

**EDFC FIELD UNIT-KOLKATA-CIVIL/EDFC
TENDER DOCUMENT**

Tender No: KKK-EN-QTR-DHN-I-PH-I-R

Closing Date/Time: 20/06/2024 15:00

CGM/DFCCIL/Kolkata acting for and on behalf of The President of India invites E-Tenders against Tender No **KKK-EN-QTR-DHN-I-PH-I-R** Closing Date/Time 20/06/2024 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Balance work for Construction of Railway staff quarters with electrification in Koderma station of Dhanbad division of East Central Railway under Jurisdiction of Chief General Manager/DFCCIL/Kolkata unit		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	20/06/2024 15:00	Date Time Of Uploading Tender	29/05/2024 14:58
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	80940639.71	Tendering Section	JHARKHAND
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	1618800.00	Validity of Offer (Days)	120
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	6 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	06/06/2024	Are Joint Venture (JV) firms allowed to bid	No
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-Non-Schedule Item							335725.98	Above/ Below/Par
1	Please see Item Breakup for details.				335725.98	AT Par	335725.98	
	Description:- Non Schedule Items							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-Electrical Work							9929111.02	Above/ Below/Par
1	Please see Item Breakup for details.				9929111.02	AT Par	9929111.02	
	Description:- Electrical Work							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B1-General Item							35734400.09	Above/ Below/Par
1	Please see Item Breakup for details.				28183926.25	26.79	35734400.09	
	Description:- General work (E.C. Railway USSOR 2012)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B2-Wood Work (E.C. Railway USSOR 2012)							5946328.16	Above/ Below/Par
1	Please see Item Breakup for details.				4690273.04	26.78	5946328.16	
	Description:- Wood Work (E.C. Railway USSOR 2012)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B3-Pipeline& Sanitary Work (E.C. Railway USSOR 2012)							7297631.62	Above/ Below/Par
1	Please see Item Breakup for details.				5698603.48	28.06	7297631.62	

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Description:- Pipeline & Sanitary Work (E.C. Railway USSOR 2012)

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B4-Road Work (E.C. Railway USSOR 2012)							1707457.12	Above/ Below/Par
1	Please see Item Breakup for details.				1327211.13	28.65	1707457.12	
Description:- Road Work (E.C. Railway USSOR 2012)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B5-Supply of Cement (E.C. Railway USSOR 2012)							16934238.33	Above/ Below/Par
1	Please see Item Breakup for details.				14674383.30	15.40	16934238.33	
Description:- Supply of Cement (E.C. Railway USSOR 2012)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B6-Reinforcement & Structural Steel (E.C. Railway USSOR 2012)							3055747.39	Above/ Below/Par
1	Please see Item Breakup for details.				2178941.38	40.24	3055747.39	
Description:- Reinforcement & Structural Steel (E.C. Railway USSOR 2012)								

3. ITEM BREAKUP

Schedule	Schedule A-Non-Schedule Item					
Item- 1	Non Schedule Items					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	NS 2	Drilling and sinking of deep tube well of size 250x200mm dia in all classes of rail including hard rock by water jet crossing, pneumatic rtg machine including supplying and sinking of standard high density polyethene (UPVS) casing pipe of size 225 mm in loose stata extended minimum 01 (one) meter inside hard rock to prevent collapsing of bore. The bottom bore have should be size 200 mm clear internal dia for a minimum depth of 100 m below ground level. The rate shall include supplying and fixing MS cap top for bore well, labour, machinery, materials consumable leading ,loading- unloading lead liftin all respect complete. The rate shall also include development of bore by compressor and testing of yield form three days continuously with minimum5000 GPH submersible pump. The pump will be supplied by contractor for testing the yield.	Each	1.00	335725.98	335725.98
					Total	335725.98
Schedule	Schedule C-Electrical Work					
Item- 1	Electrical Work					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Supply, Fixing, connection & testing of LED light fitting 1X18W,T-8, 4' long, complete with inbuilt LED driver, Make - Crompton, Havells, Bajaj, Polycab or similar (LED Luminarie of the makes as specified above should be as per RDSO's specification for Energy efficient LED based luminaire unit for indoor lights to be used in Indian Railway offices and buildings. (Fixing of fitting to be done with proper clamping arrangement as per the site requirement and connection to be done with 1.5 sqmm single core copper conductor FRLS by tapping from sub main line including supply of ceiling rose and wires and PVC flexible pipe) (The complete system of LED lights (including Driver etc) shall be guaranteed for satisfactorily performance and manufacturing defects for period of 60 months from the date of commissioning or 72 months from the date of supply, whichever is earlier.(Reference: Railway Board's letter no.2006/Elect(G)/150/5 dated 27.03.15).	Numbers	385.00	1168.29	449791.65
2	2	Supply of smart LED lamp 9 watt base B-22 input voltage 240V AC(minus 30 percent and plus 20 percent) frequency 50HZ,power factor greater than 0.95,luminous flux(lm) greater than 100, CCT-6500K,Cri greater than 80,beam angle greater than 240 deg,life span greater than 25000 hrs. Operating temp 0 deg to C to (plus) 60 deg C, surge protection up to 2 KV,luminous maintenance (luminous flux decrease less than and equal to 10 percent) warranty 03 years. Lamp shall be meet all safety requirement as per IS:16102(part-1) and performance requirement as per IS:16102(part-1) (The complete system of LED lights (including Driver etc) shall be guaranteed for satisfactorily performance and manufacturing defects for period of 60 months from the date of commissioning or 72 months from the date of supply, whichever is earlier.(Reference: Railway Board's letter no.2006/Elect(G)/150/5 dated 27.03.15)	Numbers	716.00	58.46	41857.36
3	3	"(a) Wiring of light point with PVC insulated, sheathed & stranded single core copper conductor(FRLS) 1.5mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with proper plastering of the wall with supply & fixing of switch, ceiling rose/angular batten holder etc.(make Havells, anchor, Legrand, Slemens, L&T, or C&S)	Numbers	321.00	209.36	67204.56
4	4	(b) Wiring of light point with PVC insulated, sheathed & stranded single core copper conductor(FRLS) 1.5mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC (without PVC pipe in concealed with proper excavation and MS box)) and refilling the wall with proper plastering of the wall with supply & fixing of switch, ceiling rose/angular batten holder etc.(make Havells, anchor, Legrand, Slemens, L&T, or C&S)	Numbers	780.00	151.88	118466.40
5	5	(a)Wiring of C- Fan/Ex-Fan point with PVC insulated, sheathed & stranded single core copper conductor FRLS 1.5mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with proper plastering of the wall with supply & fixing of switch, ceiling rose .(make-Havells, anchor, Legrand, Slemens, L&T or C&S) on surface of wall with ECC including supply and fixing of switch and ceiling rose.	Numbers	94.00	309.51	29093.94

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6	6	(b) Wiring of C- Fan/Ex-Fan point with PVC insulated, sheathed & stranded single core copper conductor FRLS 1.5mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC (without PVC pipe in concealed with proper excavation and MS Box) and refilling the wall with proper plastering of the wall with supply & fixing of switch, ceiling rose .(make-Havells, anchor,Legrand, Slemens, L&T or C&S) on surface of wall with ECC including supply and fixing of switch and ceiling rose.	Numbers	300.00	252.03	75609.00
7	7	Supply,& fixing of Metal body Exhaust Fans (non-capacitor type) No of poles -4 & sweep size 300 mm (Make-Usha,Havells/crompton, Bajaj or similar)	Numbers	158.00	1603.94	253422.52
8	8	Supply of super efficient BLDC ceiling fan having sweep size 1200mm, 5 starrating , Motor type BLDC, Energy consupction -26W Warranty: 24 Months, Make-Bajaj, Orient, Usha.	Numbers	236.00	2690.42	634939.12
9	9	Fixing & commissioning of of 1200 mm sweep ceiling Fan with modular type electronic fan regulator and all other accessories. (Make as per explanatory note).	Numbers	236.00	149.48	35277.28
10	10	Supply of mini fan regulator, rotary step, 240v,50Hz,100W (make Anchor/Havells/ similar	Numbers	236.00	352.10	83095.60
11	11	(a) Wiring of plug point with PVC insulated, sheathed & stranded single core copper conductor FRLS 1.5mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with proper plastering of the wall with supply & fixing of 5Amp plug & socket switch (make-Havells, Anchor, Legrand, L&T, Seimens or C&S)	Numbers	420.00	185.29	77821.80
12	12	(b) Wiring of plug point with PVC insulated, sheathed & stranded single core copper conductor FRLS 1.5mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in (without PVC pipe in concealed with proper excavation and MS Box)) and refilling the wall with proper plastering of the wall with supply & fixing of 5Amp plug & socket switch (make-Havells, Anchor, Legrand, L&T, Seimens or C&S)	Numbers	132.00	127.81	16870.92
13	13	(a) Wiring of power plug point 15 Amp with PVC insulated, sheathed and stranded single core, copper conductor FRLS 4mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with supply & fixing of 15Amp Power Plug & Socket flush type, 5 in 1 including controlling switch.(make-Havells, Anchor, Legrand, L&T, Seimens or C&S)	Numbers	170.00	275.09	46765.30
14	14	(b) Wiring of power plug point 15 Amp with PVC insulated, sheathed and stranded single core, copper conductor FRLS 4mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in (without PVC pipe in concealed with proper excavation and MS Box) and refilling the wall with supply & fixing of 15Amp Power Plug & Socket flush type, 5 in 1 including controlling switch. (make-Havells, Anchor, Legrand, L&T, Seimens or C&S)	Numbers	540.00	217.62	117514.80
15	15	Wiring of sub-Main Line with FRLS copper wire single core size 6 mm ² multistrand with PVC pipe concealed with proper excavation and refilling the wall with proper plastering. (Wire Make-Havells,anchor, Finolex, Polycab Mescab)	Numbers	588.00	70.52	41465.76
16	16	Wiring of Main Line with FRLS copper wire single core size 10mm ² multistand with PVC pipe in concealed with proper excavation and refilling the wall with proper plastering. (Wire Make-Havells,anchor, Finolex, Polycab, Mescab)	Numbers	712.00	97.99	69768.88

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17	17	"Fixing, connection, testing & Supply of MCB Distribution Board 8-way (2-incomer ,6-outgoing),double door,IP-43-protection conforms to IS:8623-1&3, MCB 32A, DP, 10 KA, B-Curve, conforms to IS:60898 - 1 No as incoming, MCB 10A, DP, 10 KA, C-Curve, conforms to IS:60898 3 Nos as outgoing. Make - L&T, Havells, Legrand (Fixing of Distribution Board to be done with proper clamping arrangement or in concealed in the wall as per the site requirement and connection to be done with suitable conductor including supply of PVC flexiable pipe)	Numbers	76.00	4507.07	342537.32
18	18	"Fixing, connection, testing & Supply of MCB Distribution Board 4-way 8+12 ,double door,IP-43-protection, with supply of MCB 63A, TPN, 10 KA, B-Curve, conforms to IS:60898 -02 Nos as incoming & MCB 20A, DP, 10 KA, B-Curve, conforms to IS:60898- 06 Nos as outgoing. Make - L&T, Havells, Legrand, Havells, C & S (Fixing of Distribution Board to be done as per the site requirement (normally concealed) and connection to be done with suitable conductor including supply of PVC flexiable pipe)	Numbers	13.00	10977.64	142709.32
19	19	(a)Wiring of call bell point with PVC insulated sheathed and standard single core copper conductor 1.5mm2 (FRLS) (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper plastering of the wall with supply & fixing of call bell and push switch etc.(make-Havells, Anchor, L&T, greatwhite, ABB, Seimens or C&S)	Numbers	18.00	316.83	5702.94
20	20	(b) Wiring of call bell point with PVC insulated sheathed and standard single core copper conductor 1.5mm2 (FRLS) (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC (without PVC pipe in concealed with proper excavation and MS Box) with proper plastering of the wall with supply & fixing of call bell and push switch etc.(make-Havells, Anchor, L&T, greatwhite, ABB, Seimens or C&S)	Numbers	60.00	259.35	15561.00
21	21	Supply, fixing, testing and commissioning of Electronics type single phase kWh Meter with LCD display, 5A- 30A, 230V	Numbers	80.00	648.13	51850.40
22	22	Fixing ,connection,testing of Electronic Energy meter along with supply and fixing of iron board size 8" X 12" and sunmica top sheet in concealed with excavation of the wall and refilling the wall with proper plastering with 01 nos porcelian kit-kat fuse unit 32A.(Meter will be supplied by railway)	Numbers	80.00	452.67	36213.60
23	23	Supply, fixing and drawing of service connection by GI pipe 14' long 2" dia with bend to shape including supply and fixing of 2-pin MS angle bracket, size 50x50x6mm 3' long with shackle insulator and fixing with suitable clamp nuts, bolts (Make G.I-Tata, Jindal, Bansal)	Numbers	15.00	1305.51	19582.65
24	24	Supply & fixing of Busbar Chamber 4-way 100A (Make Havells/C&S/L&T) (Fixing with proper excavation and refilling the wall with proper re-plastering of the wall)	Numbers	15.00	10631.64	159474.60
25	25	Testing, commissioning, installation and supply of MCCB,100A, 35KA, four pole, with thermal magnetic release with suitable MCCB enclosure. Fixing to be done as per the site requirement under supervision of site incharge including connection with crimping of cable ends with aluminium lugs of required sizes (Make -Indo asian, C&S, Havells, L&T)	Numbers	14.00	13924.76	194946.64

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26	26	ISI marked four core circular armoured cross linked polyethylene (XLPE) LT insulated cable. PVC outer sheathed armoured with galvanised round steel wire or steel strip and with aluminium conductor suitable for rated voltage 1100 volts, grade conforming to IS:7098 [part-1]-1988 with adm. no. 1,2 and 3 [reaffirmed 2005] size 4*25 sq. mm. The firm will have to submit type test report as per IS from NABI accredited lab alongwith the tender. Type test report should not be more than 10 years old on the date of bid opening.	Metre	1526.00	108.77	165983.02
27	27	ISI marked four core circular armoured cross linked polyethylene (XLPE) LT insulated cable. PVC outer sheathed armoured with galvanised round steel wire or steel strip and with aluminium conductor suitable for rated voltage 1100 volts, grade conforming to IS:7098 [part-1]-1988 with adm. no. 1,2 and 3 [reaffirmed 2005] size 4*120 sq. mm. The firm will have to submit type test report as per IS from NABI accredited lab alongwith the tender. Type test report should not be more than 10 years old on the date of bid opening.	Metre	1100.00	377.78	415558.00
28	28	ISI marked four core circular armoured cross linked polyethylene (XLPE) LT insulated cable. PVC outer sheathed armoured with galvanised round steel wire or steel strip and with aluminium conductor suitable for rated voltage 1100 volts, grade conforming to IS:7098 [part-1]-1988 with adm. no. 1,2 and 3 [reaffirmed 2005] size 4*70 sq. mm. The firm will have to submit type test report as per IS from NABI accredited lab alongwith the tender. Type test report should not be more than 10 years old on the date of bid opening.	Metre	1735.00	262.36	455194.60
29	29	XLPE HT cable standard company circular Aluminium conductor screened 11 KV, 3 core 120 sq mm XLPE (E) insulated, insulation screened with extruded semi conducting compound in combination with copper tape inner sheathed of PVC tape galvaniz0ed steel flat strip armoured and overall PVC sheathed cable conforming to IS : 7098/II/85. The firms will have to submit type test report as per IS from NABL accredited lab along with the tender. Type test report should not be more than 10 years old on the date of bid opening.	Metre	600.00	1514.19	908514.00
30	30	Cable crossing across railway track/pucca road by boring hole at depth of 02 mtr by using 01(one) nos 100mm dia GI pipe (medium grade) with accessories. GI pipe with accessories will be supplied by the contractor.	Metre	150.00	2234.50	335175.00
31	31	Trenching, laying and back filling of XLPE cable	Metre	5800.00	74.05	429490.00
32	32	Supply of octagonal pole (dip galvanised in single dip average 70 micron), 6m long, top dia 70mm, bottom dia 135mm sheet thickness 3mm in single section with base plate (220x220x12mm(LxBxT) with 700mm long single arm bracket and 4 nos.16mm dia x 600mm long (100mm thread projection) foundation bolts, complete with smart pack junction box with 6A MCB & stud terminals (for mounting inside base plate) and internal wiring for terminal to fitting with 2x2.5 sqmm cable of reputed make, Make-Bajaj, Bansal, Jindal, Transrail lighting LTD, Gammon Group.	Numbers	44.00	20395.96	897422.24
33	33	Erection and casting of foundation for octagonal/tubular pole with earth excavation, with cement concrete (1:3:6) and muffing of base foundation, as per manufacturers drawing and dimension as required under the supervision of site incharge.	Numbers	44.00	3133.39	137869.16
34	34	Supply of LED Street Light Fitting 100W with pressure die cast aluminum housing, Heat resistance toughened glass IP66 protection, Better optics for uniform distribution. (Make- Havells, Crompton, Bajaj)	Numbers	44.00	5022.41	220986.04

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35	35	Fixing of Street Light, with PVC insulated S/core stranded alum. Conductor 2.5mm ² and connection & supply of GI pipe of 30mm 4ft long bend (to suit the street light fitting) as per site requirement and fixing the same with supply of suitable clamp, nut, bolt and washer.	Numbers	44.00	413.86	18209.84
36	36	"Supply, installation, testing & commissioning of Floor mounted LT Panel (415V AC, 3Ph, 4-wire, 50 Hz with IS tolerance) consisting with MCCB-400A 4P,50KA, with Microprocessor Based release - 1 set as Incoming and MCCB-200A,4P,50KA, with TM Release - 4 Sets, MCCB-100A,4P, with TM Release - 2 Sets as outgoing. Degree of protection: IP-54, made of CRCA steel sheet (load bearing member- 2mm thick, non load bearing member - 1.6mm thick, gland plate - 3mm thick), Powder coated paint finish with necessary surface pretreatment @ 40<45@ 70 microns), Copper Busbar for phase & neutral - 50mm x 10mm size and for earth - 50mm x 6mm size, covered with PVC coloured coated heat shrinks sleeves, Bottom cable entry with glands, Approx. size of panel - 1900mm x 2275mm x 440mm) (Make: LT Panel-Authorised system house of L&T, C&S, Schneider, MCCB & its accessories - L&T, C&S, Schneider, CT, Indicating lamps, Selector switches etc - ISI Approved)"	Numbers	2.00	455359.61	910719.22
37	37	500 KVA,11KV/415V step down outdoor type plinth mounted distribution transformer,3 phase 50HZ oil immersed naturally cooled(ONAN),core type double wound with copper conductor OFF circuit tap changer in 5 step i.e plus 5 percent ,plus 2.5percent ,N minus 2.5 percent minus 5percent high voltage connected in delta whereas low voltage side connected in star having vector grouping DYn 11 with neutral of secondry winding through out for earthing maximum current density should be 2.5 amp.sq.mm maximum flux density 1.6 tesla having cable boxes on high volatage and low voltage sides compleate with transformer confifuring on IS:1180 Part-1. 2014 or latest, feeling of oil as per IS:355 make Mirzapur Elect. industries Ltd. ,ABB transformer, NGG Power or approved company	Numbers	1.00	921653.16	921653.16
38	38	Installation, testing & commissioning of out door type 500 KVA 3-phase 11KV power transformer including making of foundation/platform (3x3x1m) by providing rail pieces on top including centrifuging of transformer oil, earthing of transformer body by 35x6mm GI strip to main earthing mat.	Numbers	1.00	21727.88	21727.88
39	39	Transportation of 2nd hand rail pole 36 feet long ,from the point of delivery to site of erection and erection of the same with cement concrete foundation ratio 1:3:6	Numbers	2.00	3417.20	6834.40
40	40	Scrapping, cleaning & painting of rail pole with 2-coats of Red Oxide primer for entire pole then 2-coatrs of alum. Paint from top up to 5ft above the ground level and 2-coats of Green/Black paint up to 5ft from the ground level	Numbers	2.00	293.21	586.42
41	41	Aluminium Conductor galvanised steel wire reinforced CONDUCTOR SIZE IN SQ MM: 50,AL. WIRE SIZE IN MM: 6/3.35,STEEL WIRE	Kilometre	2.00	39981.06	79962.12
42	42	Aluminium Conductor galvanised steel wire reinforced CONDUCTOR (ACSR) SIZE IN SQ MM: 100, confirming to IS 398 Part 4	Kilometre	0.50	85801.99	42901.00
43	43	Only stringing/Drawing and Tensioning of ACSR conductor of size , and binding of conductor with insulators .	Kilometre	2.50	2772.10	6930.25
44	44	Erection of Guard wire , including supply of GI wire having 02 nos, bearer wires of 4/6 SWG (GI) and provision of lacings with 8-SWG(GI), 1st lacing from the support structure being at 1- Mtr and subsequent lacings at 4-meter apart.	Kg	100.00	91.32	9132.00

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45	45	Supply & erection of stay assembly 6 ft long 3/4" dia including anchor plate (Size 15"x15"x3/16" guy wire rope with cement concrete foundation of ratio 1:3:6 including fixing of the complete set	Numbers	7.00	801.37	5609.59
46	46	Supply, Fabrication and fixing on the pole of MS Channel /angle bracket, top clamp, bracing, Guard bracket etc as per Sr.DEE(G) Drg. No. EL/SK/08-80 and Drg No. EL/T/3-76 and as per requirements including bolts, nuts and washers.	Kg	884.00	110.92	98053.28
47	47	Supply & fixing of Gang Operated Switch vertical type, triple pole air brake outdoor type with dropout fuse unit 400A capacity, suitable for 11KV, complete with 3-insulator, mounted type on suitable base complete with operating rod and locking arrangement including supply and fixing of padlock of Godrej make with key	Numbers	2.00	7526.29	15052.58
48	48	"Installation, testing commissioning & Supply of Submersible Pump set 3000 GPH x 250ft head (5 star) Similar to KSB Model UQD+UMA 1/G150, 182/10+6/22 (S/D), Motor Rating- 7.5 HP, 5.5KW, 3-phase, including installation, testing, commissioning and lowering of the pump in the bore well with clamping of pump & motor with black steel pipe by tag welding and clamping of submersible cable through out the length of the lowering (Acceptable Make: Shakti PUMPS (INDIA) Ltd./KSB/CRI"	Numbers	1.00	67560.02	67560.02
49	49	"Installation, testing, commissioning & Supply of 20HP Automatic Star/Delta starter with (1) Pump protection relay (C & S mpro-200@ 45<45@E) (2) Programmable time switch (Automatic ON/OFF purpose) (3) LVM with SPP and phase Seq. complete with other electrical accessories e.g voltmeter (0-500V), Ammeter (0-50A), selector switches etc. including wiring. (Make- L&T, Siemens, C&S) "	Numbers	1.00	51100.75	51100.75
50	50	Supply of GI pipe 2" dia heavy gauge 'C' class, with socket including fixing (Acceptable make: Tata, Jindal, Bansal)	Numbers	15.00	601.15	9017.25
51	51	Installation, testing commissioning & Supply of submersible copper cable, insulated, sheathed, flat type 3-core 4mm ² , Water Proof conforming to IS: 694 (Make: Polycab/Havells/Finolex)	Metre	82.00	189.87	15569.34
52	52	Supply of GI long bends 2" dia, heavy gauge 'C' class, 90 degree, including fixing (Make: TATA/JINDAL/BANSAL)	Numbers	2.00	320.49	640.98
53	53	Supply & fixing of non- return valve/check valve 2"/2.5" dia (Make: TATA/JINDAL/BANSAL)	Numbers	1.00	1136.69	1136.69
54	54	Supply of sluice valve 2"/2.5" dia including fixing (Acceptable make: ISI approved)	Numbers	1.00	950.39	950.39
55	55	"Making of Earthing pit 15' deep with Copper plate of size 600 mm x 600 mm x 3.15 mm with its top from ground level complete with 20 mm dia GI pipe fitted with alternate layers charcoal and salt at least 150 mm thick around, funnel for watering and one earthing lead 20 mm x 5 mm copper strip in GI pipe 30 mm medium gauge, masonry/housing with CI hinged cover plate with locking arrangement complete in all respect. (Copper strip up to ground level to be supplied)."	Numbers	6.00	8484.65	50907.90
56	56	Provision of Earthing as per IS 3043 (1987) or latest	Numbers	90.00	4873.21	438588.90
57	57	"Supply of HT Pin insulator 11 KV, complete with metallic and non-metallic parts, including nuts, bolts and washers. (Accepted Makes: Mayank/Bharat/Jayshree) ."	Numbers	12.00	450.85	5410.20
58	58	Supply of HT disc insulators, 11 KV complete with metallic parts with fitting (Accepted Makes: Mayank/Bharat/Jayshree)	Numbers	15.00	655.57	9833.55
59	59	Supply & fixing of 'DANGER' Board complete with nut & bolts written for 33KV/11KV	Numbers	15.00	141.69	2125.35

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60	60	Supply of 5 KA lightning Arrester (Line type) suitable for 11KV line as per IS: 3070 latest including testing and commissioning.	Numbers	2.00	3314.26	6628.52
61	61	Supply of GI pipe 4" dia, Medium gauge 'B' class including fixing with suitable clampnuts, bolts etc as per requirement	Numbers	2.00	710.01	1420.02
62	62	Supply, making, erection, testing and commissioning of cable indetermination with heat shrinkable jointing kit (Out door) complete with all accessories including lugs suitable for 3 core 120 sq.mm XLPE aluminium conductor cable of 11 KV grade etc (Make: 'm' Seal, Cab Seal, Yamuna Gases Chem. Ltd.)	Numbers	4.00	8329.02	33316.08
63	63	Supply and fixing of LT Cross arm bracket, made of MS angle of size 50mmx 50mmx 6mm, 4ft 6 inches long complete with 04 nos. LT pin/shackle insulators with suitable clamps, nuts, bolts and washers.	Numbers	8.00	474.74	3797.92
					Total	9929111.02
Schedule	Schedule B1-General Item					
Item- 1	General work (E.C. Railway USSOR 2012)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		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				
1	011011	All kinds of soils	cum	3329.98	93.54	311486.61
2	011040	Extra for manual compaction of earthwork, where permitted, with rammers	cum	3329.98	7.40	24641.87
3	012010	Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly	cum	3329.98	10.20	33965.83
4	014010	Dressing Surface (average excavation or filling upto 15 cm) including removing vegetation in all kind of soil. Payment against this item is to be made only if it is not included in earth work item	10 Sqm	509.17	62.30	3172.15
5	021070	Loading/Unloading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones , rubble stones, laterite, coal, surkhi, dry mortar, sand , moorum, earth, manure or sludge, ashes, lime etc., including lead up to 50m and stacking into/from trucks, trailers or wagons	cum	3484.90	38.66	134726.12
		Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level :				
6	031011	1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size)	cum	560.11	2813.60	1575925.50
		Providing and laying in position M 20 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				
7	041011	All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc.	cum	445.75	3341.60	1489514.86
8	041012	All work in buildings above plinth level upto floor two level.	cum	286.29	3619.33	1036188.84

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		Centering and shuttering including strutting, propping etc. and removal of form for :				
9	042011	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	389.56	138.30	53875.46
10	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	970.95	230.28	223591.06
11	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	657.61	201.54	132534.32
12	042015	Columns, pillars, , posts and struts	Sqm	786.87	282.30	222133.40
		Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge.				
13	043015	In slabs for drain covers, manhole covers, flue tops etc.	cum	159.95	3735.88	597554.01
14	046010	Extra for RCC work in superstructure above floor two level for every floor or part thereof.	cum	286.29	295.30	84541.44
		Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in :				
15	051017	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	195.94	2880.95	564478.94
		Brickwork with clay fly ash FPS bricks of class designation 75 in superstructure above plinth level upto floor two level. In:				
16	055076	Cement mortar 1:6 (1 cement: 6 coarse sand).	cum	1245.64	2761.72	3440108.90
17	055080	Extra for exposed brickwork / clay fly ash brickwork in superstructure above floor two level, for every floor or part thereof.	cum	622.82	268.14	167002.95
		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				
18	072022	Hollock wood or locally available comparable species of country wood (to be listed by respective railway). - Kiln seasoned & chemically treated. 15 mm thick	Sqm	133.12	1054.38	140363.28
		Providing and fixing paneling and/or glazing in panelled and/or 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				
19	072037	Glazing with float glass panes 4mm thick (10kg/sqm)	Sqm	303.11	352.99	106993.39
		Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete				
20	074232	Fixed to opening/ wooden frames with rawl plugs screws etc.	Kg	9852.85	84.72	834733.45
		Providing and fixing float glass panes with 12mm wooden beading including removal of old broken panes and old wooden beading wherever necessary				
21	074313	Heavy sheet glass panes 5.5mm thick (13.75 Kg/sqm)	Sqm	189.70	725.20	137570.44

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		Providing and fixing 1mm thick M.S. sheet door shutter with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer				
22	081201	Using M.S. angles 40x40x6mm for diagonal braces	Sqm	69.90	2323.49	162411.95
		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				
23	081291	Hot finished welded type tubes	Kg	12660.67	104.52	1323293.23
		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				
24	081412	In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works	Kg	6104.53	87.45	533841.15
		Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS:1285, anodised transparent or dyed to required shade according to IS:1868 (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle. Aluminium snap beading for glazing/ panelling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately)				
25	082011	For fixed portion	Kg	137.20	340.06	46656.23
		Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary) of average thickness 25 mm including ramming sub grade :				
26	091032	Flat brick	Sqm	4091.61	237.25	970734.00
27	091090	Laying cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) of thickness 40 to 100mm as under layer of flooring	cum	106.80	3198.75	341626.50
		Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete				
28	095012	200x300 mm	Sqm	2458.94	615.26	1512887.42
		Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete				
29	095021	Of Group B-II Clause 5.1 (for abrasion resistance) of IS:15622 (Ceramic Floor Tiles) of size 300x300mm	Sqm	739.62	545.42	403403.54
30	095026	Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm	Sqm	3684.69	1016.16	3744234.59

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31	095040	Extra over basic items for using rectified tiles when specifically ordered	Sqm	739.62	57.15	42269.28
		Kota stone slab flooring of size up to 60x60cm 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				
32	096072	25mm thick	Sqm	466.79	1090.12	508857.11
33	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	551.00	859.42	473540.42
34	096090	Extra for nosing in steps and treads of kota stone slab.	Sqm	317.52	141.46	44916.38
		Extra for making grooves up to 5 mm deep in Kota stone for tread, sills etc. of width				
35	096101	3mm to below 6 mm	Sqm	317.52	84.60	26862.19
36	096110	Extra for kota stone flooring in steps and treads not exceeding 30cm in width	Sqm	317.52	164.89	52355.87
		Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels				
37	099035	Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger	Sqm	143.22	3615.48	517809.05
38	109060	Water proofing of roofs and exposed concrete surfaces using polymeric waterproofing compound by cleaning and drying the surface; applying two coats (DFT of 200-300 micron) of translucent brown coloured phenolic resin based single component high performance polymeric waterproofing compound @ 0.6 litre per square metre, with demonstrable properties of resistance to water and acid; spraying a layer of dry coarse sand on the second coat when still wet; removing excess sand on the following day; permitting the coatings to cure and dry naturally for 3-7 days; providing a 12 mm thick cement-sand (1:4) cover plaster; curing the plaster; the treatment shall be impermeable under a waterhead of 20m (removal of existing damaged waterproofing system, PCC, Lime Terracing etc., if any, to be paid extra under separate item).	Sqm	1571.10	264.82	416058.44
		12 mm cement plaster of mix -				
39	111012	1:6 (1cement: 6fine sand)	Sqm	3589.69	62.50	224355.88
		15 mm cement plaster on the rough side of single or half brick wall of mix -				
40	111022	1:6 (1cement: 6 fine sand)	Sqm	9696.50	72.02	698341.93
		12 mm cement plaster finished with a floating coat of neat cement of mix -				
41	111071	1:3 (1cement: 3fine sand)	Sqm	2606.73	74.66	194618.46
		Cement plaster to ceiling of mix -				
42	111151	6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	4068.24	53.56	217894.93
43	112040	Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete	Sqm	17328.28	93.02	1611876.70

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44	115080	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications with two or more coats applied @ 1.25ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr/10sqm	Sqm	21083.40	76.35	1609717.67
45	116110	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3m or part thereof	Sqm	1924.11	19.76	38020.41
Applying Priming Coat :						
46	121011	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	4425.12	23.53	104123.07
47	121150	Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work	Sqm	5921.97	46.67	276378.34
48	161010	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of un-serviceable materials and then disposing of by spreading and neatly leveling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/ and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure). (Additional lead, if any will be paid as per rates in the Earth work Chapter)	cum	33.51	74.80	2506.40
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)						
49	161041	Screened through sieve of I.S. designation 20mm	cum	27.92	105.64	2949.89
50	161090	Spreading of sludge, dump manure/ farm manure/animal dung manure and good earth in required thickness (cost of sludge, dump manure/farm manure or/ and good earth to be paid separately)	100 Sqm	55847.30	16.25	9075.19
Supplying & Grassing with grass in rows 7.5cm apart in either direction including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately)						
51	161115	Selection No.1 (Grass)	100 Sqm	55847.33	586.98	327812.66
Shrubs						
52	162244	Hibiscus rosa sinensis of height 45-60 cm in earthen pots of size 20cm	Each	108.00	42.74	4615.92
53	171210	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc. by applying cement slurry mixed with water proofing cement compound as per IS 2645 in layers a) 1st layer of slurry of cement @ 0.488kg/ sqm mixed with water proofing cement compound @ 0.253 lit/Sqm, allowed to air cure for 4hours.(b) 2nd layer of slurry of cement @ 0.242kg/ sqm mixed with water proofing cement compound @ 0.126 lit/Sqm, allowed to air cure for 4 hours followed with water curing for 48hours.Rate includes preparation of surface, treatment, sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. Rendering/ plastering as protective layer, if required will be paid separately	Sqm	300.00	157.18	47154.00
54	252140	Local sand / pit sand/yamuna sand for filing purposes	cum	577.22	607.18	350475.83
55	253730	Anodised Aluminium hanging type door stopper	Each	840.00	32.32	27148.80
					Total	28183926.25
Schedule	Schedule B2-Wood Work (E.C. Railway USSOR 2012)					
Item- 1	Wood Work (E.C. Railway USSOR 2012)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	071012	"Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position : Sal wood"	cudm	11324.40	78.37	887493.23
2	072015	"Providing and fixing panelled/glazed or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S. butt hinges with necessary screws excluding, panelling/glazing which will be paid for separately :Kail, venteak, pillamarudhu or locally available comparable species of good country wood (to be listed by respective railway) - 35mm thick"	Sqm	251.86	1361.13	342808.76
3	072142	"Providing and fixing to IS:2202 Part-1 marked flush door shutter decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3-ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :30mm thick including ISI marked stainless steel butt hinges with necessary screws"	Sqm	523.47	2121.41	1110488.13
4	073042	Providing and fixing 25mm thick cup board shutters, with prelaminated flat pressed 3 layer particle board conforming to IS:12823 Grade-I, having one side decorative lamination of approved shade and other side balancing lamination including second class teak wood lipping 25x12mm thick with necessary screws and nickel plated bright finished MS piano hinges complete With commercial veneering on both sides	Sqm	222.00	2029.68	450588.96
5	076013	Providing and fixing ISI:12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size :75mmx47mmx1.8mm	Each	3360.00	30.28	101740.80
6	076014	Providing and fixing ISI:12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size :50mmx37mmx1.5mm	Each	630.00	19.54	12310.20
7	078013	Providing and fixing ISI marked aluminum butt hinges ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :100mmx75mmx4mm	Each	576.00	86.56	49858.56
8	078021	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :300mmx16mm	Each	1056.00	264.70	279523.20
9	078033	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete : 200mmx10mm	Each	480.00	78.50	37680.00
10	078034	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete :150mmx10mm	Each	2304.00	68.74	158376.96
11	078061	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete :125mm	Each	960.00	53.90	51744.00
12	078062	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete :100mm	Each	2496.00	58.92	147064.32

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13	078130	Providing and fixing factory made P.V.C. door frame of size 50mmx47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitered at corners and joined with 2 nos. of 150mm long brackets of 15mmx15mm M.S. square tube, the vertical door profiles to be reinforced with 19mmx19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65mm/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge	Metre	642.26	417.09	267880.22
14	078140	Providing and fixing to existing door frames 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mmx19mm for styles and 15mmx15mm for top & bottom rails. MS frame shall have a coat of steel primers. MS frame covered with 5mm thick heat moulded PVC Foam sheet 'C' channel as per drawing given in IR Standard Specifications complete in all respect	Sqm	161.77	2579.79	417332.63
15	081180	Providing and fixing in position collapsible steel shutters with vertical channels 20mmx10mmx2mm and braced with flat iron diagonals 20mmx5mm size with top and bottom rail of T-iron 40mmx40mmx6mm with 40mm dia. steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles and hold fasts including applying a priming coat of approved steel primer	Sqm	5.75	3240.06	18630.35
16	081213	Supplying and fixing rolling shutters of approved make as per IS:6248, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire spring grade no. 2 and M.S. top cover of required thickness for rolling shutters :80mmx0.90mm M.S. laths with 0.90mm thick top cover	Sqm	5.50	1210.52	6657.86
17	081220	Supplying and fixing rolling shutters of approved make as per IS:6248, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire spring grade no. 2 and M.S. top cover of required thickness for rolling shutters : Providing and fixing ball bearing for rolling shutters	Each	2.00	469.85	939.70
18	082012	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built-up standard tubular and other sections of approved make conforming to IS:733 and IS:1285, anodised transparent or dyed to required shade according to IS:1868 (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle. Aluminium snap beading for glazing/panelling, C.P. brass/stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing & panelling to be paid for separately): For openable/sliding portions and fixing hinges / pivots, PVC/neoprene gasket required and making provision for fixing of fittings. (Fittings shall be paid for separately)	Kg	669.58	353.56	236736.70

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19	082031	"Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item)" With float/frosted glass panes of 4mm thickness (weight not less than 10.0 kg/sqm)	Sqm	154.00	729.99	112418.46
					Total	4690273.04
Schedule	Schedule B3-Pipeline& Sanitary Work (E.C. Railway USSOR 2012)					
Item- 1	Pipeline& Sanitary Work (E.C. Railway USSOR 2012)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	131052	"Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; SDR 7.4 UV stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including fixing the pipe with clamps at 1.00m spacing in. This includes cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls etc. PN-16 Pipe, 20mm OD"	Metre	970.20	169.04	164002.61
2	131064	"Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; UV stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge : External Work PN-16 Pipe, 32mm OD (SDR-7.4)"	Metre	1607.16	236.77	380527.27
3	131068	"Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; UV stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge PN-16 Pipe, 75mm OD (SDR-7.4)"	Metre	1036.80	1095.56	1135876.61
4	131158	"Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. : External Work : 80mm dia. nominal bore"	Metre	288.00	760.35	218980.80
5	131182	Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge :-32mm Gate Valve	Each	192.00	638.95	122678.40
6	131193	Providing and fixing PP-R Brass Ball Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge 9/27/2019:-32mm Ball Valve	Each	96.00	1340.62	128699.52
7	132101	Providing and fixing gun metal non-return valve of 80mm nominal bore approved quality (screwed end) : Horizontal	Each	12.00	3962.22	47546.64
8	132180	Providing and fixing C.P. brass bib cock, 15mm nominal bore of approved quality conforming to IS:8931	Each	380.00	409.49	155606.20
9	132210	Providing and fixing C.P. brass stop cock, 15mm nominal bore, (concealed) of standard design and of approved make conforming to IS:8931	Each	384.00	384.65	147705.60
10	136131	"Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work) : 15mm nominal bore"	Each	288.00	115.38	33229.44

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11	136133	"Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work) : 25mm nominal bore"	Each	288.00	167.57	48260.16
12	136150	Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI:12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	Litre	86400.00	6.57	567648.00
13	137062	Supplying and fixing on water tanks etc. slotted Water Indicator Board with M.S. Pulley ball bearing type phosphorus bronze twisted wire, wood float etc. complete in all respect and in metric units. The rate includes fixing at all heights : More than 1.25m long	Each	2.40	1573.25	3775.80
14	151011	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron 'P' or 'S' trap, 10 litres 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 : White Vitreous China Orissa pattern W.C. pan of size 580mmx440mm with integral type foot rests	Each	86.00	3253.40	279792.40
15	151022	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litres 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 : W.C pan with ISI marked black solid plastic seat and lid	Each	78.00	2997.12	233775.36
16	151074	Providing and fixing wash basin with C.I./M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls, wherever required :White vitreous china flat back wash basin size 550 mmx400mm with single 15mm C.P. brass pillar tap	Each	86.00	1767.28	151986.08
17	152021	Providing and fixing Stainless Steel AISI-304 (18/8) kitchen sink with 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 : 510mmx1040mm bowl depth 250mm	Each	86.00	4128.44	355045.84
18	152083	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete Semi-rigid pipe 40mm dia.	Each	288.00	96.40	27763.20
19	152122	Providing and fixing mirror of 5.5mm thickness of float Glass (of approved Quality) required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing : Rectangular shape 453mmx357mm (outer dimension)	Each	192.00	826.95	158774.40
20	153011	Providing and fixing soil, waste and vent pipes : 100mm dia. sand cast iron S&S pipe as per IS:1729	Metre	192.00	640.09	122897.28
21	153091	Providing and fixing single equal plain junction of required degree with access door, insertion rubber wash 3mm thick, bolts and nuts complete : 100mmx100mmx100mm sand cast iron S&S as per IS-1729	Each	96.00	479.76	46056.96
22	153322	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arrangement of approved quality colour and make : 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gm	Each	192.00	524.29	100663.68
23	153330	Providing and fixing PTMT shelf 440mm long, 124mm width and 36mm height of approved quality, colour and make weighing not less than 300gm	Each	192.00	436.09	83729.28

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24	153380	Providing and fixing C.P. brass Soap Dish Holder having length of 138mm, 102mm wide, 75mm high with concealed fittings arrangements weighing approx. 110 gm	Each	288.00	189.72	54639.36
25	153390	Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. weight 270 gm	Each	96.00	349.18	33521.28
26	153493	Providing and fixing PVC connector 15mm size with non-corrosive PTMT couplings in both ends : 15mm dia. 600mm long	Each	288.00	96.35	27748.80
27	154010	Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete	Metre	1591.00	264.69	421121.79
28	154070	Providing and fixing 110mmx110mmx5mm PVC plain branch (single unequal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts complete including jointing and cost of spun yarn and sand etc. complete	Each	96.00	135.93	13049.28
29	154100	Providing and fixing 110mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete	Each	192.00	94.71	18184.32
30	171420	Supplying, fitting, fixing & installing including boring of 40mm dia. hand tube well assembly India Mark-II having total depth of 50m with the following components as per IS:9301 : i) Hand pump (single acting) India Mark-II galvanised as per IS:9301-1990. ii) Brass strainer mesh type made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40mm dia. (2 lengths of each 1.83m connected with G.I. socket). iii) C.I. cylinder with G.M. parts India Mark-II 65mm dia. x 0.45m long as per IS:9301-1990. iv) G.I. casing pipe 100mm dia. medium quality ISI marked 18m long. contd... contd..... v) G.I. pipe 40mm dia. medium quality ISI marked 28.35m long. vi) 32mm dia G.I. pipe (riser) medium quality ISI marked 17m long. vii) 12mm dia. bright bar electro galvanised connecting rod, 3m long each as per IS:9301 of length as required. viii) all accessories as per IS:9301-90 such as G.I. reducing socket 100mm x 40mm, C.I. plug cutter 40mm, base plate, M.S. nuts & bolts etc. The work also includes priming, development and testing of the yield (which should be sufficient enough) for seven days with all labour, material, tools and plants complete. ix) 40mm dia. G.I. ISI marked medium quality hanging pipe to the extent of 17 m. x) all accessories such as C.I. plug cutter 40mm, base plate, M.S. nuts & bolts etc., as required . The work also includes priming & development and testing of the yield (which should be sufficient enough) for seven days with cost of labour and material, all tools and plants complete in all respect	Each	8.00	51914.64	415317.12
					Total	5698603.48
Schedule	Schedule B4-Road Work (E.C. Railway USSOR 2012)					
Item- 1	Road Work (E.C. Railway USSOR 2012)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	231010	Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50m	Sqm	1094.40	38.41	42035.90

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2	231020	Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade	Sqm	1094.40	1.50	1641.60
3	231031	Providing & laying each layer of flat brick soling hand packed & joints filled with ordinary sand : With well burnt bricks Class 7.5 designation	Sqm	1094.40	182.54	199771.78
4	231041	Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete : Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size	cum	316.80	1925.10	609871.68
5	232010	Surface dressing on new surface with paving bitumen of grade A-90/S-90 of approved quality using 2.25 kg of bitumen. per sqm with 1.65 cum of stone chippings 13.2mm nominal size per 100sqm of road surface including consolidation with road roller of 6 to 8 tonne capacity etc. complete	Sqm	1036.80	160.58	166489.34
6	233011	Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS:8887-1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification :On W.B.M. @ 0.4kg/sqm	Sqm	1036.80	22.20	23016.96
7	233012	Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS:8887-1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification : On bituminous surface @ 0.25kg/sqm	Sqm	1036.80	15.47	16039.30
8	233031	With paving asphalt 80/100 heated and then mixed with solvent at the rate of 70 gram per kg of asphalt	Sqm	1036.80	153.43	159076.22
9	235010	Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on 180micron sieve) with bitumen using 128 kg of bitumen of grade 80/100 bitumen and 0.60cum of fine aggregate per 100sqm of road surface including rolling and finishing with road roller all complete. Note - This should not be operated along with Hot mix carpeting	Sqm	1036.80	48.09	49859.71
10	237070	Providing and laying dry brick edging of full brick width and half brick depth including excavation, refilling/ramming and disposal of surplus earth lead upto 50m.	Metre	691.20	85.95	59408.64
					Total	1327211.13
Schedule	Schedule B5-Supply of Cement (E.C. Railway USSOR 2012)					
Item- 1	Supply of Cement (E.C. Railway USSOR 2012)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	033063	Pozzolana Portland Cement	MT	2292.55	6400.90	14674383.30
					Total	14674383.30
Schedule	Schedule B6-Reinforcement & Structural Steel (E.C. Railway USSOR 2012)					
Item- 1	Reinforcement & Structural Steel (E.C. Railway USSOR 2012)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	045014	Supplying reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete - High yield strength deformed bars	Kg	33803.00	64.46	2178941.38
					Total	2178941.38

4. ELIGIBILITY CONDITIONS

Standard Financial Criteria

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of V/N or V whichever is less; where, V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Form 2B, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have satisfactorily completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i)Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii)Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii)One similar work costing not less than the amount equal to 60% of advertised value of the tender Note: 1. The tenderers shall submit requisite information as per Form 2A, along with relevant documents.	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- Construction of any building on framed RCC structure	No	No	Not Allowed

5. COMPLIANCE

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Documents to be enclosed with the TECHNICAL BID as per Clause1.3.2(b) of Part-I of Chapter-III of Tender Document	No	No	Not Allowed
1.1	Offer letter complete as per Form-1 of Tender Document	No	Yes	Allowed (Mandatory)
1.2	Tenderer's Technical credentials in accordance with Para 1.3.13 (i)(A)of Part-I, Chapter-III (Preamble & General Instructions to Tenderers): As per Form No. 2A of Tender Document	Yes	Yes	Allowed (Mandatory)
1.3	Tenderer's Financial credentials in accordance with Para 1.3.13 (i)(B) of Part-I, Chapter-III (Preamble & General Instructions to Tenderers): As per Form No. 2B of Tender Document	Yes	Yes	Allowed (Mandatory)
1.4	Applicant's Party Information Form: As per Form 2D of tender Document	No	Yes	Allowed (Mandatory)
1.5	Certificates for authenticity of documents/ Format for Affidavit: As per Form 22 of Tender Document	Yes	Yes	Allowed (Mandatory)
1.6	Format of Integrity pact: As per Form 20 of Tender Document	Yes	Yes	Allowed (Mandatory)
1.7	Details of Earnest money in accordance with Para 1.3.8 of Part-I, Chapter-III (Preamble & General Instructions to Tenderers)	Yes	Yes	Allowed (Mandatory)

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1.8	An undertaking that he is not blacklisted or debarred by Railways or any other Ministry or Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was or is a partner/member. Concealment or wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.: As per Clause 1.3.6 of Part-I, Chapter-III (Preamble & General Instructions to Tenderers)	Yes	Yes	Allowed (Mandatory)
1.9	Documents to be Submitted Along with Tender as per Clause 1.3.6.2 of Part-I, Chapter-III (Preamble & General Instructions to Tenderers)	Yes	Yes	Allowed (Mandatory)
1.10	A copy of the tender papers including amendments duly signed and scanned or digitally signed by the tenderer on each and every page in token of his having studied the tender papers carefully shall be attached with the tender	Yes	Yes	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TenderDocumentBalanceWorkKodermaQtr.pdf	Tender Document

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Induswww Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: JOY KARMAKAR

Designation : DYPM/Civil/Kolkata