

**WDFC FIELD UNIT-AHEMDABAD-S AND T/WDFC
TENDER DOCUMENT**

Tender No: DFC-ADI-SNT-01-2024-25

Closing Date/Time: 09/08/2024 15:00

CGM/DFCCIL/AHMEDABAD acting for and on behalf of The President of India invites E-Tenders against Tender No **DFC-ADI-SNT-01-2024-25** Closing Date/Time 09/08/2024 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	Repairing, Refixing /Replacement & Maintenance of Signalling and Telecommunication Gears/Equipment, Hiring of Manpower and other related work in New Sanand North - New Makarpura Section of WDFC under CGM/DFCCIL Ahmedabad.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	09/08/2024 15:00	Date Time Of Uploading Tender	16/07/2024 20:13
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	20864917.00	Tendering Section	SNTMTCE
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	417300.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	12 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	26/07/2024	Are Joint Venture (JV) firms allowed to bid	No
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Revenue

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-NS Items							20864917.00	
1	1	972.00	cum	271.24	263645.28	AT Par	263645.28	
	Description:- "Digging of 1.2 mtr deep and 0.3 mtr wide trenches in all type of soils, including soft rock as per approved cable route plan and back filling the trench after laying of cables. It includes clearing of roots of trees and bushes and temporary obstructions on the selected cable route, ramming of soil and planting of cable marker at every 50 mtrs and at every location where direction of trench changes. The item includes covering of laid cables by sieved soil upto 5 cm before covering by bricks. Where digging of 1.2 mtr depth is not possible or depth is reduced/increased as per instructions given by engineer incharge then payment will be decreased/increased proportionately to the depth of trench. Note: Cable trenching between Station Limit (i.e. from Distant to Distant Signals) should be done at distance of 3.0 mtrs(minimum) from centre line of track and Outside Station Limit, cable trenching will be done at distance of 5.5 mtrs(minimum) from centre line of track. If above mentioned minimum distances are not available at site then trenching will be done by contractor as per instructions issued by Site Engineer."							
2	2	4500.00	Running Metre	7.82	35190.00	AT Par	35190.00	
	Description:- Laying of S&T cables of various cores/pairs/quads in trenches/GI Pipes/RCC ducts /DWC/HDPE Pipes/Trunking etc, laying of OFC ducts in trenches as per site requirement and as per approved cable route plan. It also includes including laying of cables in track crossing and road crossing. It includes placing of half cut DWC pipes, pre-fabricated ducts and DWC pipes. It also includes provision of labels on each cable of coloured plastic adhesive types or any other identifiable marker to give the cable number at each termination point. The contractor will do meggering of all the cables (main and tail) before laying as well as after laying under the supervision of engineer incharge. Meggering test report of all the cables will be signed jointly by authorised site representative of contractor and site engineer incharge. Note: The length of the cable laid will include length of the cable which have been coiled for terminasion purpose. Half cut DWC, pre fabricated ducts and DWC pipes shall be supplied by DFCCIL.							
3	3	900.00	Per Conductor	10.31	9279.00	AT Par	9279.00	

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	Description:- Termination of Outdoor Cables (Main Cables / Tail Cables) 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 as per standard practice. All material 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 Engr. incharge of the work.						
	4	900.00	Metre	1457.70	1311930.00	AT Par	1311930.00
4	Description:- All work pertaining to horizontal directional drilling (HDD)/Boring and trenchless cableing. It includes supply, transportation and self lubricated HDPE pipe and laying of cables in boring under the track/road by using different sizes of pipes depending on total number of cables will be crossed. The depth of horizontal boring should be minimum 1 mtr from rail flange/road level. This item will be used for track crossing of running lines. By using self-lubricated HDPE pipe of 120mm outer dia and 103.5mm inner dia in the bore and laying of cables in the bore under the track/road. The ground level shall be considered ignoring the bank height of the bank of the road. Contractor shall provide all the 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.						
	5	2.25	Kilometre	13207.80	29717.55	AT Par	29717.55
5	Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work as per approved standard and instructions of site Engineer.						
	6	18.00	Numbers	10593.61	190684.98	AT Par	190684.98
6	Description:- Supply, preparation, splicing and installation of straight joint for 06 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn. G/OJC-02/01 March 99 or latest. Splice losses in no case should be more than 0.1dB						
	7	8.00	Numbers	12900.90	103207.20	AT Par	103207.20
7	Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn. G/OJC-02/01 March 99 or latest. Splice losses in no case should be more than 0.1dB						
	8	36.00	Numbers	15925.14	573305.04	AT Par	573305.04
8	Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March 99 or latest, Splice losses in no case should be more than 0.1 dB.						
	9	36.00	Numbers	17093.09	615351.24	AT Par	615351.24
9	Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March-99 or latest. Splice losses in no case should be more than 0.1 dB.						
	10	36.00	Numbers	4726.56	170156.16	AT Par	170156.16
10	Description:- Supply, preparation, jointing and installation of 4/6 quad/signalling cable along with Heat shrinkable straight through joining kit. All the material required for the work are to be arranged by the contractor himself at his own cost including thermo shrinkable universal Joint kit/Rapid Joint Kit for quad cable(for straight joining) as per RDSO spec IRS/TC77/2012 revision 3 with latest amendment. After joining the cable through test such as insulation test, continuity & loop resistance test, cable losses test etc., to be carried out jointly with DFCCIL site incharge. If any defect or damages observed during jointing, the contractor has to redo the joint free of cost.						
	11	9.00	cum	4299.94	38699.46	AT Par	38699.46
11	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 3.8cm). The aggregate cement and sand will be supplied by the contractor.						
	12	9.00	cum	2086.39	18777.51	AT Par	18777.51
12	Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both side of bricks with thickness 20mm each end with contractors own 'B' class bricks. It also includes excavation, curing, grouting, bolting etc. wherever required. 'B' class Brick, sand and cement(ISI mark) will be supplied by the contractor.						
	13	18.00	Numbers	2762.31	49721.58	AT Par	49721.58
13	Description:- Repairing of Half Case foundation by excavation and casting it with contractor's cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8005 with latest amendment if any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the satisfaction of Site Engineer.						
	14	18.00	Numbers	2762.32	49721.76	AT Par	49721.76
14	Description:- Repairing of Single Case foundation by excavation and casting it with contractor's cement, brick and other materials as per Drawing No. 6-AL-TYP-CW-8006 with latest amendment if any, and as per scope of work. Contractor has to completely break the entire foundation retaining the existing MS frame. The entire work shall be executed by the contractor to the satisfaction of Site Engineer.						
	15	36.00	Numbers	1666.70	60001.20	AT Par	60001.20

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	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 shipping down the bank. This also includes supply of required masonry materials.						
16	16	9.00	Numbers	3221.08	28989.72	AT Par	28989.72
	Description:- Shifting and Installation of Apparatus Case Single (Full) Drawing No-6/BL/TYP/CW/8024/0 with latest amendment, if any.						
17	17	9.00	Numbers	2124.68	19122.12	AT Par	19122.12
	Description:- Shifting and Installation of Apparatus Case (Half) Drawing 6/BL/TYP/CW/8023/0 with latest amendment, If any.						
18	18	9.00	Numbers	1086.37	9777.33	AT Par	9777.33
	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. This also includes bringing new signal unit from station/IMD/IMSD to site and bring back old unit from site to station/IMD/IMSD.						
19	19	9.00	Numbers	3352.46	30172.14	AT Par	30172.14
	Description:- Installation, erection and wiring of CLS unit, Post, Ladder & Base, LED unit including laying out of Tail Cable from Location box. Wiring of CLS unit shall be carried out as per Technical Specification. This also includes Protection of unit from Rain Water. The Material shall be supplied by DFCCIL.						
20	20	4.00	Numbers	991.10	3964.40	AT Par	3964.40
	Description:- Installation, erection and wiring of Junction Type/ "V" Type Route Indicator (LED Type)/Seven Segment Route display Unit. Wiring shall be carried out as per Technical Specification. This also includes Protection of unit from Rain Water. The Material shall be supplied by DFCCIL.						
21	21	4.00	Numbers	1287.41	5149.64	AT Par	5149.64
	Description:- Installation, erection of Shunt Signal Units with base & post. and laying out of tail cable from location box and Wiring of Shunt Signal LED unit as per Technical Specification. This also includes Protection of unit from Rain Water. The Material shall be supplied by DFCCIL.						
22	22	174.00	Numbers	155.11	26989.14	AT Par	26989.14
	Description:- Supply & installation of Plastic cover for four 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 cover diagonal cross mark of silver color of 100 micron thickness to be provided. To tie up cover with signal unit suitable nylon rope of 5mm dia and 4 meter length to be provided on front side and of 1.5 mtr length at center. Note: (1) Sample must be approved from DFCCIL representative before bulk supply. (2) Dimensions are approximate to the extent of tolerance by +/-5% (Inspection by Consignee)						
23	23	190.00	Numbers	2094.22	397901.80	AT Par	397901.80
	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.						
24	24	9.00	Numbers	3724.81	33523.29	AT Par	33523.29
	Description:- Refixing of electrical point machines and ground connection after removing the existing fitting if any, adjustment if necessary, cable terminatoin, wiring, testing and commissioning of electrically operated point, fixing and connecting point indicator on derail switch if necessary. This would include removal of old/existing point machine and fixing of new/overhauled motor. The work shall be done as per extant practice in DFCCIL and instruction of DFCCIL Engineer at site. This would also include bringing the new machines from station/IMD/MSD to site and taking the old / released machines from site to station/IMD/IMSD.						
25	25	1317.00	Numbers	79.24	104359.08	AT Par	104359.08
	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 includes supply of paints of Asian Paints/Nerolac/Dulux/Berger Make. This work will be carried out as per the standard practice or as per site in charge's instructions.						
26	26	244.00	Numbers	232.64	56764.16	AT Par	56764.16
	Description:- Lettering/Numbering Termination particulars, equipment's names etc, legibly and neatly inside location boxes (Full Case). This includes supply of paints of Asian Paints/Nerolac/Dulux/Berger Make. This work will be carried out as per the standard practice or as per site in charge's instructions.						
27	27	218.00	Numbers	134.43	29305.74	AT Par	29305.74

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27	Description:- Lettering/Numbering Termination particulars, equipment's names etc, legibly and neatly inside location boxes (Half Case). This includes supply of paints of Asian Paints/Nerolac/Dulux/Berger Make. This work will be carried out as per the standard practice or as per site in charge's instructions.				
	Please see Item Breakup for details.	476773.68	AT Par	476773.68	
28	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the below mentioned items at Sr. no. 28(1), 28(2), 28(3), 28(4) & 28(5) after scrapping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. The paint and primer should be from Asian Paints/Nerolac/Dulux/Berger. The primer/enamel paints (Aluminium synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970)/(IS 2932 of 1974)				
	Please see Item Breakup for details.	3616543.32	AT Par	3616543.32	
29	Description:- Provision of Multi-tasking staff/Helper to carry out different Maintenance Activities as per Annexure-A. (Educational Qualification and Experience Requirement As per Annexure-B)				
	Please see Item Breakup for details.	3153198.60	AT Par	3153198.60	
30	Description:- Execution of maintenance activities of electrically operated point machine as per Maintenance Schedule (Annexure-D)				
	Please see Item Breakup for details.	9352994.88	AT Par	9352994.88	
31	Description:- Execution of Maintenance Activity of MADAC, Color Light signal, Cables Location Boxes etc. as per Maintenance Schedule (Annexure-D)				

3. ITEM BREAKUP

Schedule	Schedule A-NS Items					
Item- 28	Painting of two coats of synthetic enamel paint over one coat of primer on the below mentioned items at Sr. no. 28(1), 28(2), 28(3), 28(4) & 28(5) after scrapping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. The paint and primer should be from Asian Paints/Nerolac/Dulux/Berger. The primer/enamel paints (Aluminium synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970)/(IS 2932 of 1974)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Apparatus Case Full Size (Outside & Inside)	Numbers	244.00	580.63	141673.72
2	2	Apparatus Case Half Size (Outside & Inside)	Numbers	218.00	593.10	129295.80
3	3	Main Signal Post with Signal units, Surface base and complete fittings as per standard practice	Numbers	174.00	920.59	160182.66
4	4	Shunt Signal post with Signal Unit, Surface base as per standard practice	Numbers	41.00	414.19	16981.79
5	5	Point Machine with ground connections complete (Point Machine with Black Enamel only outside and ground connections with Red oxide)	Numbers	99.00	289.29	28639.71
					Total	476773.68
Item- 29	Provision of Multi-tasking staff/Helper to carry out different Maintenance Activities as per Annexure-A. (Educational Qualification and Experience Requirement As per Annexure-B)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Z/C - Class Station	Man-Month	156.00	23182.97	3616543.32
					Total	3616543.32
Item- 30	Execution of maintenance activities of electrically operated point machine as per Maintenance Schedule (Annexure-D)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Crossing Station	Per Station per Month	36.00	44501.96	1602070.56
2	2	Junction Station	Per Station per Month	12.00	129260.67	1551128.04

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						Total	3153198.60	
Item- 31	Execution of Maintenance Activity of MADAC, Color Light signal, Cables Location Boxes etc. as per Maintenance Schedule (Annexure-D)							
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount		
1	1	Crossing Station	Per Station per Month	36.00	33684.79	1212652.44		
2	2	Junction Station Including associated part of IR Junction Station	Per Station per Month	12.00	80240.12	962881.44		
3	3	Block Section Including IR Connecting Line	Per Station per Month	60.00	119624.35	7177461.00		
						Total	9352994.88	

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

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

5. COMPLIANCE

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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	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

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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	TenderDocument.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: ROOP KISHORE BAGHEL

Designation : DYCPMSNT2