

**EDFC FIELD UNIT-TUNDLA-ELECTRICAL/EDFC  
TENDER DOCUMENT**

Tender No: DFC-EL-TDL-BPUN-KRJN-T014

Closing Date/Time: 22/11/2021 15:00

**CGM/Tundla** acting for and on behalf of The President of India invites E-Tenders against Tender No **DFC-EL-TDL-BPUN-KRJN-T014** Closing Date/Time 22/11/2021 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**

<b>Name of Work</b>	Maintenance of 2x25kV Over Head Equipments and PSI Equipments on New Bhaupur - New Khurja section of DFCCIL including the link lines, connecting chords of New Bhaupur, New Bhadan, New Tundla, New Daudkhan and New Khurja with NCR for a period of 24 (Twenty Four) months period		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Single Packet System
<b>Tender Closing Date Time</b>	22/11/2021 15:00	<b>Date Time Of Uploading Tender</b>	22/10/2021 15:51
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	56846634.80	<b>Tendering Section</b>	WORKS
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money /Bid Security (Rs.)</b>	0.00	<b>Validity of Offer ( Days)</b>	45
<b>Obtain Bid Security Declaration in lieu of Bid Security</b>	Yes		
<b>Tender Doc. Cost (Rs.)</b>	11800.00	<b>Period of Completion</b>	24 Months
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	08/11/2021	<b>Are Joint Venture (JV) firms allowed to bid</b>	No
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 1-OHE Maintenance Activity</b>							33793812.00	Above/ Below/Par
1	Please see Item Breakup for details.				31349362.00	AT Par	31349362.00	
	<b>Description:-</b> Regular Maintenance Activity							
2	Please see Item Breakup for details.				1218200.00	AT Par	1218200.00	
	<b>Description:-</b> Emergency & other maintenance activities							
3	Please see Item Breakup for details.				1226250.00	AT Par	1226250.00	
	<b>Description:-</b> Foundation item							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 2-PSI Maintenance Activity</b>							21467950.00	Above/ Below/Par
1	Please see Item Breakup for details.				20722484.00	AT Par	20722484.00	
	<b>Description:-</b> TSS & SP/SSP maintenance							
2	Please see Item Breakup for details.				745466.00	AT Par	745466.00	
	<b>Description:-</b> Emergency & other maintenance activity							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 3-Supply of OHE maintenance spares</b>							1584872.80	Above/ Below/Par
1	Please see Item Breakup for details.				1584872.80	AT Par	1584872.80	
	<b>Description:-</b> Supply Item Rate List of OHE Maintenance spares							

**3. ITEM BREAKUP**

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Schedule 1-OHE Maintenance Activity						
Item- 1 Regular Maintenance Activity						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Checking and Maintenance of Cantilever assembly	Each	17000.00	837.00	14229000.00
2	2	Checking and maintenance of 25 kV OHE conductors	Per Track KM	376.00	5358.00	2014608.00
3	3	Checking & maintenance of all type of 25 KV OHE Jumpers	Each	2380.00	489.00	1163820.00
4	4	Checking & maintenance of Overlaps (IOL) & (UIOL)	Each	1188.00	1787.00	2122956.00
5	5	Checking & Maintenance of Anti Creep arrangement	Each	500.00	1340.00	670000.00
6	6	Checking & Maintenance of 25 KV Isolator (SP/DP) including earthing heel arrangement if any	Each	128.00	1433.00	183424.00
7	7	Checking & Maintenance of 25 KV OHE at Turnouts	Each	100.00	1374.00	137400.00
8	8	Checking & Maintenance of 25 KV OHE on a cross over	Each	100.00	2746.00	274600.00
9	9	Checking & Maintenance of Section Insulator Assembly	Each	80.00	1374.00	109920.00
10	10	Checking & Maintenance of Auto tension Device (ATD)	Each	1502.00	2902.00	4358804.00
11	11	Checking & Maintenance of Aerial earth wire, Feeder wire & Feeder Termination / Fixed Anchor Termination	Kilometre	700.00	11.00	7700.00
12	12	Foot patrolling to be carried out along with schedule with one DFCCIL staff	Per Track KM	18000.00	160.00	2880000.00
13	13	Checking & maintenance of all type of bonds including cleaning of muffs at OHE mast (Structure/longitudinal/transverse bonds & earth electrode)	Each	20580.00	33.00	679140.00
14	14	Removal & Re erection of bonds of various type during track machine working or Erection of missing/new bonds Paint etc. supplied by DFC)	Each	200.00	83.00	16600.00
15	15	Checking & Maintenance of all additional Insulators ( other than feeder suspension insulators , cantilever insulators & termination insulators )	Each	200.00	382.00	76400.00
16	16	Checking & maintenance of leaning of OHE mast till a new mast erected	Each	80.00	3820.00	305600.00
17	17	Checking & Maintenance of PTFE type neutral section (Quarterly)	Each	108.00	5825.00	629100.00
18	18	Checking & Maintenance of PTFE type neutral section (Quarterly)	Each	400.00	210.00	84000.00
19	19	Trimming of tree branches	Each	200.00	77.00	15400.00
20	20	Erection of 25 KV over head equipment as per requirement	Per Track KM	30.00	46363.00	1390890.00
					<b>Total</b>	<b>31349362.00</b>
Item- 2 Emergency & other maintenance activities						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Loading, unloading of DFCCIL supplied material to places directed by Engineer incharge (i.e. From station to tower wagon, station to station etc.)	Each	100.00	4327.00	432700.00
2	2	Erection of Catenary wire splicing or Contact wire splicing.	Each	40.00	3343.00	133720.00
3	3	Replacement / Re-erection of various types of insulators	Each	200.00	956.00	191200.00
4	4	Breakdown attention by a gang for restoration of 25 KV OHE during accidents/ unusual occurrence for checking OHE parameters- (one gang consisting of 7 staff)	Hour	160.00	1694.00	271040.00
5	5	Erection of traction masts & portal	Numbers	60.00	3159.00	189540.00
					<b>Total</b>	<b>1218200.00</b>
Item- 3 Foundation item						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Casting of all types of foundation ( The rate includes supply of the material- ballast, sand, cement, mixture & reinforcement etc.)	cum	150.00	8175.00	1226250.00
					<b>Total</b>	<b>1226250.00</b>
<b>Schedule</b>	Schedule 2-PSI Maintenance Activity					
<b>Item- 1</b>	TSS & SP/SSP maintenance					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Monthly Bay Maintenance of Traction Substations	Each	840.00	5834.00	4900560.00
2	2	Half yearly Bay Maintenance of Traction Substations	Each	140.00	8975.00	1256500.00
3	3	Yearly Bay Maintenance of Traction Substations	Each	70.00	11888.00	832160.00
4	4	Half yearly maintenance of Feeding post gantry TSS and associated equipments.	Each	20.00	16886.00	337720.00
5	5	Half yearly maintenance of Earthing station in TSS/SP/SSP	Each	4944.00	156.00	771264.00
6	6	Monthly panel maintenance in TSS/SP/SSP	Each	1848.00	2916.00	5388768.00
7	7	Fortnightly battery & battery charger maintenance of TSS	Each	240.00	1865.00	447600.00
8	8	Quarterly maintenance of CB in SP/SSP.	Each	960.00	3319.00	3186240.00
9	9	Fortnightly maintenance of battery & battery charger at SP/SSP yard cleaning.	Each	816.00	1340.00	1093440.00
10	10	Half yearly gantry maintenance of SP/SSP	Each	68.00	11666.00	793288.00
11	11	Quarterly maintenance of AT (Auxiliary transformer) at TSS/SP/SSP and OHE at stations & open section	Each	1792.00	957.00	1714944.00
					<b>Total</b>	<b>20722484.00</b>
<b>Item- 2</b>	Emergency & other maintenance activity					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Maintenance of 25 KV dropout fuse AT TSS/SP/SSP and OHE at stations & open section	Numbers	448.00	1050.00	470400.00
2	2	Breakdown attention of PSI equipment	Hour	234.00	627.00	146718.00
3	3	Removal and re erection of PSI equipment	Each	22.00	5834.00	128348.00
					<b>Total</b>	<b>745466.00</b>
<b>Schedule</b>	Schedule 3-Supply of OHE maintenance spares					
<b>Item- 1</b>	Supply Item Rate List of OHE Maintenance spares					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Counter weight piece (40KG) base with hook (RI NO: 5091	Numbers	10.00	1480.00	14800.00
2	2	Counter weight piece (40KG) (RI 5092)	Numbers	20.00	1480.00	29600.00
3	3	Counter weight piece (20 KG) (RI 5093)	Numbers	20.00	740.00	14800.00
4	4	Counter weight plate (5 kg) (RI NO : 5098)	Numbers	10.00	550.00	5500.00
5	5	Counter weight Guide tubes (5.60m long) (RI NO: 5063-1 & 5067)	Numbers	50.00	1504.47	75223.50
6	6	Counter weight eye rod 1300mm long with GS nut M20,.Washer and annealed copper split pin 4x40 (RI NO : 5095)	Numbers	20.00	518.00	10360.00
7	7	9 Tonne adjuster complete with Both side eye (5020)	Numbers	10.00	650.00	6500.00
8	8	Anchor Double strap (set of 2 nos of 5031) (RI NO: 5030) complete with nut ,bolt, washer & split pin	Numbers	20.00	185.00	3700.00
9	9	Typical Structural number plate (125mm size) ((RI No 7503) Size: 310mm x 340mm x 2mm	Numbers	50.00	480.00	24000.00
10	10	Contact wire parallel clamp Large with SS bolt and nut 16x50/38 MM and spring washer B-16 as per RDSO Drg No ETI/OHE/P/1030-2 (Mod-D)	Numbers	20.00	243.00	4860.00
11	11	Contact wire parallel clamp (part 2 Nos of 1031-3) (RI NO 1030-3) (157-65/107/150)	Numbers	20.00	490.00	9800.00
12	12	Contact wire parallel clamp small Part no 1041-2 with fasteners Drg no ETI/OHE/P/1040-2 (Mod-E )	Numbers	20.00	243.00	4860.00

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13	13	Parallel Clamp (150/105 - 150) RI No: 1050-2	Numbers	20.00	490.00	9800.00
14	14	105 SQMM Large jumper wire annealed copper wire .	Metre	200.00	600.00	120000.00
15	15	50 Sqmm flexible copper jumper wire.	Metre	300.00	263.00	78900.00
16	16	Porcelain 9-Tonne Insulators RI - 6020 ( 1050MM CD) RDSO specification TI/SPC/OHE/INS/0070(04/2007)	Numbers	100.00	3250.00	325000.00
17	17	Large suspension clamp to suit 288sqmm AAC feeder wire (22.05 mm dia) complete assembly with armour tape and ferrule (RI No 1580)	Numbers	10.00	990.00	9900.00
18	18	Lug to suit 91.97 sqmm Aerial Earth wire	Numbers	20.00	175.19	3503.80
19	19	93.3 Sqmm ACSR Earthwire splice (ALSTOM-705115)	Numbers	20.00	1795.25	35905.00
20	20	160 sqmm Large jumper annealed flexible copper wire .	Metre	200.00	902.00	180400.00
21	21	Post Insulator Jumper Clamp (set of 2 nos) (RI NO: 6094)	Numbers	20.00	275.00	5500.00
22	22	Terminal Connector (19mm) Multiple hole (bolted type) RINO:1009	Numbers	20.00	1600.00	32000.00
23	23	Structure bonds/L-Bond	Numbers	200.00	615.72	123144.00
24	24	Single earth electrode	Numbers	50.00	2730.33	136516.50
25	25	GS Snap Head Pin 14x122 mm	Numbers	200.00	30.00	6000.00
26	26	GS Snap Pin 16x50 mm	Numbers	1000.00	35.00	35000.00
27	27	GS Flat Washer 16 mm	Numbers	1000.00	6.00	6000.00
28	28	GS Split Pin 4x32 mm	Numbers	1000.00	5.50	5500.00
29	29	GS Split Pin 4x36mm	Numbers	1000.00	6.00	6000.00
30	30	Anchor V Bolt	Numbers	10.00	310.00	3100.00
31	31	Anchor Bolt	Numbers	10.00	305.00	3050.00
32	32	Anchor Loop	Numbers	10.00	1450.00	14500.00
33	33	GS Bolt 16x50/30 mm with Nut & Flat washer	Numbers	500.00	28.00	14000.00
34	34	GS Bolt 16x50/38 mm with Nut & Flat washer	Numbers	1000.00	28.00	28000.00
35	35	Copper Split Pin 2.5x25 mm	Numbers	5000.00	4.00	20000.00
36	36	Copper Split Pin 4x36 mm	Numbers	5000.00	9.00	45000.00
37	37	GS 'J' Bolt 16 mm with Nut & flat Washer	Numbers	100.00	42.00	4200.00
38	38	GS Bolt 12x100/30 with Nut, Locknut & Flat Washer	Numbers	50.00	20.00	1000.00
39	39	GS Bolt 12x55/30 with Nut, Locknut & Flat Washer	Numbers	50.00	17.00	850.00
40	40	GS Bolt 12x75/30 with Nut, Locknut & Flat Washer	Numbers	50.00	18.00	900.00
41	41	GS Bolt 12x50/35with Nut, Locknut & Flat Washer	Numbers	50.00	22.00	1100.00
42	42	GS Bolt 12x200/49 with Nut & Spring washer	Numbers	100.00	35.00	3500.00
43	43	GS Bolt 16x40/32 with Nut, Locknut & Spring Washer	Numbers	100.00	26.00	2600.00
44	44	GS Bolt 16x220/57 with Nut, Locknut & Flat Washer	Numbers	100.00	55.00	5500.00
45	45	GS Bolt 16x260/57 with Nut, Locknut & Flat washer	Numbers	100.00	60.00	6000.00
46	46	GS Bolt 16x300/57 with Nut, Locknut & Flat Washer	Numbers	100.00	85.00	8500.00
47	47	GS Bolt 16x360/57 with Nut, Locknut & Flat Washer	Numbers	100.00	95.00	9500.00
48	48	GS Bolt 20x65/46 with Nut, Locknut & tapered washer	Numbers	100.00	43.00	4300.00
49	49	GS Bolt 20x75/45 with Nut Lock nut & Tapered Washer	Numbers	100.00	47.00	4700.00
50	50	GS Bolt 16x175/44 with Nut, Locknut & Flat Washer	Numbers	100.00	48.00	4800.00
51	51	GS Bolt 16x210/57 with Nut, Locknut & Flat Washer	Numbers	100.00	53.00	5300.00
52	52	GS Bolt 10x50/26 with Nut & Flat Washer	Numbers	100.00	15.00	1500.00
53	53	GS Bolt 16x65/38 with Nut, Locknut & Flat Washer	Numbers	100.00	30.00	3000.00
54	54	GS Bolt 16x260/100 With Nut, Locknut	Numbers	100.00	57.00	5700.00
55	55	GS Bolt 16x320/100 with Nut, Locknut	Numbers	100.00	80.00	8000.00
56	56	GS bolt 20x50/37 with Nut, Locknut & Flat Washer	Numbers	100.00	42.00	4200.00
57	57	GS bolt 20x260/65 with Nut, Locknut & Flat Washer	Numbers	100.00	95.00	9500.00
58	58	GS bolt 20x280/65 with Nut, Locknut & Flat Washer	Numbers	100.00	100.00	10000.00
59	59	GS bolt 20x330/65 with Nut, Locknut & Flat Washer	Numbers	100.00	130.00	13000.00
60	60	GS bolt 16x360/100 with Nut, Locknut & Flat Washer	Numbers	100.00	95.00	9500.00
61	61	GS bolt 24x70/54 with Nut, Locknut & Copper Split Pin 5x40 mm	Numbers	100.00	70.00	7000.00

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	<b>Total</b>	<b>1584872.80</b>
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**4. ELIGIBILITY CONDITIONS**

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The contractual payments received by the Firm or the arithmetic sum of contractual payments received by Firm in the previous three financial years and current financial year upto the date of opening of tender shall be at least 150% of the estimated value of the work as mentioned in the tender. Certified true copy of audited annual account are to be submitted as a proof along with bid documents. In case the annual accounts are not audited, the contract sum received for the required period should be duly certified by the chartered Accountant. Note: JVs SHALL NOT BE CONSIDERED.	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Firm must have satisfactorily completed in the last three previous financial years and the current financial year upto the date of opening of the tender, one similar single work for a minimum of 35% advertised value of the tender. Work executed with Central/State Govt./Semi-Govt. organizations/Authorities, PSUs, Govt. of India undertakings shall only be considered to qualify above eligibility. Certificates from the private Individuals/Organizations shall not be considered.	No	No	Allowed (Mandatory)
1.1	Similar nature of work of this tender is:-"Maintenance/ Erection of 2X25 kV or 25 kV OHE in Railways System/ Metro Rails System or Maintenance/erection of at least one TSS/substation of not less than 132/33 kV".	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	The tenderers shall submit a notarized affidavit on a non judicial stamp stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the affidavit to be submitted by the bidder is enclosed as Annexure-V. Non submission of an affidavit by the bidder shall result in summary rejection of his/their bid. And it shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self attested by which they/he is qualifying the Qualifying Criteria mentioned in the tender document. It will not be obligatory on the part of Tender Committee to scrutinize beyond the submitted document of tenderer as far as his qualification for the tender is concerned	No	No	Allowed (Mandatory)
2	Contractor must have valid Class-'A', Electrical Contractor License issued from appropriate government authority to execute mentioned works	No	No	Allowed (Mandatory)
3	DETAILS OF SIMILAR WORKS COMPLETED IN LAST THREE YEARS	No	No	Allowed (Mandatory)
4	ANNUAL TURNOVERS FOR THE LAST 3 YEARS	No	No	Allowed (Mandatory)
5	DETAILS OF ONGOING WORKS	No	No	Allowed (Mandatory)

**6. Documents attached with tender**

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<b>S.No.</b>	<b>Document Name</b>	<b>Document Description</b>
1	TD-014.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:** KRISHNA GOPAL DAS

**Designation :** JPMEL/TDL