

**EDFC FIELD UNIT-TUNDLA-S AND T/EDFC
TENDER DOCUMENT**

Tender No: DFC-TDL-SnT-SSMC-22-T004

Closing Date/Time: 04/07/2022 15:00

CGM/DFCCIL/TUNDLA acting for and on behalf of The President of India invites E-Tenders against Tender No **DFC-TDL-SnT-SSMC-22-T004** Closing Date/Time 04/07/2022 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	Repairing, Refixing /Replacement & Maintenance of Signalling and Telecommunication Gears/Equipments, Hiring of manpower and other related work between New Bhaupur to New Khurja Section including OCC Prayagraj of Eastern Dedicated Freight Corridor (EDFC) under CGM/TDL Unit for Two years.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	04/07/2022 15:00	Date Time Of Uploading Tender	13/06/2022 18:29
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	110988108.43	Tendering Section	S AND T
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	705000.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	24 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	20/06/2022	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-(Item-1 to 43) Repairing, Refixing /Replacement & Maintenance of Signalling and Telecommunication Gears/Equipments							10683970.63	
1	1	100.00	Numbers	8627.00	862700.00	AT Par	862700.00	
	Description:- Casting, concreting and curing of foundation of half apparatus cases as per W3/SG/4207 'ver. G' All material such as cement, sand, aggregate and anchor bolt shall be supplied by contractor. Contractor is required to execute all type of repair works of foundation if required during inserting the cable for termination.							
2	2	100.00	Numbers	1342.00	134200.00	AT Par	134200.00	
	Description:- Erection of Apparatus cases (Half) This includes filling of location foundation with river bed sand and plastering on top of the sand.							
3	3	500.00	Numbers	356.00	178000.00	AT Par	178000.00	
	Description:- Supply & fixing of hylam sheet (SIZE 860X100 mm) 10 mm thick, of minimum grade P5, on apparatus case/Location boxes for wiring of signaling circuits and cable termination, fixing on suitable size contractor's angle and string rod for supporting cable on back side, including fixing of terminals/fuses as per location diagram/plan and technical specifications, with drilling of holes on either side of terminals/fuses and other places as required for cable conductor/wires entry and fixing of sheet.							
4	4	15000.00	CORE	14.02	210300.00	AT Par	210300.00	
	Description:- Termination of cable cores on ARA/wago terminal/fuse blocks.							
5	5	100.00	Location Box	312.00	31200.00	AT Par	31200.00	
	Description:- Termination of cables and supporting on string rod, with supply and providing identification tags/ferrulr/tapes with letters on each cable conductor, as per technical specification (Half Apparatus case). This includes all associated works of pulling out the cable from underground.							
6	6	100.00	Location Box	1061.00	106100.00	AT Par	106100.00	
	Description:- Installation of Eqpt. (Relays,resistance, chargers, bulb holders & batteries etc.) & wiring of the same in apparatus cases as per location & circuit diagrams with contractor's own wiring material suitable for 25KV RE area. This also includes supply & installation of Three pole switch & socket 5 A (Anchor make) and Lamp Holders with lamp, two pin, Bakelite type with fixing arrangement at contractor own cost.							
7	7	23334.00	Metre	65.24	1522310.16	AT Par	1522310.16	

**EDFC FIELD UNIT-TUNDLA-S AND T/EDFC
TENDER DOCUMENT**

Tender No: DFC-TDL-SnT-SSMC-22-T004

Closing Date/Time: 04/07/2022 15:00

7									Description:- In all type of soils including soft rock digging of 1.2 Meter deep and 0.3 Meter wide trenches including clearing of roots of trees and bushes and temporary obstruction on the selected route, as per technical specifications and cable route plan. Note: In case where digging of trench up to 1.20 Meter depth and 0.3 meter wide is not possible or bigger size trench is required to lay more cables or loose soil/ muck is encountered, the depth can be reduced / increased as per directions of the Engineer-in-charge of the works, the payment will be decreased/increased proportionate to the depth & width of excavation compared to 1.20 Meter deep and 0.3 Meter wide. This also includes Back filling and consolidating of cable trench first for 5 CM (in case where bricks are to laid over cables) after laying of cables and then complete back filling & Ramming of loose soil as per the technical specifications.
8	8	100.00	Kilometre	6830.00	683000.00	AT Par	683000.00		Description:- Laying of S&T Cables of various cores/pairs/quads in trenches/GI pipes/RCC/DWC pipes/trenching with laying of these including laying of cables in track crossings & road crossings, provision of labels on each cable of coloured plastic adhesive tapes or any other identifiable marker complete with contractor's material to give the cable number at each termination point and meggering of all Cables before and after its laying before termination by contractor under supervision of DFC Representative and submitting the meggering report of each testing, the complete activities to be done as technical specifications
9	9	1334.00	Metre	99.00	132066.00	AT Par	132066.00		Description:- Cutting of all types of road/platforms trenching & excavation to depth of 300 mm x 300mm wide approx. refilling after laying of GI/DWC (To be provided by DFC) pipes and repairing to restore to original condition.
10	10	2247.00	Metre	592.33	1330965.51	AT Par	1330965.51		Description:- Supply Double walled corrugated (DWC) Size of Outer Dia 120 mm / inner dia 103.5 mm, having non flame propagation and anti rodent properties, lectrex/telerex/optirex or similar as per TEC specifications GR/DWC 34/01 IS 14930 part-II, and technical specifications, along with socket/coupler and T joints wherever required hvng IP-67 protection, for underground power/ signalling/ telecommunication cable protection. (Consignee inspection)
11	11	20.00	Kilometre	8613.08	172261.60	AT Par	172261.60		Description:- Supply provision of orange tape 50 cm depth inside as per inst.of site incharge (Consignee inspection)
12	12	2000.00	Metre	1004.00	2008000.00	AT Par	2008000.00		Description:- Horizontal boring under railway track/ road for laying 120 mm dia., DWC (Double Walled Corrugated) pipes at the depth of 1.4 meter to 2.1 meter from formation level (Level of earth below ballast) as per drawing and directed by engineer-in-charge by trenchless technology excluding the cost of DWC. Size of the bore at any location for laying DWC pipes will be decided by Engineer in charge. (a) The cost shall include horizontal boring through any intermediate obstruction, either natural or man made or any bouldry strata. (b) The rate is inclusive of all the materials, equipments and labour required for doing trenchless horizontal boring under the railway track, nothing extra shall be admissible on any account then the rates quoted above. The pipes are to be laid under railway track/ road. All necessary arrangements are to be provided and all precautions are to be taken, so that bore coming out at other end is not deviated from the horizontal level line by more than 250 mm in horizontal or vertical direction. (d) The rates shall be inclusive of detection and protection of underground utilities encountered during boring. The payment for boring shall be made only when DWC pipes are laid in the bore.
13	13	2000.00	Metre	60.26	120520.00	AT Par	120520.00		Description:- Laying of DWC/RCC pipe
14	14	67.00	Numbers	592.00	39664.00	AT Par	39664.00		Description:- Jointing of Sig/Tele/Power cable
15	15	20.00	Kilometre	7196.00	143920.00	AT Par	143920.00		Description:- OFC Cable Laying by manual Pushing/pulling wherever machine working not possible as certified by site engineer.
16	16	40.00	Numbers	23724.67	948986.80	AT Par	948986.80		Description:- Supply of OFC joint enclosure & its installation, splicing of 24 fibre optic fibre complete with all accessories of make TVSE R&M model no. 1500 83-XX or Raychem make model no. FOSE 100-BH-A-SJN-21.34 3M make model no. BPEO-Type 1-24F or 2179CS-24F (from TEC approved sources only) This includes provision of pit of concrete & all other needed material for making pit, splicing & installation of joint enclosure. (Consignee inspection)
17	17	100.00	Numbers	757.00	75700.00	AT Par	75700.00		Description:- Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scraping and cleaning of the surface wherever necessary. Primer and paints both Asian paints are to be supplied by contractor. Location boxes inside & outside surfaces with aluminum paint. Half case
18	18	14.00	Numbers	1219.26	17069.64	AT Par	17069.64		Description:- Painting of Main signal post, signal unit, surface base & complete fitting as per standard practice.
19	19	7.00	Numbers	542.45	3797.15	AT Par	3797.15		

**EDFC FIELD UNIT-TUNDLA-S AND T/EDFC
TENDER DOCUMENT**

Tender No: DFC-TDL-SnT-SSMC-22-T004

Closing Date/Time: 04/07/2022 15:00

19							
	Description:- Painting of Shunt signal post, signal unit, surface base.						
20	20	14.00	Numbers	383.58	5370.12	AT Par	5370.12
	Description:- Painting of point machine with ground connection complete (Pt M/c, TLD boxes, block enamel only outside and ground connection with red oxide).						
21	21	20.00	Numbers	106.86	2137.20	AT Par	2137.20
	Description:- Lettering/Numbering of Signals, Point Machine, Track lead junction Boxes, Block joints, Apparatus Cases etc. (each item to be taken as One Unit). This work will be carried out as per the standard practice or as per site incharge instructions.						
22	22	34.00	Location Box	2301.66	78256.44	AT Par	78256.44
	Description:- Alteration of wiring in existing Apparatus case full/half. This includes all materials in connection with alteration in wiring. All the materials shall be supplied by the contractor at his own cost. This includes sand filling, and masonry work involved. Lettering and painting to be done by the contractor at his own cost. DFC shall supply only relay and relay bases.						
23	23	34.00	Location Box	784.12	26660.08	AT Par	26660.08
	Description:- Dismantling and releasing of location boxes/Apparatus cases/jn. Boxes which includes releasing of terminal boards, relays, terminals, batteries track feed chargers and other concerned fitting installed in the locations and stacking in the IMD KRJN/EKLN						
24	24	14.00	Numbers	12327.92	172590.88	AT Par	172590.88
	Description:- Casting, concreting and curing of foundation for main Signal as per Drg. No. NR/S&T/CON/2.1/97 all material such as anchor bolts, cement, sand aggregate to be supplied by the contractor.						
25	25	7.00	Numbers	3725.77	26080.39	AT Par	26080.39
	Description:- Casting, concreting and curing of foundation for Shunt Signal as per Drg. No.Sig./RRI/30-87. All material such as anchor bolts, cement, sand aggregate to be supplied by the contractor.						
26	26	14.00	Numbers	4697.68	65767.52	AT Par	65767.52
	Description:- Erection of CLS post with s/base and signal unit on top or OFF set bracket, fixing of front and back staging ,ladder and guards, signal name plates/boards if any with contractors own bracket and fixing materials. this also includes erection of auxiliary signals like callingon , shunt signal if any. The work shall be done incld. Auxiliary signal i.e. C-ON, Shunt etc.						
27	27	7.00	Numbers	670.32	4692.24	AT Par	4692.24
	Description:- Erection of shunt signal with surface base, post Signal Unit and fixing of No. Plates. This shall be done as per instructions of DFCC Engineer at site						
28	28	7.00	Numbers	1035.62	7249.34	AT Par	7249.34
	Description:- Fixing of Junction Type Route Indicator 1/2/3/4 way/theater type on the top of the signal post						
29	29	67.00	Numbers	896.73	60080.91	AT Par	60080.91
	Description:- Supply and fixing of A/AG/C/P/G Board as per RDSO Drg.No. SA 23455-56,RST-11445,SA 23476-77 as applicable all material required for the job such as MS angle, nuts and bolts, paint and painting materials will be supplied by the contractor. (Consignee inspection)						
30	30	30.00	Numbers	9660.00	289800.00	AT Par	289800.00
	Description:- Supply and installation of stop Board/BSLB/ warning boards as per drg. No.42380 (Adv) or latest with reflective strip/reflective paper , making foundation as per DFC site engineer complete with contract materials including angle of erection, supply & painting. (Consignee inspection)						
31	31	14.00	Numbers	1475.54	20657.56	AT Par	20657.56
	Description:- Termination of tail cable on Main signal Units and wiring with contractor own material, fixing of LED etc. The work shall be done as per instruction of site engineer.						
32	32	7.00	Numbers	491.00	3437.00	AT Par	3437.00
	Description:- Termination of tail cable on shunt signal Units and wiring with contractor's own materials, fixing of LED etc. The work shall be done as per instruction of DFC engineer at site.						
33	33	7.00	Numbers	603.00	4221.00	AT Par	4221.00
	Description:- Termination of cable in junction Route Indicator 1/2/3/4 way.						
34	34	67.00	Numbers	728.25	48792.75	AT Par	48792.75
	Description:- Supply & fixing of Retro-Reflective number plates of approved type. As per Drg. No. Sig.05/2009 Dtd 02.04.09 or latest drawing issued from DFC (Contractor has to arrange all hardware & other requirement to fix the plate on signal at his own cost.) (Consignee inspection)						
35	35	4.00	Numbers	21358.30	85433.20	AT Par	85433.20

**EDFC FIELD UNIT-TUNDLA-S AND T/EDFC
TENDER DOCUMENT**

Tender No: DFC-TDL-SnT-SSMC-22-T004

Closing Date/Time: 04/07/2022 15:00

35	<p>Description:- Supply, installation and wiring of 'A/AG' Marker LED signal lighting unit on the same post below main signal complete with supply of all materials for work by the contractor viz 'A/AG' marker LED with current regulator, MS angle to house A/AG marker LED 'U' bolt ,other fixtures, nuts and bolts wiring materials etc. Installation will includes laying of cable piece (to be supplied by the Railway) from signal termination JB to 'A' marker unit through inside of signal post or laying cable through signal foundation (by making channel infoundation and inside GI pipe fixed on signal post. Wiring will includes termination of tail cable on 'A/AG' marker supplied will be installed on one signal supply, installation and wiring of one 'A/AG' marker on one signal will constitute one job. (RDSO inspection)</p>						
36	36	100.00	Numbers	100.33	10033.00	AT Par	10033.00
36	<p>Description:- Earth work around location boxes signals etc. where necessary including 50 m lead & 1.5 lift by excavation. The leads be measured from the centre of gravity of excavation to the centre of filling & the lift from means ground level. The earth work around the location/junction boxes shall be up to the plaster level and for width sufficient for the maintainer to attend the box both from front and back side.(Inspection By Consignee)</p>						
37	37	100.00	Numbers	3117.00	311700.00	AT Par	311700.00
37	<p>Description:- Supply and Installation of earth electrode assemble as per Drg. No. DRM/S&T/JHS/214. This also includes fixing of earth electrodes, earthing of S&T apparatus cases along with all equipments and cable armours alongwith soldering at all location as decided by the site engineer of theDFC, signal post etc. connected through cable/GI wire 8SWG supported on MS flat size 5mmX40mm to earth electrode as per Drg. DRM/S&T/JHS/214 and practice on the division suitable brick masonry enclosure to be provided around the earth. The earth value should be less than 10 ohms including the lead wire, should be measured and painted on it. (Inspection by Consignee).</p>						
38	38	27.00	Numbers	6210.61	167686.47	AT Par	167686.47
38	<p>Description:- Fixing of point machine on laid turnout on MBC sleepers fixing of ground connections. Adjustment, wiring and testing with crank handle operations. Removal of ground connection and point machines duly numbered. This will include fabrication and fixing of bend pipes with welded frame for cable entry to machine. The work shall be done as per extant practice on DFC and the instructions of engineer at site.</p>						
39	39	667.00	Numbers	168.27	112236.09	AT Par	112236.09
39	<p>Description:- Plastic cover for 4 Aspect signal unit cover opened from Front side and bottom side and made of black polythene sheet of 100 micron thickness size: 1700mmX460mmX250mm. On back side 75mm wide corner to corner diagonal cross mark of silver colour of 100 micron thickness to be provided tie up cover with signal unit suitable nylon rope of 5mm dia and 4 meter length to be provided on front side & of 1.5 mtr length at centre.Note:- 1. Sample must be approved before bulk supply.2. Dimensions are approximate to the extent of vary +/-5%. (Inspection by Consignee)</p>						
40	40	200.00	Numbers	149.82	29964.00	AT Par	29964.00
40	<p>Description:- Plastic cover for 3 Aspect signal unit cover opened from Front side and bottom side and made of black polythene sheet of 100 micron thickness size: 1300mmX460mmX205mm. On back side 75mm wide corner to corner diagonal cross mark of silver colour of 100 micron thickness to be provided tie up cover with signal unit suitable nylon rope of 5mm dia and 4 meter length to be provided on front side & of 1.5 mtr length at centre.Note:- 1. Sample must be approved before bulk supply.2. Dimensions are approximate to the extent of vary +/-5%. (Inspection by Consignee).</p>						
41	41	34.00	Numbers	131.87	4483.58	AT Par	4483.58
41	<p>Description:- Plastic cover for 2 Aspect signal unit cover opened from Front side and bottom side and made of black polythene sheet of 100 micron thickness size: 1200mmX460mmX205mm. On back side 75mm wide corner to corner diagonal cross mark of silver colour of 100 micron thickness to be provided tie up cover with signal unit suitable nylon rope of 5mm dia and 4 meter length to be provided on front side & of 1.5 mtr length at centre.Note:- 1. Sample must be approved before bulk supply.2. Dimensions are approximate to the extent of vary +/-5%. (Inspection by Consignee).</p>						
42	42	200.00	Numbers	1379.00	275800.00	AT Par	275800.00
42	<p>Description:- Demounting and Remounting of Wheel Sensor (Track Device) of Multi-Section Digital Axle Counter (MSDAC). This includes demounting and removal of Wheel Sensor (mounted on the rail) along with its tail cable under the rail. The Contractor shall ensure the proper alignment of the Wheel Sensor at the time of remounting the Wheel Sensor. The work shall be completed as per OEM's guidelines and Technical Requirement & Specification under the supervision of DFC site incharge.</p>						
43	43	67.00	Numbers	2240.00	150080.00	AT Par	150080.00
43	<p>Description:- Demounting and Replacement of Wheel Sensor (Track Device) of Multi-Section Digital Axle Counter (MSDAC) including disconnection and reconnection of tail cable at TLJB. This includes complete removal of Wheel Sensor (mounted on the rail) along with the tail 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 Contractor shall bring the new wheel sensor from station / IMD/ IMSD to site and shall take the old / released wheel sensor from site to station/ IMD/ IMSD.The work shall be completed as per OEM's guidelines and Technical Requirement & Specification under the supervision of DFC site incharge.</p>						

**EDFC FIELD UNIT-TUNDLA-S AND T/EDFC
TENDER DOCUMENT**

Tender No: DFC-TDL-SnT-SSMC-22-T004

Closing Date/Time: 04/07/2022 15:00

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B- (Item 44) Provisioning of different category of staff to carry out different maintenance activities as per annexure (A) at junction /Crossing stations.(Z class station)							34727341.00	
1	1	15330.00	Man-Days	888.54	13621318.20	AT Par	13621318.20	
Description:- Skilled Staffs								
2	2	16790.00	Man-Days	737.50	12382625.00	AT Par	12382625.00	
Description:- Semi-Skilled Staffs								
3	3	13870.00	Man-Days	628.94	8723397.80	AT Par	8723397.80	
Description:- Unskilled Staffs								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C- (Item 45) Provision of different kind of Staffs at OCC/PYJ (Y class station)							5712804.80	
1	1	4380.00	Man-Days	1041.94	4563697.20	AT Par	4563697.20	
Description:- Skilled Staffs								
2	2	1460.00	Man-Days	787.06	1149107.60	AT Par	1149107.60	
Description:- Unskilled Staffs								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule D- (Item 46) Execution of maintenance activities of electrically operated points as per maintenance schedule.							19727232.00	
1	1	144.00	Per Station per Month	46654.00	6718176.00	AT Par	6718176.00	
Description:- Crossing Station								
2	2	96.00	Per Station per Month	135511.00	13009056.00	AT Par	13009056.00	
Description:- Junction Station								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule E- (Item 47) Execution of Maintenance activates of MSDAC, Color light Signals, Cables, location box, etc. as per maintenance schedule							40136760.00	
1	1	144.00	Per Station per Month	35314.00	5085216.00	AT Par	5085216.00	
Description:- Crossing Station								
2	2	96.00	Per Station per Month	84120.00	8075520.00	AT Par	8075520.00	
Description:- Junction Station including concerned IR Junction station								
3	3	216.00	Per Block Section per Month	124889.00	26976024.00	AT Par	26976024.00	
Description:- Block Section including IR Connecting line								

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading

**EDFC FIELD UNIT-TUNDLA-S AND T/EDFC
TENDER DOCUMENT**

Tender No: DFC-TDL-SnT-SSMC-22-T004

Closing Date/Time: 04/07/2022 15:00

1	As per Tender Document	No	No	Allowed (Mandatory)
---	------------------------	----	----	------------------------

Special Technical Criteria

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

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	As Per Tender Document	No	No	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	SSMCfinaltenderdocforIREPSupdate1_compressed.pdf	Tender Document

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.

Signed By: AMIT KUMAR

Designation : DYPMSnT