling and Telecom installation of size 6 quad X 0.9 mm conductor diameter ,copper conductor, polythene insulated, sreened (wire/strip) galvanized steelwith specification No. IRS : TC/30-2005 (Ver. -1) with ltest amendment (including Transportation charge)	Km	235303.58	1.32	310600.73
4	NS-4	Supply of OFC joint enclosure & its installation, splicing of 24 fibre optic fibre	No.	14651.27	30	439538.10

Signature of tenderer (s)
with seal

Sl. No.	Item no.	Description of items	Unit	Rate of DFCCIL	Qty	Amount (Rs)
		complete with all accessories of make TVSE R&M model no. 1500 83-XX or Raychem make model no. FOSE 100-BH-A-SJN-21.34 3M make model no. BPEO-Type 1-24F or 2179CS-24F (from TEC approved sources only) This includes provision of pit of concrete & all other needed material for making pit, splicing & installation of joint enclosure.				
5	NS-5	Supply of Double Walled Corrugated pipes HDPE (Elect.REX/Tele. REX or similar) for underground telecommunication/signal cable protection 120mm outer dia, 103.5 mm inner dia. In 6 meters straight length as per British Std. No. BSEN 50086-1 & BSEN 50086-2.4 & BIS draft Spec.DOC HQ LTD 14 (5071) & ETD (5072) to Spec. IS 14930 part II. NOTE :- One coupler for joining shall be supplied with each 6mtrs. length.	m	282.70	900	254430.00
6	NS-6	Laying of Double Walled Corrugated pipes HDPE (Elect.REX/Tele. REX or similar) for underground telecommunication/signal cable protection 120mm outer dia, 103.5 mm inner dia.	m	6.11	900	5499.00
7	NS-7	Supply & Installation of HDPE	km	46361.57	1.05	48679.65

Sl. No.	Item no.	Description of items	Unit	Rate of DFCCIL	Qty	Amount (Rs)
		Pipe 40/33 mm dia as per TEC specification no.GR/CDS-08/02 Nov.2004 with latest amend .				
8	NS-8	Excavating and refilling of trench after laying the cable to the level to the ground with rammed earth as per drg. No.NR/S&T/CON/1.1/97 so as not to form a drain 0.3 Mtrs wide & 1.6 mtrs deep alongside the track. It shall conform to the safe distance as per cable plan in all type of soil. It also includes clearance of routes of trees & bushes.In case of less depth of trench due to site specific condition proportionate payment will be made.	Km	41295.84	1.2	49555.01
9	NS-9	Laying of OFC cable in trench & HDPE pipe over RUB structure All tools & plants required for OFC laying to be arranged by contractor.	Km	7196.67	1.32	9499.60
10	NS-10	Laying of all types of cable (Signaling/Telecom/Quad/Power) of different sizes as per plan approved by railways & meggering of cable before & after its laying	Km	3080.34	1.32	4066.05
11	NS-11	Splicing and testing of 24/32 fibres at every LSC or SER at joint of OFC	No.	6722.35	30	201670.50

Sl. No.	Item no.	Description of items	Unit	Rate of DFCCIL	Qty	Amount (Rs)
12	NS-12	supply & installation of cable route marker of 1:3:6 concrete as per Drg. No.(NR/S&T/CON/1.5.97)	No.	140.2	60	8412.00
13	NS-13	Concreting to protect Cables at Vulernable locations (RUB,Culvert, approaches etc) as per DRG.no TDL/S&T/001 in concrete of 1:3:6 ratio in cement coarse,sand and aggregate 25 mm at different places in Yard/Block section . It includes excavationof earth also as required at site and as per instruction of site incharge. The cement, course and sand aggregate 25 mm are to be supplied by contractor.	P/cum	3519.68	90	316771.20
					Total	1836400

Explanatory Notes for BOQ:

- (i) All NCR USSOR items contain item nos., if any discrepancy is found in nomenclature, schedule nomenclature will prevail.
- (ii) The rates shall also be inclusive of all taxes legally leviable and / or any other taxes, license fee and royalty charges etc. if any.
- (iii) The above quantity is approximate:-The DFCCIL reserve the right to increase / decrease the same.