



Tender No: ALD_EN_ALHRH_OT_02_20_410

For

Name of work:- Construction of balance work of Auto location hut (20nos.) & Relay hut (08nos.) buildings for signal & telecom equipments at different location between ROOMA and SUJATPUR Stations in PRAYAGRAJ - KANPUR Section on DFCCIL Route in connection with DFCCIL railway Track.

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

AUG – 2020

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

**ALLAHABAD/WEST OFFICE:-
2nd Floor, OCC BUILDING, SUBEDARGANJ, JHALWA, ALLAHABAD,
UTTAR PRADESH-211012**

GENERAL INFORMATION/DATA SHEET

TENDER NOTICE NO.	ALD_EN_ALHRH_OT_02_20_410
Name of Work	Construction of balance work of Auto location hut (20nos.) & Relay hut (08nos.) buildings for signal & telecom equipments at different location between ROOMA and SUJATPUR Stations in PRAYAGRAJ - KANPUR Section on DFCCIL Route in connection with DFCCIL railway Track.
(a) Tender Value	Rs. 7,33,99,088/-
(b) Completion Period	09 (Nine) months
(c) Earnest Money	Rs. 14,68,000/- (Rs. Fourteen Lakh Sixty Eight Thousand Only).
(d) Date and Time of Issue of tender	17/08/2020 at 13.00 hrs. on www.ireps.gov.in .
(e) Last date and Time of submission of tender	17/09/2020 at 15.00 hrs. on www.ireps.gov.in .
(f) Date and Time of Opening of Tender (Technical bid -Packet A)	17/09/2020 at 15.30 hrs. On www.ireps.gov.in .
(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 21(Twenty one) days from the date of issue of Letter of Acceptance (LOA), amounting to 5% of the contract value in the form as given in clause 16.4 of GCC

SUMMARY OF PRICES

Name of work:- Construction of balance work of Auto location hut (20nos.) & Relay hut (08nos.) buildings for signal & telecom equipments at different location between ROOMA and SUJATPUR Stations in PRAYAGRAJ - KANPUR Section on DFCCIL Route in connection with DFCCIL railway Track.

Sl. No.	Description of works	Cost as per DSR 2018 including GST	DFCCIL updation %	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 5)
1	2	3	4	5	6
1	Execution of all works as per Schedule "A" as per DSR 2018	73307217.76	0%	73307217.76 % age (in figures) (In words)
2	Execution of all works as per Schedule "B" (NS Items)	91870.20	0%	91870.20 % age (in figures) (In words)
Grand Total (in Rs.):				73399088.00	

Notes:

- (i) The above prices are inclusive of all taxes, duties including GST etc.
- (ii) The tenderer should quote single percentage above/ 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 (Updating factor is 1, since 0% is above the rates of DSR of CPWD), if the rate of any item of DSR of CPWD / Schedule A is "X" and

- (a) If percentage quoted by the contractor is 5 % above (+5%), Rate payable to contractor = (X) x 1 x 1.05

- (b) If percentage quoted by the contractor is 5 % below (-5%), Rate payable to contractor = $(X) \times 1 \times 0.95$
- (c) If percentage quoted by the contractor is at par, Rate payable to contractor = $(X) \times 1 \times 1.0$
- (d) Similarly, updation factor for Schedule B is 1.

SCHEDULE - A
SCHEDULE OF PRICES

SN.	DSR 2018 Item NO.	Description of Item	Unit	Qty	Rate (Rs.)	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	526.47	252.30	132828.38
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	526.47	219.65	115639.14
3	2.25(a)	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	17767.32	323.90	5754834.95
4	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:				
	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size)	cum	589.25	6126.25	3609892.81
5	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	812.11	284.85	231329.53
6	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	2591.46	609.30	1578976.58
7	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	3396.00	693.05	2353597.80

8	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	1091.59	552.05	602612.26
9	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	977.86	733.70	717455.88
10	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	78.69	8886.35	699266.88
11	5.22	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth level.				
	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	KG	40000.00	83.50	3340000.00
12	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	KG	106800.00	83.50	8917800.00
13	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).				
	5.33.1	All works upto plinth level	cum	618.70	7997.30	4947929.51
14	5.33.2	All works above plinth level upto floor V level	cum	684.43	9400.85	6434223.77
15	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	100.00	673.30	67330.00

16	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	681.00	6157.45	4193223.45
17	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1165.07	7590.45	8843405.58
18	10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	Sqm	191.00	4428.15	845776.65
19	10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment				
	10.11.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3coarse sand : 6 graded stone aggregate 20 mm nominal size)	KG	4200.00	166.50	699300.00
20	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				
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	KG	2100.00	131.00	275100.00

21	10.31	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	KG	17428.00	96.20	1676573.60
22	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)	Sqm	817.37	1495.00	1221968.15
23	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)	Sqm	1084.64	1607.70	1743775.73
24	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	1178.40	926.90	1092258.96
25	11.37(a)	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	10.00	927.90	9279.00
26	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,(i) Single socketed pipes				
	12.41.2	110 mm diameter	metre	230.35	305.05	70268.27

27	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.5	Bend 87.5°				
	12.42.5.2	110 mm bend	each	56.00	129.85	7271.60
28	12.42.6	Shoe (Plain)				
	12.42.6.2	110 mm Shoe	each	56.00	113.80	6372.80
29	12.53	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.	sqm	920.64	1643.95	1513486.13

		Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/ opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/ mK.				
30	13.1	12 mm cement plaster of mix :				
	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	8812.08	254.25	2240471.34
31	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	8457.36	292.85	2476737.88
32	13.44	Finishing walls with water proofing cement paint of required shade				
	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	4009.38	91.25	365855.93
33	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	Sqm	678.37	125.80	85338.95
34	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	9649.00	115.15	1111082.35
35	13.83	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
	13.83.2	Two coats	Sqm	5640.72	113.90	642478.01
36	16.19	Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc	KG	7152.00	92.40	660844.80

37	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	Mtr	1484.00	290.80	431547.20
38	16.70	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge				
	16.70.1	Made of G.I. wire of dia 4 mm	Sqm	2082.00	797.20	1659770.40
39	22.6	<p>Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:</p> <p>(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.</p> <p>(b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.</p> <p>(c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.</p> <p>(d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately.</p> <p>(For the purpose of measurement the entire treated surface will be measured.)</p>	Sqm	2304.75	523.05	1205499.49
40		All other items OF DSR 2018.				725814.00
TOTAL						73307217.76

SCHEDULE - B
SCHEDULE OF PRICES

SN.	NS Item No.	Description of Item	Unit	QUANTITY	Rate (Rs.)	AMOUNT
1	NS-1	Supplying and fixing MS fan ceiling Junction box with hook of 12mm dia of minimum size, 150mm dia in recess of ceiling with hylem sheet cover as per site requirement and ISS/IE rule/ technical specification.	Each	76	134.75	10241.00
2	NS-2	Supplying and laying of M.S. Conduit pipe of approved quality of following sizes in recess including chase cutting of required size in brick wall RCC, CC etc. earthing of conduit pipe with 14 SWG earthing wire of approved quality run out side along the conduit pipe with all accessories like Jn. Boxes, conduit bends and joints etc. as a complete job as per requirement with cover. The chas made for conduit will be made good and repaired/plastered by contractor with all labour & material. Nothing extra shall be paid for cement used in repair/plaster.				
		(a) 25mm dia	metre	1080	42.42	45813.60
3	NS-3	Supplying and fixing of MS boxes (185WG) of following sizes in recess by cutting the wall and making good the same with plaster along with egg white hylem sheet for switches, sockets, outlets and regulators as per technical specifications as a complete job.				
4	NS-3A	(a) S&F OF MS boxes (100x100x65mm) etc.	Each	92	99.83	9184.36
5	NS-3B	(a) S&F OF MS boxes (175x100x65mm) etc.	Each	92	133.92	12320.64
6	NS-3C	(a) S&F OF MS boxes (250x200x65mm) etc.	Each	92	155.55	14310.60
					SUB TOTAL	91870.20

Explanatory Notes for BOQ:

- (i) Cement and Admixture is included in the Items unless otherwise stated in the Item.
- (ii) Contractor shall quote rates of shuttering and curing for all heights.
- (iii) The rates of reinforcement item mentioned in the above schedule include placing of reinforcement under running traffic conditions.
- (iv) All CPWD DSR 2018 items contain item nos., if any discrepancy is found in nomenclature, schedule nomenclature will prevail.
- (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.