

**EDFC FIELD UNIT- ALD-WEST-S AND T/EDFC
TENDER DOCUMENT**

Tender No: DFC-PRYJ-W-STMC-22-01

Closing Date/Time: 10/10/2022 15:00

DyCPM/S and T/DFCCIL/ALD-W acting for and on behalf of The President of India invites E-Tenders against Tender No **DFC-PRYJ-W-STMC-22-01** Closing Date/Time 10/10/2022 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.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

Name of Work	Signalling and Telecommunication maintenance, replacement/refixing works, supply of minor spares and hiring of manpower, from DFCC Chainage Km 507.693 (Excluding New Bhaupur) to DFCC Chainage Km 278.155 (Excluding New Karchana) section including junction link lines from IR Bhimsen station to New Bhimsen station, IR Sujatpur station to New Sujatpur station and IR Rooma station to New Kanpur station of Eastern Dedicated Freight Corridor (EDFC) under DFCCIL PRYJ(W) Unit for two years		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	10/10/2022 15:00	Date Time Of Uploading Tender	17/09/2022 16:48
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	74751300.03	Tendering Section	SNT PRYJ W
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	1495100.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	24 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	26/09/2022	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-Schedule of Approximate Quantities & Rate (BoQ)							74751300.03	
1	1	2740.00	Per Conductor	16.88	46251.20	AT Par	46251.20	
	Description:- Termination of Outdoor Cables (Main Cables /tail cables, through ARA/Disconnect type terminals) at both ends in location boxes, cable termination rack in relay room, station building, generator room etc. The item includes dressing of cables and wires with dressing threads, provision of ferrules/tags etc. as per standard practice. All material (except terminals) required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relay Room, DG Room, ASM Room etc under supervision and instructions issued by Engineer/incharge of the work.							
2	2	5480.00	Numbers	20.70	113436.00	AT Par	113436.00	
	Description:- Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry. The work shall be carried out a per instructions of Engineer/ Incharge of work.							
3	3	5480.00	Numbers	220.38	1207682.40	AT Par	1207682.40	
	Description:- Supply of Disconnect Terminal block for four conductors with screwing cage/clamp type, sliding switch disconnect, as per RDSO spec. RDSO/SPN/189/2004 ver 2.0 or latest or as per instructions of Engineer/Incharge of the work, for each conductor size up to 2.5 sq. mm, equivalent of M6 terminals. Each terminal block equipped with two markers, on top and bottom, an end plate, two end clamps and adequate length of rails for fitting terminal blocks.							
4	4	3000.00	Numbers	14.08	42240.00	AT Par	42240.00	
	Description:- Supply of Non deteriorating type, Round head type, glass fuse as per Spec No IRS: S -78/92 with latest amendments, 0.6A/2A/4A/6A/8A/10A rating capacity.							
5	5	29.00	Numbers	6579.27	190798.83	AT Par	190798.83	
	Description:- Supply of Phenolic laminated Sheet/Hylem Sheet, resin bonded, grade P3 in standard size of 1220 X 1220 x 10 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied.							
	6	25233.00	Metre	73.84	1863204.72	AT Par	1863204.72	

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6							
	Description:- Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom as per RDSO sketch No. SDO/CABLE LAYING/003, issued vide RDSO document no. RDSO/SI/G/2010 Version 1.1 dated 04.02.2014 or latest, alongside the track in normal soil/strata (including soft rock), conforming to distances as per cable route plan and refilling and ramming of loose soil. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on DFCCIL and instructions of DFCCIL Engineer at site. In case the full depth is not available, there shall be proportionate payment but only after the approval of minimum APM/JPM/DyPM officer level.						
7	7	20.00	Kilometre	9249.44	184988.80	AT Par	184988.80
	Description:- Laying of HDPE duct as per the approved cable route plan in the excavated trenches/other protected works/RCC channel etc. including all accessories like end caps, collars, bends, couplers etc. The ends of the duct to be sealed with end plugs till OFC blowing is done. Important: Note: There are 2 HDPE in each Trench- T1 & T3. Laying of 2 HDPE ducts in same trench will be considered as one unit of the work						
8	8	5894.00	Metre	7.82	46091.08	AT Par	46091.08
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes etc. as per the site requirement and as per approved cable route plan. This also includes laying of cables in track crossings & road crossings. (Cables will be megged before and after its laying by contractor under supervision of DFCCIL Representative and he will submit the megging report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes.						
9	9	265197.60	Numbers	4.94	1310076.14	AT Par	1310076.14
	Description:- Supplying and placing of one layer of quality bricks of standard size and of B grade of the local make and spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm)						
10	10	263.88	cum	331.95	87594.97	AT Par	87594.97
	Description:- Cross trench for identification of the route of existing signalling and telecomm cables.						
11	11	42.00	Metre	181.60	7627.20	AT Par	7627.20
	Description:- Cutting of all types of platforms/road crossing and trenching and excavation to a width and depth of 300 mm x 300 mm, laying of DWC/HDPE/GI pipe in the trench and refilling and concreting it afterwards as per original condition. In hard rocky ground area , cables will be laid normally on layer of soft earth of 0.05 mtrs thickness previously deposited at bottom of the trench . The cutting to be filled and finished with cement/concrete, as per the RDSO drawing no.SDO/Cable laying/008, issued vide RDSO document no. RDSO/SI/G/2010 Version 1.1 dated 04.02.2014 or latest.						
12	12	2417.00	Metre	704.49	1702752.33	AT Par	1702752.33
	Description:- Horizontal direction drilling (HDD)/Trenchless digging/machine drilling without damage to surface road /track for laying/insertion of HDPE/GI/DWC pipe. The bore shall be done at the depth of minimum 1400 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road.Note:- DWC/HDPE/GI Pipe Supply is not covered under this item. Contactor shall provide all material required for work and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Payment of boring shall be made only after DWC/HDPE/GI pipe is laid in the bore.						
13	13	72.04	Metre	404.96	29173.32	AT Par	29173.32
	Description:- Laying and fixing of Medium class GI pipes 100 mm dia (4.5 mm thickness) as per IS 1239 (Part 1) 2004 or latest with coupling on culverts/bridges, perforated at a distance of 20 cm or less with 10 mm dia hole, or at any other locations as decided by Site Engineer. The GI pipe is to be filled with chattered compound. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. The laying and fixing to be done as per site incharge instructions and approval.						
14	14	65.85	Numbers	750.48	49419.11	AT Par	49419.11
	Description:- Supply of Double Walled Corrugated (DWC) Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non-flame propagating type in 6 meters straight length and of size 120 mm outer dia.& 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One coupler with suitable rubber O-ring should be supplied with every 6m of pipe length. (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified.						
15	15	256.20	Metre	1238.20	317226.84	AT Par	317226.84
	Description:- Horizontal Boring/Manual moling without damage to surface road /track for laying/insertion of DWC/GI/HDPE pipe. The bore shall be done at the depth of minimum 1400 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. Note:- DWC/HDPE/GI Pipe Supply is not covered under this item. Contactor shall provide all material required for work and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Payment of boring shall be made only after DWC/HDPE/GI pipe is laid in the bore.						
16	16	10.50	cum	3520.54	36965.67	AT Par	36965.67

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16	Description:- Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation, ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate will not exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor.						
17	17	24.00	cum	1931.44	46354.56	AT Par	46354.56
	Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides of bricks with thickness 20 mm each end with contractor's own B Class bricks. It also includes excavation, grouting, bolting etc. wherever required. B Class bricks, sand and cement (ISI mark) will be supplied by the Contractor.						
18	18	33.00	Numbers	13729.43	453071.19	AT Par	453071.19
	Description:- Splicing of 24 core optic fibre cable and making the splicing joint with contractor's own machine and tools. Joint should be prepared in such a way that the top of the enclosure should be at a depth of minimum 1.2 mtr and the enclosure should be covered with soft soil and bricks. Splice loss of each fibre should be within acceptable limits, preferably 0.05 dB.						
19	19	26.00	Numbers	3842.67	99909.42	AT Par	99909.42
	Description:- Supply of thermo shrink jointing kit as per RDSO Specn.No. IRS: TC 77-2012 (Rev.3.0) with (Amdt.-1 to 3) or latest, suitable for 6 Quad/jelly filled cables for straight through/derivation joints. It includes supply of all the accessories, without transformer.						
20	20	26.00	Numbers	1923.52	50011.52	AT Par	50011.52
	Description:- Installation of thermo shrink jointing kit as per RDSO Specn.No. IRS: TC 77-2012 (Rev.3.0) with (Amdt.-1 to 3) or latest, suitable for 6 Quad/jelly filled cables for straight through/derivation joints. It includes supply of all the accessories, without transformer.						
21	21	33.00	Numbers	6294.17	207707.61	AT Par	207707.61
	Description:- Supply of 24 fiber optical fiber cable straight joint enclosure (SJC) complete with all accessories along with enclosures with heat shrinkable splice protection sleeve as per RDSO spec. RDSO/SPN/TC68/2014 Revision 1.0, Amndt. 1.0 or latest. Splice losses in no case should be more than 0.1 dB.						
22	22	38.60	Kilometre	19537.36	754142.10	AT Par	754142.10
	Description:- Blowing/drawing of OFC cable in the HDPE pipe duct already provided in the trench and protective work. The cable shall be laid only after the successful completion of the DIT (Duct Integrity test). The DIT should be certified by the DFCCIL engineer at site. All the equipments/machinery required shall be arranged by the contractor.						
23	23	52.15	Numbers	1738.80	90678.42	AT Par	90678.42
	Description:- Strengthening of foundation of signals, Full/Half location boxes, by carrying out earth work around the foundation, ramming of refilled earth, carrying out masonry work from bottom of earth work using country stones & cement masonry to prevent the earth from slipping down the bank. This also includes supply of required masonry materials.						
24	24	24.00	Numbers	14033.54	336804.96	AT Par	336804.96
	Description:- Excavation, casting, curing of foundation and Installation and Erection of Apparatus case Full (App. Case as per RDSO drg. no. RDSO/S-11500 or latest) with contractor's own frame, cement and other material in the ratio 1:3:6. 'E' type lock to be supplied and installed with App. case. This includes filling of location foundations with river bed sand and plastering on top with a mixture of 1:4 of cement and sand. It covers fixing of lamp holder, switch and lamp etc. in Apparatus Case.						
25	25	12.00	Numbers	11809.73	141716.76	AT Par	141716.76
	Description:- Excavation, casting, curing of foundation and Installation and Erection of Apparatus case Half (App. Case as per RDSO drg. no. RDSO/S-11507 or latest) with contractor's own frame, cement and other material in the ratio 1:3:6. 'E' type lock to be supplied and installed with App. case. This includes filling of location foundations with river bed sand and plastering on top with a mixture of 1:4 of cement and sand. It covers fixing of lamp holder, switch and lamp etc. in Apparatus Case.						
26	26	24.00	Numbers	5118.90	122853.60	AT Par	122853.60
	Description:- Fabrication and fixing of phenolic laminated sheet/Hylem sheet of grade P3, minimum 10 mm thick, as per Apparatus case diagram/plan, in location box by providing all fixtures like ARA/Disconnect terminals, fuse blocks, fuses, relays on square bars etc. including fixing of PVC coated string rods at the back side for cable support with contractor's own material like iron angle, nuts, bolts etc. The iron angle for fixing shall be minimum 3 mm thick. This also includes fixing of teak wood shelf minimum 25 mm thick for holding track circuit equipments. The work shall be done as per instructions of Rly engineer at site						
27	27	12.00	Numbers	2776.68	33320.16	AT Par	33320.16
	Description:- Fabrication and fixing of phenolic laminated sheet/Hylem sheet of grade P3, minimum 10 mm thick, as per Apparatus case diagram/plan, in location box by providing all fixtures like ARA/Disconnect terminals, fuse blocks, fuses, relays on square bars etc. including fixing of PVC coated string rods at the back side for cable support with contractor's own material like iron angle, nuts, bolts etc. The iron angle for fixing shall be minimum 3 mm thick. This also includes fixing of teak wood shelf minimum 25 mm thick for holding track circuit equipments. The work shall be done as per instructions of Rly engineer at site. (Apparatus case Half)						

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28	28	15.00	Numbers	1111.09	16666.35	AT Par	16666.35
28	Description:- Dismantling and Releasing of existing Location boxes/Apparatus cases/Jn boxes and other associated S&T fittings.						
29	29	18.00	Numbers	1093.35	19680.30	AT Par	19680.30
29	Description:- Replacement of old signal unit /signal route of main signal. This would include releasing of old unit from top of signal post, erection and mounting of new signal unit over the post including wiring of Main Signal LED/Signal route of main signal as per Technical Specification.						
30	30	7.00	Numbers	364.45	2551.15	AT Par	2551.15
30	Description:- Replacement of old signal unit of shunt signal. This would include releasing of old unit from top of signal post, erection and mounting of new signal unit over the post including wiring of Shunt Signal LED of shunt signal as per Technical Specification						
31	31	21.00	Numbers	1748.45	36717.45	AT Par	36717.45
31	Description:- Dismantling and Releasing of existing Signals (both electrical and Mechanical) and other associated S&T fittings like wheel, pulleys, wires, stakes etc.						
32	32	15.00	Numbers	15444.71	231670.65	AT Par	231670.65
32	Description:- Casting, concreting and curing of foundation for Main Signal Post in the ratio of 1:3:6 as per DFCCIL drawing no. 1/SG/0003 Rev. B or as per instructions of Engineer/Incharge of the work, using standard size of foundation/galvanized anchor bolts complete, required for erection of colour light signal post. Anchor bolts complete should comply with the RDSO drg. no. SA 116 A/M. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for execution of this item, will be arranged/provided by contractor.						
33	33	7.00	Numbers	4195.19	29366.33	AT Par	29366.33
33	Description:- Casting, concreting and curing of foundation for Position Light Shunt Signal as per as per DFCCIL drawing no. 1/SG/0004 Rev. B or as per instructions of Engineer/Incharge of the work using standard size of foundation/galvanized anchor bolts complete, required for erection of shunt signal post. Anchor bolts complete should comply with RDSO drg. no. SA 110 A/M.. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement sand mixture. Aggregate cement, sand and holding down bolts, will be supplied by contractor. Any machines and tools, if required for execution of this item, will be arranged/provided by contractor.						
34	34	15.00	Numbers	6722.46	100836.90	AT Par	100836.90
34	Description:- Erection of CLS Post with base and signal unit on top or on Offset Bracket including erection of auxiliary signals like calling on, shunt signal if any. It includes fixing of all LEDs and wiring of complete signal including route and auxiliary signals, if any. It includes fixing of front and back staging, ladder and guards, signal name plates / boards, with contractor's own brackets and fixing materials. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge.						
35	35	7.00	Numbers	1087.54	7612.78	AT Par	7612.78
35	Description:- Erection of Position Light Shunt signal with Base, Post, Signal unit, complete fixing of LEDs and wiring of full signal. It includes fixing of Number Plates. The work shall be done as per instructions of DFCCIL engineer/Incharge of the work at site.						
36	36	6.00	Numbers	1271.60	7629.60	AT Par	7629.60
36	Description:- Fixing of Junction type Route Indicator on top of signal post and complete wiring, 1-Way/2-Way/3-Way/4-Way/5-Way/6-Way/theatre type.						
37	37	12.00	Numbers	1014.72	12176.64	AT Par	12176.64
37	Description:- Supply, fabrication and fixing of retro-reflective marker/boards/plates as per the following: 'P' marker-Non illuminated, 'AG' marker-Non illuminated, 'A' marker - Non- Illuminated and 'G' marker -Non illuminated as per approved drawing provided by DFCCIL						
38	38	6.00	Numbers	9272.56	55635.36	AT Par	55635.36
38	Description:- Supply, fabrication and fixing of the Calling On board/BSLB board as per DFCCIL approved drawing, on concrete foundation and painting with Retro reflective paint. All work to be carried out as per DFCCIL site engineer instructions.						
39	39	12.00	Numbers	851.35	10216.20	AT Par	10216.20
39	Description:- Supply, fabrication and fixing of Retro-reflective Signal number plates as per DFCCIL approved drawing, on signal post with contractor's own material like clamp, U bolts, nuts etc						
40	40	7.00	Set	528.19	3697.33	AT Par	3697.33
40	Description:- Supply of IRS Type point machine 'D'/'P' bracket insulation complete set consisting of the following: - Plate LH - S-3266-1 No, RH - S-3265-1 No., Plate S-8804- 1 No., Bush - S- 3199 - 4 Nos, Bush S-8813- 2 Nos for. This should be compatible with back locking arrangement provided with installed point machine with spec. (Drg no. RDSO-S-3395 and S-3454 confirming to IRS:-24/2002 or latest RDSO specification.						
41	41	7.00	Set	16883.34	118183.38	AT Par	118183.38

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41									Description:- Fabrication and supply of point rodding (Ground Connection) set for electric point machine (RDSO Type) as per RDSO Drg. No.SA-8800-01, 20-21, 9151-52,9000-01,03-04,9065-66,9101, as applicable. This should be compatible with back locking arrangement provided with installed point machine with spec. (Drg no. RDSO-S-3395 & S-3454 confirming to IRS:-24/2002 or latest RDSO specification.
	42	7.00	Numbers	3561.28	24928.96	AT Par	24928.96		
42									Description:- Supply and fixing of GI bend pipe 50 mm dia., 'B' class, for cable entry into Point machine with all accessories. Note: This item to be operated independently for those points where Point machines are functional but GI bend pipe is not provided. For all other new installation of Point machines, item 06002 of the SOR includes the provision of GI bend pipe. This should be compatible with back locking arrangement provided with installed point machine with spec. (Drg no. RDSO-S-3395 & S-3454 confirming to IRS:-24/2002 or latest RDSO specification.
	43	7.00	Numbers	1748.45	12239.15	AT Par	12239.15		
43									Description:- Dismantling and Releasing of existing Points (both electrical and Mechanical) and other associated S&T fittings.
	44	7.00	Turn-out	4078.86	28552.02	AT Par	28552.02		
44									Description:- Refixing of electrical point machine, ground connection during phase working (Non interlocked working) after removing the existing fitting if any, adjustment if necessary, cable termination, wiring, testing and commissioning of electrically operated point, fixing and connecting point indicator on derail switch if necessary. The work shall be done as per extant practice in DFCCIL and the instruction of DFCCIL Engineer at site
	45	276.00	Day	3712.84	1024743.84	AT Par	1024743.84		
45									Description:- Maintenance of Signalling gears required for execution of BCM/TTM/FRM or any other signalling work which includes: (1) Proper dressing of track lead jumpers as required by the DFCCILs before and after BCM/TTM/FRM machine working. (2) All cables attended during work to be meggared and all damaged cables due to work to be replaced as per requirement of DFCCILs (3) Preparatory work required for the work of Point renewal, removing, fixing, installation and testing of rodding set for point machine including all associated gears of mechanical/electrical points as per direction of DFCCIL representative at site. (4) Any other as decided by DFCCILs. The work shall be completed as per OEM's guidelines and Technical Requirement & Specification by deploying adequate manpower under the supervision of DFC site incharge.
	46	48.00	Numbers	262.18	12584.64	AT Par	12584.64		
46									Description:- Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. Full Case.
	47	23.00	Numbers	148.95	3425.85	AT Par	3425.85		
47									Description:- Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. Half Case.
	48	125.00	Numbers	97.82	12227.50	AT Par	12227.50		
48									Description:- Lettering and Numbering of all S&T gears like Signals, Loc. Boxes, Pt. Machines, TLJBs, Block joints etc. Each item to be taken as one unit. This work will be carried out as per the standard practice or as per site in charges instructions.
	49	48.00	Numbers	779.47	37414.56	AT Par	37414.56		
49									Description:- Painting of two coats of Enamel paint over one coat of Red Oxide primer after scrapping and cleaning of the surface. Paint to be of reputed make Asian/Dulux/Berger or similar. App. Cases inside and outside to be done by Silver colour. (Apparatus Case Full)
	50	23.00	Numbers	708.87	16304.01	AT Par	16304.01		
50									Description:- Painting of two coats of Enamel paint over one coat of Red Oxide primer after scrapping and cleaning of the surface. Paint to be of reputed make Asian/Dulux/Berger or similar. App. Cases inside and outside to be done by Silver colour. (Apparatus Case Half)
	51	35.00	Numbers	1045.23	36583.05	AT Par	36583.05		
51									Description:- Painting of two coats of Enamel paint over one coat of Red Oxide primer after scrapping and cleaning of the surface. Paint to be of reputed make Asian/Dulux/Berger or similar. (Main Signal post, base, unit and complete fittings)
	52	7.00	Numbers	445.71	3119.97	AT Par	3119.97		
52									Description:- Painting of two coats of Enamel paint over one coat of Red Oxide primer after scrapping and cleaning of the surface. Paint to be of reputed make Asian/Dulux/Berger or similar. (Shunt Signal post, base, unit and complete fittings)
	53	14.00	Numbers	329.77	4616.78	AT Par	4616.78		
53									Description:- Painting of two coats of Enamel paint over one coat of Red Oxide primer after scrapping and cleaning of the surface. Paint to be of reputed make Asian/Dulux/Berger or similar. (Point machine and ground connections, Point machine by Black enamel and ground connection by Red oxide)
	54	92.00	Numbers	2173.50	199962.00	AT Par	199962.00		

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54									Description:- Demounting and Replacement/Refixing of Wheel Sensor (Track Device) of Multi-Section Digital Axle Counter (MSDAC)/HASDAC including disconnection and reconnection of tail cable/sensor cable at TLJB/Mushroom, if required. This includes complete removal of Wheel Sensor (mounted on the rail) along with the tail cable/sensor cable under the rail. The Contractor shall ensure the proper alignment of the Wheel Sensor at the time of mounting the new Wheel Sensor. Wheel sensor shall be supplied by DFCCIL. The work shall be completed as per OEM's guidelines and Technical Requirement & Specification under the supervision of DFC site incharge.
55	55	3.00	Set	24382.88	73148.64	AT Par	73148.64		Description:- Supply of a set (2 no.) electrical lifting barrier booms of 9.76 meter each as per DRG RDSO/S 11600. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Inspection: Procurement from RDSO approved supplier.
56	56	6.00	Numbers	1219.14	7314.84	AT Par	7314.84		Description:- Installation of one (01) no. of electrical lifting barrier boom of 9.76 meter each as per DRG RDSO/S 11600. The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Inspection: Procurement from RDSO approved supplier.
57	57	2.00	Set	216571.02	433142.04	AT Par	433142.04		Description:- Supply, Installation, testing and commissioning of Sliding type mechanical Boom barrier (SBB) assembly, 11 to 12-Meter-Long, movement drive mechanism, resetting & supporting stand suitable for Mechanical/Electrical level crossing gate as an emergency arrangement as per drawing no. W1/SG/298 Rev C or as per DFCCIL approved drawing. The sliding boom assembly should be having the provision of 50mmx50mmx50mm angles for the entire length. Boom rest posts should be 10 no per gate or more as per site requirement. Painting should be completely done of all the assemblies/parts of Sliding LC gate.
58	58	2.00	Numbers	10038.63	20077.26	AT Par	20077.26		Description:- Dismantling and Releasing of existing Electrically operated LC gate/Mechanically operated LC gate and other associated S&T fittings. All the released material will be transported to the station/IMD/IMSD.
59	59	4.00	Numbers	15586.54	62346.16	AT Par	62346.16		Description:- Supply and installation of prewired KLCR Box, wooden crank handle lock inside box, with 8 way terminal strips, LEDs of approved type, for fixing of EKT on wooden board inside box for installing KLCRs/EKTs up to 06 no., including supply of all material like board, handle, hinges, glass sheet etc.
60	60	4.00	Numbers	2810.76	11243.04	AT Par	11243.04		Description:- Supply and Installation of Glass fronted Key box for Crank handle etc. It should be done as per site supervisor instructions.
61	61	63.00	Numbers	3944.45	248500.35	AT Par	248500.35		Description:- Supply and installation of earth electrode as per standard practice and as per DFCCIL approved drawing. It includes supply of GI pipe of 3m length. It includes connecting the earth electrode to the equipments which are required to be earthed including digging of earth pit 3 mtr deep and fixing earth electrode pipe, casting of cement concrete enclosure with cover (cover as per drawing no. S&T/CONST/6.3/97. It includes installation of 7 strand GI wires as earth lead wires, supported on MS flat size 5mm x 40 mm, soldering and nut bolt both, one end of both earth lead wire and MS flat to earth electrode and other end to Location boxes, block equipments, power equipments, cable sheath, signals etc. as per site requirement and as per instructions given by engineer incharge.
62	62	24.00	Set	10778.44	258682.56	AT Par	258682.56		Description:- Installation of Unit Maintenance Free Earth to achieve a resistance less than 1 ohm as supplied under item no. 13002 of Chapter 13 of SOR. It includes(i) Digging the earth to the required depth.(ii) Insertion of electrode.(iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor.(v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness.Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip-potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room.GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits.Note: The installation of this item shall be carried out by the contractor as per RDSO Specn.No.RDSO/SPN/ 197 Ver 1.0 or latest. Typical RDSO approved drawings referred in the RDSO specification document are : (i) SDO/RDSO/E&B/001 for typical installation of Earth, (ii) SDO/RDSO/E&B/002 for typical bonding and earthing connections, (iii) SDO/RDSO/EnB/003 for typical arrangement for earth resistance measurements.
63	63	85.00	Numbers	11041.53	938530.05	AT Par	938530.05		Description:- Supply of portable Halon type fire extinguisher, 1 kg capacity, with squeeze grip, valve high pressure discharge, nozzle and fitted with pressure gauge and conforming to IS 111/08 of 1984 or latest and duly charged with halon 1211 (Chloride difluro) in conforming to IS 111070.

**EDFC FIELD UNIT- ALD-WEST-S AND T/EDFC
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64	64	167.54	Metre	30.76	5153.53	AT Par	5153.53
	Description:- Supply and fixing of PVC conduit pipe 25 mm with accessories such as bend, tee, coupling, elbow, saddle, clamp, screw, PVC/ wooden plugs etc. on walls, angle or on rail of platform shelter etc. MS clamp made of 3 mm MS flat to be manufactured and supplied and fixed to clamp the PVC pipe or angle/ rail run of platform shelter. The clamp should be painted with red oxide primer over which two coats of aluminium paint to be given. Where ever necessary jumper holes to be made in wall and above PVC pipe threaded and wall to be repaired to its original condition.						
65	65	3351.00	Kilometre	62.46	209303.46	AT Par	209303.46
	Description:- Loading, Transportation/Carriage and Unloading of various S&T material by a 9 MT truck, from/to the consignee depot to/from various locations, as decided by the DFCCIL. This does not pertain to movement of material required by contractor for the scope of work as defined in the contract which has to be done at the own cost of contractor.						
66	66	15330.00	Man-Days	805.42	12347088.60	AT Par	12347088.60
	Description:- Provision of Maintenance Helper to carry out different Maintenance Activities as per Annexure- A. (Educational Qualification and Experience Requirement As per Annexure-B)						
67	Please see Item Breakup for details.				14628137.04	AT Par	14628137.04
	Description:- Execution of Maintenance activities of Electrically Operated Points (incl. Back drive & Rear locking Device) & KLCR as per Maintenance Schedule (Annexure-D)						
68	Please see Item Breakup for details.				32991116.40	AT Par	32991116.40
	Description:- Execution of Maintenance activities of MSDAC/HASSDAC,UFSBI, Electronic Interlocking, Colour Light Signals, Cables, Location Boxes, EPABX, LC gate Telephone, IPS, Wi-Fi System with NMS, STM-16, STM-4,MUX along with NMSIP phones, Digital Phones, Data Network equipment along with NMS,VHF sets etc. as per Maintenance Schedule (Annexure-D). EI rack at New BPU is also included.						
69	69	72.00	Month	12167.70	876074.40	AT Par	876074.40
	Description:- Execution of Maintenance activities of Power Operated Lifting Barrier and Sliding Boom as per Maintenance Schedule (Annexure-D) (Unit: Per LC per Month)						

3. ITEM BREAKUP

Schedule	Schedule A-Schedule of Approximate Quantities & Rate (BoQ)					
Item- 67	Execution of Maintenance activities of Electrically Operated Points (incl. Back drive & Rear locking Device) & KLCR as per Maintenance Schedule (Annexure-D)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Crossing Station (Unit: Per station per month)	Month	72.00	52032.93	3746370.96
2	2	Junction Station (Unit: Per station per month)	Month	72.00	151135.64	10881766.08
					Total	14628137.04
Item- 68	Execution of Maintenance activities of MSDAC/HASSDAC,UFSBI, Electronic Interlocking, Colour Light Signals, Cables, Location Boxes, EPABX, LC gate Telephone, IPS, Wi-Fi System with NMS, STM-16, STM-4,MUX along with NMSIP phones, Digital Phones, Data Network equipment along with NMS,VHF sets etc. as per Maintenance Schedule (Annexure-D). EI rack at New BPU is also included.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Crossing Station (Unit: Per Station per Month)	Month	72.00	39384.92	2835714.24
2	2	Junction Station (Unit: Per Station per Month)	Month	72.00	93819.37	6754994.64
3	3	Block Section including IR Junction Lines (Unit: Per Block Section per Month)	Month	168.00	139288.14	23400407.52
					Total	32991116.40

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Allowed (Mandatory)

Special Technical Criteria

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Allowed (Mandatory)

5. COMPLIANCE

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Allowed (Mandatory)
2	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)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TenderDocSTMC.pdf	Tender Doc STMC

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial 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.

**EDFC FIELD UNIT- ALD-WEST-S AND T/EDFC
TENDER DOCUMENT**

Tender No: DFC-PRYJ-W-STMC-22-01

Closing Date/Time: 10/10/2022 15:00

Signed By: KRISHNA CHANDRA SWARNKAR

Designation : DYPM/S n T