

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

Tender No: DFC-All-SnT_REPAIR_MAINT

Closing Date/Time: 03/10/2025 17:00

GM/Co./DFCCIL/AJMER acting for and on behalf of The President of India invites E-Tenders against Tender No **DFC-All-SnT_REPAIR_MAINT** Closing Date/Time 03/10/2025 17:00 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 and other related work in Madar-New Palanpur Section of Western Dedicated Freight Corridor (WDFC) under CGM/All for a period of Two Years.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	03/10/2025 17:00	Date Time Of Uploading Tender	12/09/2025 16:58
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	48385170.00	Tendering Section	WORKS 1
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	391900.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	24 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	19/09/2025		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
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-Need based S&T work items							22010112.72	Above/ Below/Par
1	1	3900.00	Per Conductor	11.28	43992.00	AT Par	43992.00	
	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 industrial 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.							
2	02	31500.00	cum	248.50	7827750.00	AT Par	7827750.00	
	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 locations 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.							
	03	800.00	Metre	1030.22	824176.00	AT Par	824176.00	

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3	Description:- All work pertaining to Horizontal Directional Drilling (HDD)/Boring and trenchless cabling. It includes supply, transportation and insertion of 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 120 mm outer dia. and 103.5 mm inner dia. in the bore and laying of cables in the bore under the track/road.							
4	04	13650.00	Running Metre	6.46	88179.00	AT Par	88179.00	
	Description:- Laying of S&T cables of various cores/pairs/quads in trenches/GI Pipes/RCC ducts/ DWC Pipes/Trunking etc ,laying of OFC ducts in trenches including laying of cables in track crossings and road crossings. 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 tapes or any other identifiable marker to give the cable number at each termination point G.P. The contractor will do meggering of all the cables (main & tail) before laying as well as after laying under the supervision of engineer incharge. Meggering test report of each cable will be signed jointly by authorized site representative of contractor and site engineer incharge. Note: The length of the cables laid will include the length of the cables which have been coiled for termination purposes. Half cut DWC pipes, prefabricated ducts and DWC pipes shall be supplied by DFCCIL.							
5	05	16.00	cum	3441.94	55071.04	AT Par	55071.04	
	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.							
6	06	42.00	cum	1715.24	72040.08	AT Par	72040.08	
	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, curing, grouting, bolting etc. where ever required. 'B' Class bricks, sand and cement (ISI mark) will be supplied by the Contractor.							
7	07	125.00	Numbers	15217.50	1902187.50	AT Par	1902187.50	
	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.							
8	08	125.00	Numbers	17367.56	2170945.00	AT Par	2170945.00	
	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.							
9	09	50.00	Kilometre	9108.75	455437.50	AT Par	455437.50	
	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.							
10	10	50.00	Numbers	12900.90	645045.00	AT Par	645045.00	
	Description:- Supply, preparation, splicing and installation of straight joint for 12 fibers along with enclosures with heat shrinkable splice protection sleeve.							
11	11	50.00	Numbers	10593.61	529680.50	AT Par	529680.50	
	Description:- Supply, preparation, splicing and installation of straight joint for 6 fibers along with enclosures with heat shrinkable splice protection sleeve.							
12	12	50.00	Numbers	2503.80	125190.00	AT Par	125190.00	
	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.							
13	13	50.00	Numbers	2503.80	125190.00	AT Par	125190.00	
	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	14	10.00	Numbers	949.93	9499.30	AT Par	9499.30	
	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.							
	15	33.00	Numbers	3338.40	110167.20	AT Par	110167.20	

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15	Description:- Refixing of electrical point machines and ground connection. This would include removal of old /existing point machine and fixing of new/overhauled motor. This would also include bringing the new machines from station / IMD/IMSD to site and taking the old / released machines from site to station/ IMD/IMSD.						
16	16	2033.00	Numbers	78.29	159163.57	AT Par	159163.57
16	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.						
17	Please see Item Breakup for details.			1033759.80	AT Par	1033759.80	
17	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the below mentioned items at Sr. no. 17.1, 17.2, 17.3 & 17.4 after scraping & 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).						
18	18	100.00	Numbers	2013.78	201378.00	AT Par	201378.00
18	Description:- Jointing of 4/6 quad/Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo Shrinkable Joint Kit/Rapid joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with DFCCIL Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost.						
19	19	300.00	Numbers	1438.02	431406.00	AT Par	431406.00
19	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 the supply of required masonry materials.						
20	20	22.00	Numbers	2836.18	62395.96	AT Par	62395.96
20	Description:- Shifting and installation of Apparatus Case Single (Full) Drawing No.- 6/BL/TYP/CW/8024/0 with latest amendment, if any.						
21	21	50.00	Numbers	1870.80	93540.00	AT Par	93540.00
21	Description:- Shifting and installation of Apparatus Case (Half) Drawing No.- 6/BL/TYP/CW/8023/0 with latest amendment, if any.						
22	22	238.00	Numbers	1892.69	450460.22	AT Par	450460.22
22	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 in charge.						
23	23	46.00	Numbers	3849.74	177088.04	AT Par	177088.04
23	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 Rainwater. The Material shall be supplied by DFCCIL.						
24	24	15.00	Numbers	925.47	13882.05	AT Par	13882.05
24	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.						
25	25	13.00	Numbers	883.58	11486.54	AT Par	11486.54
25	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.						
26	26	600.00	cum	257.61	154566.00	AT Par	154566.00
26	Description:- Cross Trench for identification of the route of existing signaling and telecom cables.						
27	27	20.00	Numbers	756.44	15128.80	AT Par	15128.80
27	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 associated fitting installed in the locations						
28	28	20.00	Numbers	9651.52	193030.40	AT Par	193030.40
28	Description:- Main Signal foundation.						
29	29	20.00	Numbers	3232.75	64655.00	AT Par	64655.00
29							

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	Description:- Shunt Signal Foundation						
30	30	20.00	Numbers	6611.29	132225.80	AT Par	132225.80
	Description:- Location Box foundation (Half Case)						
31	31	20.00	Numbers	8660.06	173201.20	AT Par	173201.20
	Description:- Location Box foundation (Full Case)						
32	32	10.00	Station	238837.95	2388379.50	AT Par	2388379.50
	Description:- Supply, Installation, testing and commissioning of Ring Earth for EI system which includes supply of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equi- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. All related material as recommended by RDSO in Specn. No.RDSO/SPN /197/2008 or latest, will be supplied by the contractor. basic material for one earth pit is given below: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. (c) Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (f) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (g) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (h) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (i) Supply of copper lug sleeve for 3/16 cable Installation of one earth pit 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:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E//TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
33	33	200.00	Numbers	2823.69	564738.00	AT Par	564738.00
	Description:- Supply and Installation of earth electrode assembly as per latest RDSO standard / DFCCIL site in charge instruction. This also includes fixing of earth electrodes, earthing of S&T apparatus cases along with all equipment and cable armours along with soldering at all location as decided by the site engineer of the DFC, signal post etc. connected through cable/GI wire 8SWG supported on MS flat size 5mmX40mm to earth electrode as per DFCCIL drawing and practice on the division suitable brick masonry enclosure to be provided around the earth. The earth value which should be less than 10 ohms including the lead wire, should be measured and painted on it. (Inspection by Consignee).						
34	34	5000.00	Numbers	10.93	54650.00	AT Par	54650.00
	Description:- Supply of Round head type, glass fuses per Spec No IRS: S -78/92 with latest amendments,0.6A/2A/4A/6A/8A/10A rating capacity						
35	35	1.00	Per Gate	544952.86	544952.86	AT Par	544952.86
	Description:- Installation, testing and commissioning of electrically operated lifting barrier, complete with Casting of cement concrete foundation for pedestal and boom rest post, cabling, power supply connection & wiring with complete outdoor work as per approved drawing, wiring etc.						
36	36	5.00	Set	2146.06	10730.30	AT Par	10730.30
	Description:- Supply of Yellow Retro reflective sheet for LC Boom prismatic grade reflective sheets of size 305 x 290 mm one set consist 18 pieces						
37	37	462.00	Numbers	195.88	90496.56	AT Par	90496.56
	Description:- Plastic Signal cover for 4-Aspect Signal Unit						
38	38	50.00	Numbers	84.96	4248.00	AT Par	4248.00
	Description:- Plastic cover for Route body opened from side and made of plastic sheet of 100 micron and size 685X76 mm round shape.						

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-Provision of Manpower							26375057.28	Above/ Below/Par
1	01	6864.00	Man-Days	1147.02	7873145.28	AT Par	7873145.28	
	Description:- Provision of Manpower in Skilled Category (Minimum Wages Based as per CLC)							
2	02	13728.00	Man-Days	1347.75	18501912.00	AT Par	18501912.00	
	Description:- Provision of Manpower in Highly Skilled Category (Minimum Wages Based as per CLC)							

3. ITEM BREAKUP

Schedule	Schedule A-Need based S&T work items					
Item- 17	Painting of two coats of synthetic enamel paint over one coat of primer on the below mentioned items at Sr. no. 17.1, 17.2, 17.3 & 17.4 after scraping & 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	1701	Apparatus Case Full Size/Half Size (Outside & Inside)	Numbers	330.00	551.51	181998.30
2	1702	Main Signal Post with Signal units, Surface base and complete fittings as per Standard Practice	Numbers	693.00	828.72	574302.96
3	1703	Shunt Signal Post with Signal Unit, surface base as per Standard Practice	Numbers	393.00	380.38	149489.34
4	1704	Point Machine with ground connections complete (Point Machine with Black enamel only outside and ground connections with Red oxide).	Numbers	492.00	260.10	127969.20
					Total	1033759.80

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

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 Certificates to this effect which may be an attested Certificate from the concerned department/client or Audited Balance sheet duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer(s) should satisfy the following minimum eligibility criteria as under: The tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or One similar works each costing not less than the amount equal to 60% of advertised value of the tender. Similar Nature of Work for this Tender: "Any signaling work related to Repairing/ Refixing/ Replacement/ Construction/ Maintenance of Signaling Assets in Indian Railways or in Railway PSUs like RVNL, IRCON, DFCCIL, KRCL, RITES etc. or in Metro Railways."	No	No	Allowed (Mandatory)

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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	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

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	DFC-AII-SnT_REPAIR_MAINT_1.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: KANTI KUMAR THAKUR

Designation : APM/S T