

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

Tender No: DFC-BRC-STMC-2023-24-163R

Closing Date/Time: 05/12/2023 15:00

GM/Co/BRC acting for and on behalf of The President of India invites E-Tenders against Tender No **DFC-BRC-STMC-2023-24-163R** Closing Date/Time 05/12/2023 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	Signalling and Telecommunication Maintenance, Replacement /refixing works, supply of minor spares and hiring of manpower and maintenance Vehicles, from DFCC Chainage Km 00 to 134 Km (i.e. WDFC Uniform Chainage : 286+867 to 420+808) including link lines from IR Niyol to New Udhna station and from New Sanjali to IR Panoli station Western Dedicated Freight Corridor (WDFC) under DFCCIL Vadodara Unit for Two years.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	05/12/2023 15:00	Date Time Of Uploading Tender	21/11/2023 13:51
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	43916554.20	Tendering Section	SNT
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	369600.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	24 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	21/11/2023	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 -Specified work (Including GST, all statutory taxes and duties) to be operated as and when required.							8666781.72	
1	01	4317.00	cum	293.98	1269111.66	AT Par	1269111.66	
	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	02	2000.00	Metre	1751.95	3503900.00	AT Par	3503900.00	
	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.							
	03	15.00	Route Kilo Meter (RKM)	11210.00	168150.00	AT Par	168150.00	

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3	<p>Description:- Laying of S&T cables of various cores/pairs/quads in trenches/GI Pipes/RCC ducts/ DWC Pipes/Trucking 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 colored 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 length of the cables which have been coiled for termination purposes. Half cut DWC pipes, pre- fabricated ducts and DWC pipes shall be supplied by DFCCIL.</p>						
4	04	1100.00	Per Conductor	10.42	11462.00	AT Par	11462.00
4	<p>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. in charge of the work.</p>						
5	05	10.50	cum	4470.02	46935.21	AT Par	46935.21
5	<p>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</p>						
6	06	24.00	cum	2452.35	58856.40	AT Par	58856.40
6	<p>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. wherever required. 'B' Class bricks, sand and cement (ISI mark) will be supplied by the Contractor.</p>						
7	07	30.00	Kilometre	13311.48	399344.40	AT Par	399344.40
7	<p>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</p>						
8	08	8.00	Numbers	3183.36	25466.88	AT Par	25466.88
8	<p>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.</p>						
9	09	8.00	Numbers	3183.36	25466.88	AT Par	25466.88
9	<p>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.</p>						
10	010	70.00	Numbers	1920.74	134451.80	AT Par	134451.80
10	<p>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.</p>						
11	011	6.00	Numbers	3605.97	21635.82	AT Par	21635.82
11	<p>Description:- Shifting and Installation of Apparatus Case Single (Full) Drawing No.- 6/BL/TYP/CW/8024/0 with latest amendment, if any.</p>						
12	012	8.00	Numbers	2378.56	19028.48	AT Par	19028.48
12	<p>Description:- Shifting and Installation of Apparatus Case (Half) Drawing 6/BL/TYP/CW/8023/0 with latest amendment, if any.</p>						
13	013	20.00	Numbers	4244.49	84889.80	AT Par	84889.80
13	<p>Description:- Refixing of electrical point machines with back drive mechanism 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.</p>						
14	014	200.00	Numbers	60.52	12104.00	AT Par	12104.00
14	<p>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 in charge's instructions.</p>						
15	015	150.00	Numbers	289.61	43441.50	AT Par	43441.50

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	Description:- Lettering / Numbering Termination particulars, equipment's names etc., legibly and neatly inside location boxes. Full Case.						
16	016	100.00	Numbers	164.53	16453.00	AT Par	16453.00
	Description:- Lettering / Numbering Termination particulars, equipment's names etc., legibly and neatly inside location boxes. Half Case.						
17	017	50.00	Numbers	2647.24	132362.00	AT Par	132362.00
	Description:- Supply of Thermo shrink Universal Jointing kit for Quad Cable (for straight joints) as per RDSO spec IRS/TC-77/2012 revision 3 With latest Amd.						
18	018	50.00	Numbers	1425.98	71299.00	AT Par	71299.00
	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 DFC Site incharge. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost.						
19	019	90.00	Numbers	2400.92	216082.80	AT Par	216082.80
	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.						
20	020	20.00	Numbers	1207.75	24155.00	AT Par	24155.00
	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.						
21	021	15.00	Numbers	2694.91	40423.65	AT Par	40423.65
	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 erection of auxiliary signals like calling on, shunt signal, A marker if any and Protection of unit from Rain Water. The Material shall be supplied by DFCCIL.						
22	022	6.00	Numbers	1114.95	6689.70	AT Par	6689.70
	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.						
23	023	7.00	Numbers	2192.95	15350.65	AT Par	15350.65
	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.						
24	024	1.00	Set	30958.84	30958.84	AT Par	30958.84
	Description:- Supply of (02) nos. electrical lifting barrier booms 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 as per available at site. Inspection: Consignee subject to procurement from RDSO approved supplier.						
25	025	1000.00	Metre	85.84	85840.00	AT Par	85840.00
	Description:- Cutting of all types of Road/Platforms Trenching & Excavation to depth of 300mmx300mm wide approx. refilling after laying of GI/DWC (To be provided by DFCC) Pipes and repairing to restore to original condition.						
26	026	500.00	Metre	513.62	256810.00	AT Par	256810.00
	Description:- Supply of Double Walled Corrugated (DWC), Size of Outer Dia 120mm/Inner Dia 103.5mm, having non flame propagation and anti-rodent properties, lectrex /telerelex/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 having IP-67 Protection, for underground Power/Signalling /Telecommunication Cable Protection (Consignee Inspection).						
27	027	2.00	Kilometre	7468.52	14937.04	AT Par	14937.04
	Description:- Supply & Provision of Orange Tape - 50cm depth inside as per the instructions of DFCCIL representative.						
28	028	90.00	Numbers	20571.99	1851479.10	AT Par	1851479.10

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	Description:- Supply of OFC Joint Enclosure & its Installation, Splicing of 12/24/48 Fibre complete with all accessories (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)						
29	029	15.00	Numbers	308.69	4630.35	AT Par	4630.35
	Description:- Supply & Fixing of Hylam Sheet (1220mm x 1220mm x 10mm), of minimum Grade P5, on Apparatus Case/Location Boxes for wiring of Signalling 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.						
30	030	15.00	Numbers	679.92	10198.80	AT Par	10198.80
	Description:- Dismantling and releasing of Location Boxes/Apparatus Cases/Junction Boxes which include releasing of terminal boards, relays, terminals, batteries track feed chargers and other associated fitting installed in the locations.						
31	031	24.00	Numbers	2702.79	64866.96	AT Par	64866.96
	Description:- Supply and Installation of earth electrode assembly as per latest RDSO Standard/ DFCCIL site incharge instruction. This also includes fixing of earth electrodes, earthing of S&T apparatus cases along with all equipment's and cable armours along with soldering at all locations 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).						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-Providing various category of manpower such as Fitter/Wireman/Cable Jointer/OFC Splicer/MTS/Helper to assist DFCCIL Staff in day to day maintenance work for executing different Signaling and Telecom activities. Deployment of the maintenance staff will be decided by DFCCIL. (Including GST, all statutory taxes and duties)							28945136.88	
32	Please see Item Breakup for details.				16745023.20	AT Par	16745023.20	
	Description:- Skilled staff (Fitter/Wireman/Cable Jointer/OFC Splicer)							
33	Please see Item Breakup for details.				7452649.68	AT Par	7452649.68	
	Description:- Semi skilled staff							
34	Please see Item Breakup for details.				4747464.00	AT Par	4747464.00	
	Description:- Unskilled staff							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-Supply of Vehicles (Including GST, all statutory taxes and duties)							6304635.60	
35	035	120.00	Vehicle-Month	43786.63	5254395.60	AT Par	5254395.60	
	Description:- Hiring and Operating of Multi-Utility Vehicle (Open) Mahindra Bolero Camper Gold ZX or Similar or better with loading capacity of one MT and seating capacity of 4/6 persons, 4 cylinders engine, Axle Configuration 4x2, factory- built metal body, cargo box type or passenger cabin type or both (with 24x7 hours availability, along with Driver), including cost of fuel, lubricants, all repairs, salary of driver, all taxes including GST, including running up to 4000 km in a month. The vehicle shall run on pucca, kutcha road and along the track. Toll tax, interstate tax / state entry tax / octroi tax, parking charges on tour will be reimbursed after having submitted the proof. No rest, no weekly off and no holidays will be given to the vehicle. Contractor has to arrange at least Two drivers for Shift wise duty accordingly. In case of servicing/ repair, replacement, vehicle is to be arranged by the Contractor along with the driver at no additional cost. The vehicle should be manufactured in year 2022 or later.							
36	036	96000.00	Kilometre	10.94	1050240.00	AT Par	1050240.00	
	Description:- Fuel charges for running of vehicles per km as per log book for item no. (35) above							

3. ITEM BREAKUP

Schedule	Schedule B-Providing various category of manpower such as Fitter/Wireman/Cable Jointer/OFC Splicer/MTS/Helper to assist DFCCIL Staff in day to day maintenance work for executing different Signaling and Telecom activities. Deployment of the maintenance staff will be decided by DFCCIL. (Including GST, all statutory taxes and duties)
Item- 32	Skilled staff (Fitter/Wireman/Cable Jointer/OFC Splicer)

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S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	3201	Class B City	Man-Month	384.00	28458.00	10927872.00
2	3202	Class C City	Man-Month	240.00	24238.13	5817151.20
					Total	16745023.20
Item- 33 Semi skilled staff						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	3301	Class B City	Man-Month	168.00	24238.13	4072005.84
2	3302	Class C City	Man-Month	168.00	20122.88	3380643.84
					Total	7452649.68
Item- 34 Unskilled staff						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	3401	Class B City	Man-Month	144.00	21483.00	3093552.00
2	3402	Class C City	Man-Month	96.00	17228.25	1653912.00
					Total	4747464.00

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

Check Lst

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

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Special Conditions

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

Technical-Compliances

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

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCC_IndianRailways-April-2022_1.pdf	GCC APRIL 2022
2	FINALBRCTENDER.pdf	DFC BRC SNT 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: VIPULKUMAR MAHESHPRASAD DAVE

Designation : DYPM/S T/BRC