



E-Tender No. ALD/E/EN/Qtr./2018/01.

For

NAME OF WORK: - Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of internal road, park boundary wall including horticulture and landscaping etc.

**FINANCIAL BID
(PACKET-B)**

TENDER DOCUMENT

June, 2018

**Employer:
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
CPM/Allahabad/East UNIT
(A GOVERNMENT OF INDIA ENTERPRISE)
Under
MINISTRY OF RAILWAYS**

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD
A Govt. of India (Ministry of railways) Enterprises
1st Floor, Old GM Building, Valmiki Chauraha, Nawab Yusuf Road, Allahabad-
211001

Tender No	ALD/E/EN/Shed/2018/02 dated-24.05.2018
Name of work	Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park, boundary wall including horticulture and landscaping etc.
(a) Type of Tender	Open Tender (Single Stage Two Packet).
(b) Type of Contract	Item Rate Contract.
(c) Tender Value	Rs.15,50,00,000/ (Including Taxes)
(d) Completion Period	12 months
(e) Earnest Money	Rs.30,00,000.00 (Paid through Demand Draft/ banker's Cheque, FDR payable in favour of "Dedicated freight Corridor corporation of India Limited, Allahabad/East")
(f) Cost of Tender document	Rs.11,800.00 (Including GST@18%) through Banker's cheque/ demand draft in favour of Dedicated Freight Corridor Corporation of India Limited, Allahabad towards the cost of one set of tender documents. The Banker's cheque/ demand draft shall be from State Bank of India or any of the nationalized bank or by Indian Scheduled Bank.
(g) Tender Processing Fee	Rs.8,850.00(Including GST@18%) (non-refundable) through e-payment while uploading of tender.
(h) 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
(i) Retention Money / Security Deposit	5% of Contract Value
(j) Officer:	Chief Project Manager Allahabad/East, Dedicated Freight Corridor Corporation of India Limited/Allahabad/East, 1st Floor, Old GM Building, Valmiki Chauraha, Nawab Yusuf Road, Allahabad- 211001
(k) E-Tendering Web Site	www.tenderwizard.com/DFCCIL helpdesk no. 011-49424365 or mob. 8090426426

DATE & TIME SCHEDULE	
Date of Uploading of NIT & Other Documents (Online Publishing date)	05.06.2018 at 11.00 Hrs.
Documents download/Sell date (Online)	From 05.06.2018 at 11.00 Hrs.
Bid submission Last date (Online)	26.06.2018 up to 15.00 Hrs.
Last date of submission of originals of statutory documents i.e. EMD & Tender Document Charge	26.06.2018 up to 15.00 Hrs.
Bid Opening date & Time (online)	26.06.2018 at 15.30 Hrs.

Chief Project Manager Allahabad/East, Dedicated Freight Corridor Corporation of India Limited/Allahabad/East, 1st Floor, Old GM Building, Valmiki Chauraha, Nawab Yusuf Road, Allahabad- 211001

**SCHEDULE -1
SCHEDULE OF PRICES & TOTAL PRICES**

SUMMARY OF PRICES						
Name of work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park, boundary wall including horticulture and landscaping etc.						
S. No.	Description of works	Cost as per USSOR 2010 of NC Rly / Basic Cost	DFCCIL updated %	DFCCIL updated cost in Rs (Including Taxes)	DFCCIL updated cost in Rs (Excluding Taxes)	Rates to be quoted as Percentage above / below / at par on updated DFCCIL Rate / cost given in Column-6)
1	2	3	4	5	6	7
1	Schedule A NS items			6947776.42	6203371.81	For each Schedule, Rates to be quoted in the Excel Sheet provided in the Financial Bid clearly mentioning Percentage above / below / at par on updated DFCCIL Rate / cost given in Column-6. The submission shall be online on the tender wizard site. No physical submission of Financial Offer is required.
2	Schedule B-I General Items	57,978,302.18	9.567	63,525,086.35	56718827.10	
3	Schedule B-II Sanitary and pipe line works	2,637,196.49	12.920	2,977,922.27	2658859.17	
4	B-III wood work	10,289,999.02	9.770	11,295,331.92	10085117.79	
5	Schedule -B IV - Horticulture And Landscaping and park development	963388	9.567	1055555.33	942460.12	
6	Schedule B-V Shed 10x 30 including platform for multipurpose work at Park. Ref. USSOR 2010 of N C Rly.	1244846.50	17.700	1456470.40	1300420.00	
7	Schedule C-I Cement supply works	14,574,655.38	10.300	16075844.88	14353432.93	
8	Schedule C-II steel supply works	37,779,490.32	11.870	42263915.82	37735639.13	
9	Misc. Items which items was not covered in above schedule items of USSOR of E C Rly 2012.	1000000		1000000	892857.14	
10	Electric General works			8402097	7501872.32	
	Grand Total			155,000,000.40	138,392,857.50	

NOTE:-

- (i) GST will be paid extra.
- (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

Signature of tenderer (s)

For CPM/ALLAHABAD/EAST

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 above/below/at par on rates of schedule.

Schedule A NS items

Name of work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park. boundary wall including horticulture and landscaping etc.						
Item No.	NS/SoR Ref	Item Description	Unit	Quantity	Rate (Rs)	Total amount
1	NS 1	Boring under ream pile with one/two bulbs of 400mm diameter with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap)	Rm	5507.6	352.38	1940768.09
2	NS2	Breaking of pile head upto cutoff level	Nos	786.8	1033.01	812772.27
3	NS3	Providing, fixing & testing uPVC SWR (Type B) pipes conforming to IS 4985 along with all required fittings like tees, bends, crosses with or without access doors jointed with approved solvent cement as per manufacturer's recommendations, fixed to walls and ceilings with clamps complete including cutting and making good the floors and walls where required complete of outer diameter. (price to be inclusive of fire rated uPVC wherever crossing from one floor to another floor occurs.)				
(a)		160 mm OD.	RM			
b)		110 mm OD.	RM	2950.5	411.14	1213068.57
c)		75mm OD	RM	2360.4	389.80	920083.92
4	NS4	Waterproofing and filling in sunken and terrace	Sqm	5605.95	367.66	2061083.58
5	NS 5	Supply of Pre-Cast concrete Benches (3 seater) without Arm rest , Reinforced with 8 mm 10 mm, 12 mm steel with M-30 Grade Concrete.	Each	4500	20	90000
Total amount Rs						6947776.42

Schedule B-I General Items

Name of work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park, boundary wall including horticulture and landscaping etc.						
S N	US SOR 2012 of E.C. Rly.	Item Description	Unit	Quantity	Rate (Rs.)	Total amount
1	011010	Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in				0
(a)	011011	All kinds of soils	Cum	2724.48	93.54	254,847.86
2	12010	Dressing to neat dimension and plumbing sides for Excavation in foundation.	cum	168.3	10.20	1716.66
3	12040	Filling, watering, ramming earth in foundation.	cum	203.78	21.90	4462.782
4	13111	Earth work in cutting In all conditions and classifications of soil except rock	cum	20.25	163.81	3317.00

5	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 vegetation's 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 Contra	cum	31764.06	139.23	4,422,510.07
6	012040	Filling, watering and ramming earth in 15 cm layers in floors and foundations with surplus earth from foundations including 50m lead and 1.5m lift	Cum	245.83	21.9	5,383.68
7	012050	Supplying and filling sand in plinth and under floors including watering, ramming, consolidating and dressing complete	Cum	1671.67	602.73	1,007,565.66
8	13140	Preparation and surface treatment of excavated area by removing extra material, watering to the extent needed to maintain the desired moisture content, dressing to the required level and compacting to requirement.	Cum	1671.67	137.35	229,603.87
9	031010	Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level:				-
a)	031014	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	Cum	453.22	2348.16	1,064,233.08

10	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.				-
(a)	031023	1:2:4 (1 cement: 2 sand: 4 graded stone aggregate 20mm nominal size)	Cum	126.14	2911.03	367,197.32
11	032080	Providing Precast plain cement concrete jali 1:2:4 (1 cement : 2 sand : 4 stone chips 12.5mm nominal size) including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand) including the cost of centering, shuttering and finishing complete including the cost of cement and of plastering of jambs, sills and soffits.				-
(a)	032082	50 mm thick	Sqm	237.57	388.94	92,400.48
13	041010	Providing and laying in position M 30 and M25 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge				-
(a)	041011	All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc.	Cum	2143.67	3341.6	7,163,287.67
14	041012	All work in buildings above plinth level upto floor two level.	Cum	2384.31	3619.33	8,629,604.71
15	042010	Centering and shuttering including strutting, propping etc. and removal of form for :				-
(a)	042011	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	2557.1	138.3	353,646.93
(b)	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	13660	230.28	3,145,624.80

(c)	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	6491.1	201.54	1,308,216.29
(d)	042015	Columns, pillars, , posts and struts	Sqm	4406.08	282.3	1,243,836.38
(e)	042016	Stairs (excluding landings) except spiral-staircases	Sqm	1032.645	291.6	301,119.28
12.0	51017	Brickwork with Non-Modular (FPS) brick of class designation 10 in foundation and plinth super structure in Cement Mortar 1:4 excluding Cement, all complete as per direction of engineer in charge.	cum	162.40	2880.95	467866.00
13	051180	Half brick masonry with bricks of class designation 7.5 in foundations and plinth in :				-
(a)	051182	Cement mortar 1:4 (1 Cement : 4 coarse sand)	Sqm	6097.7	340.26	2,074,803.40
14		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 ::				-
(a)	052019	Cement mortar 1:6 (1 cement: 6 coarse sand).	Cum	1671.95	3852.15	6,440,602.19
(b)	052018	Cement mortar 1:4 (1 cement: 4 coarse sand).	Cum	658.945	3852.15	2,538,354.98
15	081420	Providing and fixing hand rail by welding etc. to steel ladders railing, balcony railing and staircase railing including applying a priming coat of approved steel primer				-
a)	081421	M.S. tube (medium) 40mm nominal bore	Kg	4917.5	106.02	521,353.35
16	081100	Providing and fixing MS round or square bars/ flats or grills in frames in window and clerestory windows	Kg	8851.5	62.47	552,953.21
17	098080	Providing and laying vitrified tiles conforming to Group B-II, Clause 5.1 (for abrasion resistance) of IS : 15622 of manufacturers approved by railway in all colours, shades and design as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement : 4 coarse sand) including pointing with polymer based grout of matching shade complete of size :				-
(a)	098083	600x600x10mm	Sqm	4327.4	1235.34	5,345,810.32

18	095010	Providing and laying ceramic tiles conforming to Group B-II, Clause 5.1 (for abrasion resistance) of IS : 15622 of manufacturers approved by railway in all colours, shades and design as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement : 4 coarse sand) including pointing with polymer based grout of matching shade complete of size				-
(a)	95013	300x 450 mm and above	Sqm	2163.7	826.31	1,787,886.95
(b)	95012	200x300	Sqm	314.72	615.26	193,634.63
19	096060	Kota stone slab flooring of size up to 30x30cm over 20mm (average) thick base of 1:4 cement mortar (1cement: 4coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete				-
(a)	096062	25mm thick	Sqm	786.8	1002.9	789,081.72
20	096080	Kota stone slabs 25mm thick in risers of steps, skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1cement: 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete :	Sqm	393.4	859.42	338,095.83
21	099030	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels				-
(a)	099034	Granite Black. Area of slab over 0.5 Sqm but upto 1.0 Sqm	Sqm			-
(b)	099035	Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger	Sqm	393.4	3615.48	1,422,329.83

22	104040	Providing and laying FPS brick tiles of class designation 10 over roofs grouted with cement mortar 1:3 (1cement: 3fine sand) mixed with 2% of integral water proofing compound by weight of cement, over a 12mm layer of cement mortar 1:3 (1cement: 3fine sand) and finished neat				-
(a)	104011	With F.P.S. flat brick tiles of class designation 10	Sqm	0		-
23	104140	Making khurras 45x45cm with average minimum thickness of 5cm cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate of 20mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1cement: 3coarse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete	each	118.02	110.76	13,071.90
24	108160	Providing and fixing on wall face unplasticised - Rigid PVC single socketed rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion.				-
a)	108162	110mm dia	RM	1022.84	232.98	238,301.26
25	111010	12 mm cement plaster of mix -				-
(a)	111011	1:4 (1cement: 4 fine sand)	Sqm	37227	62.5	2,326,687.50
26	111150	Cement plaster to external of mix -				-
(a)	111151	20 mm thick 1:4 (1cement: 4 fine sand)	Sqm	17112.9	53.56	916,566.92
27	115010	White washing with lime to give an even shade	Sqm			-
28	115050	Distemping two or more coats on new work with 1st quality acrylic washable distemper (ready mixed) of approved manufacturer and of required shade and colour complete as per manufacturer's specification	Sqm	36046.5	38.02	1,370,487.93
29	112040	Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete	Sqm			

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30	115110	Finishing walls with water proofing cement paint of required shade two or more coats on new work applied @ 3.84 Kg/10 sqm	Sqm	19737	40.96	808,427.52
31	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	1123.55	65.69	73,806.00
32	121050	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				-
(a)	121051	Two or more coats	Sqm	3249.309	49.12	159,606.06
		Total				57,978,302.18
		Add 9.567% above as per DFCCIL Arrived rate from LOA				63,525,086.35
		Total amount				63,525,086.35

Schedule B-II Sanitary and pipe line works

Name of work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park. boundary wall including horticulture and landscaping etc.						
S N	US SOR 2012 of E.C. Rly.	Item Description	Unit	Quantity	Rate (Rs)	Total amount
1	134090	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms	each			-
		Providing and fixing brass bib cock of approved quality :				-
2	132180	Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931	each	470.08	409.49	192,493.06
3	138040	Hoisting, fitting and fixing in position plastic moulded water storage tank including making connection of intake, delivery, outlet and overflow .pipes etc. with all lead and lift upto all stories. Cost of tanks/fitings to be paid separately				-
(a)	138043	1000 ltr capacity tank	each	118.02	981.3	115,813.03
4	131080	Providing and fixing GI (GI) pipes, having thermal stability for hot & cold water supply including all GI plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step GI solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Internal work – exposed on wall				-
a)	131081	15mm nominal outer dia. Pipes	RM	3540.6	130.52	462,119.11
b)	131082	20mm nominal outer dia. Pipes	RM	1573.6	155.81	245,182.62
c)	131083	25mm nominal outer dia. Pipes	RM	1671.95	194.02	324,391.74
d)	131084	32mm nominal outer dia. Pipes	RM	2065.35	253.43	523,421.65
5	151010	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required				-
(a)	151011	White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests	each	118.02	3253.4	383,966.27

Signature of tenderer (s)

For CPM/ALLAHABAD/EAST

6	152030	Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink without drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required				-
(a)	152033	470X420mm bowl depth 178mm	each	118.02	2719.79	320,989.62
7	154010	Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete	mtr.	260.00	264.69	68819.40
		Total				2,637,196.49
		Add 12.92% above as per DFCCIL Arrived rate from LOA.				2,977,922.27
		Total amount				2,977,922.27

Schedule B-III wood work

Name of work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park. boundary wall including horticulture and landscaping etc.						
S N	US SOR 2012 of E.C. Rly.	Item Description	Unit	Quantity	Rate (Rs)	Total amount
1	071010	Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position :				-
(a)	071012	Sal wood	Cudm	59993.5	78.37	4,701,690.60
2	072150	Providing and fixing flush door shutters to IS: 2202 Part-I non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				-
(a)	072152	Flush doors	Sqm	1346.41	1161.2	1,563,451.29
3	072090	Providing and fixing wire gauge shutter using galvanized M.S. wire gauge of average width of aperture 1.4mm with wire of dia 0.63mm for doors, windows and clerestory windows including ISI marked bright finished or black enameled M.S. butt hinges with necessary screws				-
(a)	72091	2ndclass teak wood 35mm thick	Sqm	635.54	2765.07	1,757,312.59
4	072020	Providing and fixing panelling/glazing or panelling and glazing in panelled/ glazed or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling/glazing for panelled/ glazed or panelled and glazed shutters 25mm to 40mm thick				-
(a)	072021	2nd class teak wood.15mm thick	Sqm	708.12	1987.59	1,407,452.23
(b)	072037	Glazing with float glass panes 4mm thick (10kg/sqm)	Sqm	668.78	352.99	236,072.65
5	075050	Providing and fixing M.S. sliding door bolts generally conforming to IS: 281, bright satin finish or black stone enameled with nuts and screws etc. complete of size	Nos			-
(a)	075051	300x16 mm		2871.82	149.89	430,457.10

6	075060	Providing and fixing M.S. tower bolts generally conforming to IS:204 (Part I) with necessary screws etc. complete of size.				-
(a)	075063	150x10 mm	Nos	2557.1	32.79	83,847.31
6	075070	Providing and fixing M.S. door handles with necessary screws etc. complete.				-
(a)	075071	125mm	Nos	3304.36	16.12	53,266.28
7	078070	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade with necessary screws etc. complete				-
(a)	078072	Twin rubber stopper	Nos	590.1	95.66	56,448.97
8	075220	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS: 5930 with screws etc. complete				-
(a)	075221	320x20x6 mm	Nos			-
9	074260	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using galvanized M.S. wire gauge with average width of aperture 1.4mm in both directions with wire of dia 0.63mm				-
		Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	Sqm			-
		Total				10,289,999.02
		Add 9.77% above as per DFCCIL Arrived rate from LOA .				11,295,331.92
		Total amount				11,295,331.92

Schedule -B IV - Horticulture And Landscaping and park development

Name of work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park. boundary wall including horticulture and landscaping etc.						
S N	US SOR 2012 of E.C. Rly.	Item Description	Unit	Qty.	Rate (Rs)	Total amount
1	161020	Supplying and stacking of good earth at site including royalty (earth measured in stacks will be reduced by 20% for payment)	cum	265.9	600	159540
2	161040	Supplying and stacking at site dump manure / farm manure / animal dung manure from approved source; including all lead and lift etc. (manure measured in stacks will be reduced by 8% for payment)				
3	161042	Screened through sieve of I.S. designation 4.75mm	cum	125.75	200	25150
4	161060	Rough dressing the trenched ground including breaking clods	100 sqm	46.36	150	69
5	161120	Renovating lawns including weeding, heeling the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed, -- Contd. including supplying good earth, sludge or manure, if needed (cost of sludge/manure & good earth to be paid separately)	100 sqm	964.06	200	1928
6	161170	Providing and fixing M.S. flat iron tree guard 60cm dia. and 2m height above ground level formed of 4 nos. 25mmx6mm and 8 nos. 25mmx3mm vertical M.S. flat riveted to 3 nos. 25mmx6mm M.S. flat iron rings in two halves, bolted together with 8mm dia. and 30mm long bolts including painting two coats with paint of approved brand and manufacture over a coat of priming, complete in all spect	each	2201.76	100	220176
7	81020	Structural steel work riveted or bolted in built up sections, trusses and framed work, girders, staging, racks etc. including cutting, bending, straightening, drilling, rivetting, bolting, hoisting, fixing in position including applying a priming coat of a approved steel primer complete - upto 6m height above GL				
8	81021	In RSJ, tees, angles and channels	kg	70.1	3500	245350
9	81022	In flats, plates, round or square bars	kg	69.15	4500	311175

	total	963388
	Add 9.567% above as per DFCCIL Arrived rate from LOA .	1055555.33
	Total amount	1055555.33

Schedule B-V Cover Shed 10x 30 including platform for multipurpose work at Park.

Name of work : Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park, boundary wall including horticulture and landscaping etc.						
S N	US SOR 2010 of N.C. Rly.	Item Description	Unit	Qty.	Rate (Rs)	Total amount
1	081031	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: In RSJ, tees, angles and channels.	1224	Kg	69.24	84749.76
2	081032	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: In flats, plates, round or square bars.	2448	Kg	68.00	166464
3	081291	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 : Hot finished welded type tubes.	7133.88	Kg	95.94	684424.4472
4	081360	Providing & Fixing M.S. round holding down bolt with nuts and washer plates complete.	134.64	Kg	82.04	11045.8656

5	103092	Providing & fixing machine made UV stabilised fibreglass reinforced plastic sheet roofing upto any pitch including fixing with polymer coated 'J' or 'L' hooks, bolts and nuts 8mm dia. G.I. plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% Ultra-violet stabilizer in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified: 2mm thick flat sheets.	224.64	Sqm	1327.29	298162.4256
		total				1244846.50
		Add 17.7% above as per DFCCIL Arrived rate from LOA .				1456470.40
		Total amount				1456470.40

Schedule C-I Cement supply works

Name of work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park, boundary wall including horticulture and landscaping etc.						
S N	US SOR 2012 of E.C. Rly.	Item Description	Unit	Quantity	Rate (Rs)	Total amount
49	33061	Cost of cement (OPC 43)	mt	2,197.85	6631.33	14,574,655.38
		Total				14,574,655.38
		Add 10.30% above as per DFCCIL Arrived rate from LOA .				16,075,844.88
		Total amount				16,075,844.88

Schedule C-II steel supply works

Name of work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park. boundary wall including horticulture and landscaping etc.							
S N	US SOR 2012 of E.C. Rly.	Item Description	Unit	Quantity	Rate (Rs)	Total amount	
50	045010	Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				-	
(a)	045014	High yield strength deformed bars	Kg	586092	64.46	37,779,490.32	
		Total				37,779,490.32	
		Add 11.87% above as per DFCCIL Arrived rate from LOA .					42,263,915.82
		Total amount					42,263,915.82

Schedule B-VI ELECTRICAL DEPARTMENT

Dedicated Freight Corridor Corporation Of India Ltd.

Statement Showing Of Estimated Cost

Name of Work: Construction of 118 unit type-II (G+2) quarters at New Loco Colony Mughalsarai, and development of Internal road, park. boundary wall including horticulture and landscaping etc.								
S. N.	Description of Item (PART : A)	Unit	Qty	Rate	Cash	Pur.	Store	Total
1	Concealed wiring of light point / Fan point / exhaust fan/call bell point in heavy gauge PVC conduit pipe as per IS 9537 with PVC insulated single core 1.5 sqmm multistrand copper conductor wire in voltage grade 1100 volt as per IS 694 with ECC of 1/18 SWG Copper wire. Make: Polycab, Anchor, Finolex.	Each	1298	254.00	329692.00	0.00	0.00	329692.00
2	Concealed wiring of 5 Amp plug point in heavy gauge PVC conduit pipe as per IS 9537 with PVC insulated single core 1.5 sqmm multistrand copper conductor wire in voltage grade 1100 volt as per IS 694 with ECC of 1/18 SWG Copper wire. Make: Polycab, Anchor, Finolex.	Each	354	160.00	56640.00	0.00	0.00	56640.00
3	Supply, Fixing, testing and commissioning of 15/5Amp 5 in 1 combined switch, socket, fuse units duly ISI Approved as per IS: 6538/1971 make: Anchor, EPP. JJ	Each	336	126.00	42336.00	0.00	0.00	42336.00
4	Concealed Wiring of main from main distribution board to sub board in heavy gauge PVC conduit Pipe as per IS : 9537 with PVC multistrand copper conductor of size 2 x2.5 sqmm in voltagegrade 1100 volt as per IS: 694 with ECC of 1/18 SWG copper wire, make of wire: Finolex, Plaza, Polycab etc.	Mtr	8950	87.00	778650.00	0.00	0.00	778650.00
5	Concealed Wiring of main from main distribution board to sub board in heavy gauge PVC conduit Pipe as per IS : 9537 with PVC multistrand copper conductor of size 2 x 4 sqmm in voltagegrade 1100 volt as per IS: 694 with ECC of 1/18 SWG copper wire, make of wire: Finolex, Plaza, Polycab.	Mtr	5900	126.00	743400.00	0.00	0.00	743400.00
6	Concealed Wiring of main from main distribution board to sub board in heavy gauge PVC conduit Pipe as per IS : 9537 with PVC multistrand copper conductor of size 2 x 6 sqmm in voltagegrade 1100 volt as per IS: 694 with ECC of 1/18 SWG copper wire, make of wire : Finolex, Plaza, Polycab.	Mtr	3540	137.00	484980.00	0.00	0.00	484980.00

7	Concealed Wiring of main from main distribution board to sub board in heavy gauge PVC conduit Pipe as per IS : 9537 with PVC multistrand copper conductor of size 2 x 10 sqmm in voltagegrade 1100 volt as per IS: 694 with ECC of 1/18 SWG copper wire, make of wire: Finolex, Plaza, Polycab etc.	Mtr	2360	205.00	483800.00	0.00	0.00	483800.00
8	Supply & erection of earthpit as per IS 3043 GI pipe used in size of 50 mm dia x 3 mtrs long medium gauge with alternate layer of charcoal and salt as per Sr. DEE(G) drg no MGS/EL/G/Drg/01/08-09 dt 08.08.08 make of GI pipe: Tata, Jindal, Bansal	Each	60	1495.00	89700.00	0.00	0.00	89700.00
9	Fixing, testing and commissioning of ceiling fans with suitable clamps	Each	336	68	22848.00	0.00	0.00	22848.00
10	Fixing, testing and commissioning of Exhaust fans with suitable clampos (Supplied by Rly.)	Each	118	195.5	23069.00	0.00	0.00	23069.00
11	Supply of LED street light luminaires wattage 25 W pressure die cast Aluminium housing with heat resistant toughened glass and IP 65 protection. Make - CG , Philips , bajaj, Surya	Each	30	2150	64500.00	0.00	0.00	64500.00
12	Fixing of above street light fittings with suitable clamps.	Each	30	127.83	3834.90	0.00	0.00	3834.90
13	Supply of LED light 18 watt K Make : HPL , Havells, Surya	Each	236	450	106200.00	0.00	0.00	106200.00
14	Fixing of above light fittings with suitable clamps.	Each	236	115	27140.00	0.00	0.00	27140.00
15	Supply, fixing, testing and commissioning of 32 Amp. DP Main switch. Make - Anchor, havells, Standard.	Each	118	167	19706.00	0.00	0.00	19706.00
16	Supply, fixing, testing and commissioning of Earth Leakage Circuit Breakers of capacity 25 Amp with sensitivity 300 mA as per IS:8828/IEC898, Make - HAVELLS, SIEMENS, L&T.	Each	118	1446.00	170628.00	0.00	0.00	170628.00
17	Supply, fixing, testing and commissioning of 4 Pole 63 Amp MCCB/440 V AC with sheet steel encloser Make: Seimens, L&T, havells.	set	20	5225.00	104500.00	0.00	0.00	104500.00
18	Providing and fixing medium grade GI pipes of 80 mm dia complete with GI fittings including trenching and refilling etc. for external work Make of GI pipe : Tata, Jindal, Bansal	Mtr	60	760.35	45621.00	0.00	0.00	45621.00

19	Supply, fixing, testing and commissioning of 3 way DB with 03 Nos. SP MCB 16 Amp. / 240 V as per IS 11039/ 83 (Reaffirm 2005) - 8828 / IEC 898. Make - Siemens, Standard, Havells, Hagers .	Each	118	552	65136.00	0.00	0.00	65136.00
20	Erection of 2nd hand Rail pole/Tubular Pole 20 feet Long in trnch 8'x3'x5' mm in the ratio 1:3:6 of cement, sand, stone chip	Each	30	238.17	7145.10	0.00	0.00	7145.10
21	Foundation of pole in with PCC concrete M-10 size 90x 90x 150 cm	cum	33.9	1475.33	50013.69	0.00	0.00	50013.69
22	Muffing from ground level to 18" height with cement sand and stone chips of 12mm to 20mm in ratio of 1:2:4.	cum	0.9	1474.62	1327.16	0.00	0.00	1327.16
23	Scrapping, cleaning, painting of rail pole after cleaning the pole including bracket with red oxide paints from top to the ground level and 2nd coat of black enamelled paints finish upto height of 5' long from ground level on all the side of the pole and 2nd coat of aluminium paint of remaining portion of the poles is to be painted. .	Each	30	164.45	4933.50	0.00	0.00	4933.50
24	Wall clamping of cable on wall /bridge through suitable clamp of size 50 x 6 mm of MS flat or catenary of cable through 8 SWG GI Wire with suitable clamps (As per site requirement)	Mtrs	400	33	13200.00	0.00	0.00	13200.00
25	Digging of trenches 1 mtrs deep x 60 cm wide in all types of soil such as ordinary soil, hard soil, mixed with morum, hard clay, soft & hard rock etc.	Mtrs	1200	21.67	26004.00	0.00	0.00	26004.00
26	To pack soft soil and sand below and above after laying single cable and 2nd class of 12 cm (4.5") above and right angle to trench laying the bricks 6 Cm (2.5") longitudinally all along the trenches over the cable to protect the cable from the external injury.	Mtrs	1200	31.33	37596.00	0.00	0.00	37596.00
27	Laying of the above cable in the trench as per IS: 1255/1983(latest version).	Mtrs	1150	10	11500.00	0.00	0.00	11500.00
28	Back filling of the trench and ramming the earth all along the trench.	Mtrs	1150	10	11500.00	0.00	0.00	11500.00

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29	Supply, fixing, Testing and commissioning of MS Bracket of size 65 x65 x6 mm with suitable clamps made of MS Flat of size 65 x6 mm	Each	26	120	3120.00	0.00	0.00	3120.00
30	Supply of 3 Core x 95 Sq. mm HT Cable duly ISI approved of reputed make suitable for 11 kV . Make - Havells, Gloster , NICO, Polycab	Mtr	600	854.00	512400.00	0.00	0.00	512400.00
31	Supply of Armoured XLPE LT Cable of size 3.5 x 120 Sq. mm.	Mtr	1000	345.57	345570.00	0.00	0.00	345570.00
32	Supply of electric fan capacitor type sweep size 1200 mm,type of regulator fitted in ceiling fan, electronics ISI marking, BEE star rating suitable for operation on single phase AC,230V,50Hz:- ISI approved Usha, havels, Kaitan, bajaj Make	Each	336	1188.00	399168.00	0.00	0.00	399168.00
33	Supply of single phase Propeller type Ventilating 04 Poles Exhaust fan of 300 mmm. Sweep with louver shutter. Make - Madhuban EX 4-15	Each	118	1698.75	200452.50	0.00	0.00	200452.50
34	Supply of IInd hand Rail Pole	Each	30	2000.00	60000.00	0.00	0.00	60000.00
35	Fixing testing and commissioning of electronic energy meter	Each	118	36.00	4248.00	0.00	0.00	4248.00
36	Single phase energy meter Class 1, 10-40A,240V	Each	118	490.00	57820.00	0.00	0.00	57820.00

37	Supply, Installation, Fabrication, testing and commissioning of LT cubical panel Board comprising with following items (dimension of panel 4.2 x 2.1 x 1 mtr approx) Incoming (i) ACB -02 nos, type MDO 4 pole, Rated current 800 Amp as per Siemens cat no. 3WT 80851AA04AB2, Make L&T, Siemens or similar. (ii) voltmeter with selector withch-2 nos., make AE or similar. (iii) LED phase indicator lamp-06 nos make L&T, Siemens or similar. Outgoing: (i) switch disconnecter units -01 nos rated current 1000 Amp as per Siemens type 3 KA 1030-01YA00 make : L&T, Siemens or similar (ii) ACB- 2 Nos type MDO 4 Pole, rated current 630 Amp as per Siemens cat no. 3WT 8065- 01AA045AB2 make L&T , Siemens or similar . (iii) MCCB - 05 No, rated current 140-200 amps, Breacking capacity: 35 KA, As per Siemens cat no. 3 VT 8320- 0B040A-2, make - L&T, Siemens or similar. (iv) MCCB-03 Nos, rated current 280-400 Amps , Breacking capacity: 35 KA, as per Siemens cat no. 3 VT8440-1BA040a-02, make -L&T, Siemens or similar (v) Ammeter with selector switch and CT- 12 sets, make of Ammeter- AE or similar and make of CT - Kappa or similar(v) Copper Bus Bar 3 phase.	Set	1	1207250	1207250.00	0.00	0.00	1207250.00
38	Supply , fixing , testing and commissoing of LT Cubical Panel board of size 135 x195 x45 Cm. and thickness 2 mm. comprising of the followings : (1)- For INCOMING 4 Pole 800 Amp. Cap. /415 V A.C. MCCB =02 Nos. , Make - ABB, GE, Siemens, L&T, Havells, Standard, For Outgoing: (1)- 4 Pole , 200 Amp. Cap. / 415 V A.C. MCCB: 04 Nos. Make - ABB, GE, Siemens, L&T, Havells, Standard (2)- 4 Pole, 125 Amp. Cap. 415 V A.C. MCCB = 02 Nos. make: Make - ABB, GE, Siemens, L&T , Havells, Standard (3)- 4 Pole , 63 Amp. Cap. 415 V A.C. MCCB = 02 Nos. make : Make - ABB , GE , Siemens , L&T , Havells, Standard (4)- Voltmeter (0-500 V) with selector switch , Ammeter with selector switch Make - Kaycee, AE with CT 800/5, Make - Kappa and Copper Bus bar 800 Amp. of requisite size as per Panel size of 3 Phase and Neutral with other accessories complete in all respect.	Set	1	367000	367000.00	0.00	0.00	367000.00
39	Supply (except rail pole), fabrication, & erection of 'H' Pole structure bracing with angle iron 50 X 50 X 6 mm & 75 X 40 X 6 mm channel nut bolt, rail pole length exceeding 10 m but not exceeding 13 mtr direct in ground including excavation refilling with cement concrete 1:3:6 (Cement, concourse sand, 40 mm graded stone nominal size) made of foundation 20 mm X 20 mm continued upto 30 cm above ground level etc. as per required.	Set	2	170000.00	340000.00	0.00	0.00	340000.00

40	Supply, making, testing & commissioning of Maintenance Free earthing Electrode as per RDSO Specification No. RDSO / PE / SPEC / PS / 0109 (Rev-0) 2008 (Unit Capacity 3 KA Primary Conductor, Earth Soul make or similar. Earthing Electrode for earthing in Power supply upto 33 KV Model G 503 length = 3000 mm , Outer Shell dia. 50 mm. Outer shell thickness = 3.25 mm. , Inner Shell dia. 25 mm. , Inner Shell thickness 3.25 mm , Terminal size 30 x 10/12 x 12 Galvanisation outer shell 80-100 Micron , Inner Shell 200-300 micron, Diameter 25 mm. and Electrode diameter - 50 mm. x 2000 mm as per Sl. No. 01 of Item No. 8-1-2-7 of RDSO Specification) and connecting to the equipment with 40 x 6 mm GI strip 10 mtrs with chamber complete in all respect as per direction of site engineer . Earthing Electrode compound both should be tested by CPRI. Make Required	Each	6	22378.00	134268.00	0.00	0.00	134268.00
41	Supply, fixing, testing and commissioning of triple pole GOS suitable to operated on 3 phase 11 KV AC supply of 400 Amp. Cap. 4 insulator type with DO fuse unit and operating rod with locking arrangement etc. ISI approved Make - Rastriya Electrical & Engg, National, Jaipuria Brothers	Each	2	17133.00	34266.00	0.00	0.00	34266.00
42	Supply , fixing , testing and commissioning of 11 KV Indoor type heat shrinkable type cable end sealing box suitable to 3 x 70/95/120 Sq. mm. duly ISI approved complete in all respect Make- Denson, Raychem, RPEG	Each	4	10100.00	40400.00	0.00	0.00	40400.00
43	Supply,fixing,testing and commissioning of 11 KV indoor type heat shrinkable type cable end sealing box suitable to 3 x 120-185 sqmm duly ISI approved complete in all respect Make - Denson, Raychem, RPEG	Each	4	10100.00	40400.00	0.00	0.00	40400.00
44	Supply, fixing, testing and commissioning of 11 KV outdoor type heat shrinkable type cable end sealing box suitable to 3 x 120-185 sqmm duly ISI approved complete in all respect Make - Denson, Raychem, RPEG	Each	4	13800.00	55200.00	0.00	0.00	55200.00

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45	Supply, fixing , testing and commissioning of 500 KVA, 11000/ 415 volts step down distribution transformer 3 phase 50 cycles oil immersed naturally cooled (ONAN) core type double wound with cooper conductor having +/- 2.5% to 5.0 % off circuit tapping on HV to vary HV 50/55 degree centigrade temperature rise in oil and winding respectively, high voltage side connected in delta whereas low voltage side connected in star having vector group reference DYN11 with neutral of the secondary winding brought out for earthing pole mounted outdoor type having porcelain bushings on HV and LV sides complete with first filling of oil as per ISS:355 and other fittings and accessories as per ISS:2026 Make:ABB	Each	1	675000.00	675000.00	0.00	0.00	675000.00
46	Supply of XLPE LT Armoured aluminium cable 4x 25 sqmm	Mtrs	1000	89.00	89000.00	0.00	0.00	89000.00
47	Supply of Ding-Dong Call Bell. Make-Anchor,EPP,JJ,Arkaylite	Each	118	83.39	9840.49			9840.49
48	Fixing, Testing and Commissioning of Ding-Dong Call Bell	Each	118	9.27	1093.39			1093.39
49	TOTAL							8402096.73
50	NET TOTAL							8402096.73

END OF TENDER DOCUMENTS