

CGM PRYJ East acting for and on behalf of The President of India invites E-Tenders against Tender No **DFCC-PRYJE-EL-MAINT-TRD-2** Closing Date/Time 23/05/2024 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	Maintenance of 2x25 kV OHE/PSI and Miscellaneous OHE/PSI/OCC Manning and Testing of PSI equipment in New Deen Dayal Upadhaya to New Karchana section of DFCCIL including Cheeki link line, Iradatganj link line, Chunar link line and Jeonathpur link line connection to Indian Railways and MUNPL link line connection to NTPC for a period of 24 (Twenty-Four) months under CGM PRYJ(E) Unit		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	23/05/2024 15:00	Date Time Of Uploading Tender	
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	95570864.44	Tendering Section	ELECTRICAL
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	627900.00	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	10/05/2024	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 1-OHE- Regular Maintenance Activity							39094861.02	Above/Below/Par
1	1	20280.00	Each	804.30	16311204.00	AT Par	16311204.00	
	Description:- Checking and Maintenance of Cantilever assembly (Annually)							
2	2	794.00	Per Track KM	5144.75	4084931.50	AT Par	4084931.50	
	Description:- Checking and maintenance of 25 kV OHE conductors. (Annually)							
3	3	6006.00	Each	470.42	2825342.52	AT Par	2825342.52	
	Description:- Checking & maintenance of all type of 25 KV OHE Jumpers not covered in other items							
4	4	954.00	Each	1715.28	1636377.12	AT Par	1636377.12	

	Description:- Checking & maintenance of Overlaps (IOL) & (UIOL) (Annually)						
5	5	728.00	Each	1286.46	936542.88	AT Par	936542.88
	Description:- Checking & Maintenance of Anti Creep arrangement (Annually)						
6	6	250.00	Each	1376.06	344015.00	AT Par	344015.00
	Description:- Checking & Maintenance of 25 KV Isolator (SP/DP) including earthing heel arrangement if any.						
7	7	66.00	Each	2234.30	147463.80	AT Par	147463.80
	Description:- Checking & Maintenance of 25 KV OHE at Turnouts by Tower Wagon (Annually)						
8	8	168.00	Each	2636.91	443000.88	AT Par	443000.88
	Description:- Checking & Maintenance of 25 KV OHE on a cross over by Tower Wagon (Annually)						
9	9	120.00	Each	1319.52	158342.40	AT Par	158342.40
	Description:- Checking & Maintenance of Section Insulator Assembly by Tower Wagon (Annually).						
10	10	1782.00	Each	2786.25	4965097.50	AT Par	4965097.50
	Description:- Checking & Maintenance of Auto tension Device (ATD) (Annually)						
11	11	3500.00	Each	30.94	108290.00	AT Par	108290.00
	Description:- Checking & maintenance of all type of bonds & BEC connection including cleaning of muffs at OHE mast.						
12	12	4500.00	Each	80.00	360000.00	AT Par	360000.00
	Description:- Removal of & Re erection of bonds of various type during track machine working or Erection of missing/new bonds including Paint etc.						
13	13	70.00	Each	3668.42	256789.40	AT Par	256789.40
	Description:- Checking & maintenance of leaning of OHE mast till a new mast erected.						
14	14	144.00	Each	5592.70	805348.80	AT Par	805348.80
	Description:- Checking & Maintenance of PTFE type neutral section (Quarterly).						
15	15	760.00	Each	409.62	311311.20	AT Par	311311.20
	Description:- Checking and Maintenance of Portal boom & drop arms free from foreign body including bird nests.						
16	16	2000.00	Each	27.73	55460.00	AT Par	55460.00
	Description:- Trimming of tree branches to maintain minimum 5 to 6-meter clearance from OHE.						
17	17	20.00	Per Track KM	44518.16	890363.20	AT Par	890363.20
	Description:- Erection of 25 KV overhead equipment as per requirement.						
18	18	100.00	Per Track KM	1007.51	100751.00	AT Par	100751.00
	Description:- Checking and compilation of hotspot of OHE using Thermo vision camera by a skilled Engineer.						
19	19	1000.00	Each	86.18	86180.00	AT Par	86180.00
	Description:- Stenciling/Painting of rail level, implantation, MRL, ERL & location number etc. Sed Parameters.						
20	20	891.00	Each	609.07	542681.37	AT Par	542681.37

20	Description:- Painting of counter weight of ATD & GUY Rod assembly including marking of Y value.						
21	21	705.00	Each	370.05	260885.25	AT Par	260885.25
	Description:- Checking and maintenance of Feeder Termination and AEC termination.						
22	22	1600.00	Each	741.58	1186528.00	AT Par	1186528.00
	Description:- Supply and erection of OHE Retro reflecting number plate including plate fixing.						
23	23	60.00	Each	305.46	18327.60	AT Par	18327.60
	Description:- Supply and erection of caution board.						
24	24	620.00	Each	132.14	81926.80	AT Par	81926.80
	Description:- Providing and replacing of DO Fuse at Auxiliary Transformer of 1 A/ 5A as per requirement.						
25	25	1400.00	Each	900.12	1260168.00	AT Par	1260168.00
	Description:- Maintenance of Auxiliary Transformer at Station and ALH and RH Locations.						
26	26	608.00	Per Track KM	1509.10	917532.80	AT Par	917532.80
	Description:- Checking and maintenance of 25 kV OHE feeder & AEC conductors excluding termination arrangement.						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 2-OHE-Emergency & Other maintenance activities							878160.00	Above/Below/Par
1	1	30.00	Each	4154.85	124645.50	AT Par	124645.50	
	Description:- Loading, unloading of DFCCIL supplied material to places directed by Engineer incharge (i.e. From station to tower wagon, station to station etc.) (applicable for material more than 2 MT)							
2	2	20.00	Each	3145.72	62914.40	AT Par	62914.40	
	Description:- Erection of Catenary wire splicing or Contact wire splicing.							
3	3	200.00	Each	917.37	183474.00	AT Par	183474.00	
	Description:- Replacement / Re-erection of various types of insulators							
4	4	240.00	Hour	1626.74	390417.60	AT Par	390417.60	
	Description:- 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)							
5	5	25.00	Numbers	2972.17	74304.25	AT Par	74304.25	
	Description:- Erection of traction masts & portal other than boom							
6	6	35.00	Each	1211.55	42404.25	AT Par	42404.25	
	Description:- Transfer of OHE equipment from one mast or support to another.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 3-OHE-Foundation Items							613145.60	Above/Below/Par
1	1	80.00	cum	7664.32	613145.60	AT Par	613145.60	
	Description:- Casting of all types of foundation (The rate includes supply of the material-ballast, sand, cement, mixture & reinforcement etc.) with shuttering							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 4-OHE-Additional OHE work							1042831.39	Above/Below/Par
1	1	3.00	Each	58863.28	176589.84	AT Par	176589.84	
	Description:- Supply and maintenance of petrol operated telescopic pole pruner model no. HT 75 of STIHL or equivalent model of FISKAR make for tree trimming purpose							
2	2	4.00	Each	5516.53	22066.12	AT Par	22066.12	
	Description:- Supply and fixing of Splicing Clamp Assembly For 150 sq. mm Contact Wire (Crocodile Type)							
3	3	4.00	Each	2587.39	10349.56	AT Par	10349.56	
	Description:- Supply and fixing Catenary Wire Splice 125 Sq. mm.							
4	4	4.00	Each	3300.14	13200.56	AT Par	13200.56	
	Description:- Supply and fixing Feeder wire splice for 288 sq. mm AAC conductor.							
5	5	4.00	Each	1510.11	6040.44	AT Par	6040.44	
	Description:- Supply and fixing Aerial Earth wire splice for 181.6 sq. mm ACSR conductor.							
6	6	4.00	Each	2757.91	11031.64	AT Par	11031.64	
	Description:- Supply and fixing of Splicing Clamp Assembly for 107 sq. mm Contact Wire (Crocodile Type).							
7	7	4.00	Each	919.30	3677.20	AT Par	3677.20	
	Description:- Supply and fixing Catenary Wire Splice 65 Sq. mm.							
8	8	50.00	Each	1634.95	81747.50	AT Par	81747.50	
	Description:- Erection of Cantilevers.							
9	9	20.00	Each	629.05	12581.00	AT Par	12581.00	
	Description:- Erection of material for solid core cut in insulator.							
10	10	20.00	Each	444.43	8888.60	AT Par	8888.60	
	Description:- Erection of material for suspension in insulator Each 20444.438888.60							
11	11	100.00	Each	238.93	23893.00	AT Par	23893.00	
	Description:- Erection of structure bonds.							
12	12	25.00	Each	2402.94	60073.50	AT Par	60073.50	
	Description:- Supply of material for single earth electrode.							
13	13	25.00	Each	1090.09	27252.25	AT Par	27252.25	
	Description:- Erection of material for single earth electrode.							
14	14	15.00	Each Span	3335.19	50027.85	AT Par	50027.85	
	Description:- Slewing of OHESpan.							
15	15	5.00	Per Track KM	13357.46	66787.30	AT Par	66787.30	
	Description:- Preparation of design and drawing for overhead equipment and verification as per plan.							
16	16	10.00	MT	6852.91	68529.10	AT Par	68529.10	
	Description:- Erection of rolled / fabricated and galvanized traction mast, TTC, Portals, AT Mast, Feeder Mast, bridge mast etc.							
17	17	10.00	Each	1176.25	11762.50	AT Par	11762.50	
	Description:- Erection of material for Guy rod assembly.							

18	18	600.00	Metre	75.18	45108.00	AT Par	45108.00	
	Description:- Erection of large span wire.							
19	19	10.00	Each	4688.42	46884.20	AT Par	46884.20	
	Description:- Erection of material for Regulating Equipment (ATD).							
20	20	10.00	Each	1810.05	18100.50	AT Par	18100.50	
	Description:- Erection of Material for termination of single/double conductor of overhead equipment.							
21	21	10.00	Each	9548.96	95489.60	AT Par	95489.60	
	Description:- Supply and erection of Guy rod assembly.							
22	22	10.00	Each	3391.72	33917.20	AT Par	33917.20	
	Description:- Erection of Anticreep wire.							
23	23	5.00	Each	5678.46	28392.30	AT Par	28392.30	
	Description:- Erection of Section Insulator assembly and associate Fittings & fasteners.							
24	24	3.00	Each	7535.24	22605.72	AT Par	22605.72	
	Description:- Erection of PTFE neutral section assembly and associate Fittings & fasteners.							
25	25	4.00	Each	6590.24	26360.96	AT Par	26360.96	
	Description:- Erection of 25 kV DP Isolator with all material as required.							
26	26	5.00	Each	6018.30	30091.50	AT Par	30091.50	
	Description:- Erection of 25 kV SP Isolator with all material as required.							
27	27	20.00	MT	1603.04	32060.80	AT Par	32060.80	
	Description:- Dismantling of traction structure, Portals, TTC and associate SPS by cutting.							
28	28	15.00	Each	621.51	9322.65	AT Par	9322.65	
	Description:- Supply and Erection of Retro-reflective type boards- 25KV AC OHE danger board/danger board for height gauge, public, staff caution board and special boards.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 5-OHE-Additional OHE Items							4168372.49	Above/Below/Par
1	Lump Sum				4168372.49	AT Par	4168372.49	
	Description :- Supply of spares, tools & equipment required during maintenance & break downs for a period of 2 years- As per Appendix -A							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 6-PSI-Maintenance of Traction Sub Stations							7703955.50	Above/Below/Par
1	1	160.00	Each	1317.87	210859.20	AT Par	210859.20	
	Description:- Monthly Maintenance of 132kV/55kV, 39/54.6/65.13 MVA Traction Power Transformer.							
2	2	16.00	Each	1763.49	28215.84	AT Par	28215.84	
	Description:- Half Yearly Maintenance of 132 kV/55kV, 39/54.6/65.13 MVA Traction Power Transformer.							
3	3	16.00	Each	2756.62	44105.92	AT Par	44105.92	
	Description:- Yearly Maintenance of 132kV/55kV, 39/54.6/65.13 MVA Traction Power Transformer.							
4	4	520.00	Each	881.74	458504.80	AT Par	458504.80	

	Description:- Monthly Maintenance of 132 kV TP SF-6 Circuit Breaker.						
5	5	52.00	Each	1373.57	71425.64	AT Par	71425.64
	Description:- Half Yearly Maintenance of 132kV TP SF-6 Circuit Breaker.						
6	6	52.00	Each	1652.08	85908.16	AT Par	85908.16
	Description:- Yearly Maintenance of 132 kV TP SF-6 Circuit Breaker.						
7	7	26.00	Each	1768.42	45978.92	AT Par	45978.92
	Description:- Three Yearly Maintenance of 132kV TP SF-6 Circuit Breaker.						
8	8	1400.00	Each	436.13	610582.00	AT Par	610582.00
	Description:- Monthly Maintenance of 132kV Current Transformer.						
9	9	140.00	Each	654.75	91665.00	AT Par	91665.00
	Description:- Half Yearly Maintenance of 132kV Current Transformer.						
10	10	140.00	Each	881.74	123443.60	AT Par	123443.60
	Description:- Yearly Maintenance of 132kV Current Transformer.						
11	11	70.00	Each	944.31	66101.70	AT Par	66101.70
	Description:- Three Yearly Maintenance of 132kV Current Transformer.						
12	12	108.00	Each	395.23	42684.84	AT Par	42684.84
	Description:- Half Yearly Maintenance of 132kV Potential Transformer.						
13	13	108.00	Each	799.06	86298.48	AT Par	86298.48
	Description:- Yearly Maintenance of 132kV Potential Transformer.						
14	14	520.00	Each	701.17	364608.40	AT Par	364608.40
	Description:- Monthly Maintenance of 120 kV Lightning Arrester.						
15	15	208.00	Each	594.16	123585.28	AT Par	123585.28
	Description:- Quarterly Maintenance of 120 kV Lightning Arrester.						
16	16	104.00	Each	881.74	91700.96	AT Par	91700.96
	Description:- Half Yearly Maintenance of 120 kV Lightning Arrester.						
17	17	104.00	Each	799.06	83102.24	AT Par	83102.24
	Description:- Yearly Maintenance of 120 kV Lightning Arrester.						
18	18	880.00	Each	436.80	384384.00	AT Par	384384.00
	Description:- Monthly Maintenance of 132 kV TP Motorised Isolator with or without earthing heel.						
19	19	88.00	Each	658.93	57985.84	AT Par	57985.84
	Description:- Half Yearly Maintenance of 132 kV TP Motorised Isolator with or without earthing heel.						
20	20	88.00	Each	993.14	87396.32	AT Par	87396.32
	Description:- Yearly Maintenance of 132 kV TP Motorised Isolator with or without earthing heel.						
21	21	640.00	Each	334.04	213785.60	AT Par	213785.60
	Description:- Monthly Maintenance of 25kV DP Circuit Breaker.						
22	22	64.00	Each	658.93	42171.52	AT Par	42171.52
	Description:- Half Yearly Maintenance of 25kV DP Circuit Breaker.						
23	23	64.00	Each	1317.46	84317.44	AT Par	84317.44
	Description:- Yearly Maintenance of 25kV DP Circuit Breaker.						
24	24	28.00	Each	1317.46	36888.88	AT Par	36888.88
	Description:- Three Yearly Maintenance of 25kV DP Circuit Breaker.						

25	25	1480.00	Each	658.07	973943.60	AT Par	973943.60	
	Description:- Monthly Maintenance of 25 kV DP Motorised Isolator without earthing heel.							
26	26	148.00	Each	1104.34	163442.32	AT Par	163442.32	
	Description:- Half Yearly Maintenance of 25 kV DP Motorised Isolator without earthing heel.							
27	27	148.00	Each	1651.87	244476.76	AT Par	244476.76	
	Description:- Yearly Maintenance of 25 kV DP Motorised Isolator without earthing heel.							
28	28	912.00	Each	333.97	304580.64	AT Par	304580.64	
	Description:- Monthly Maintenance of 42 kV Lightning Arrester.							
29	29	192.00	Each	302.66	58110.72	AT Par	58110.72	
	Description:- Quarterly Maintenance of 42 kV Lightning Arrester.							
30	30	96.00	Each	547.53	52562.88	AT Par	52562.88	
	Description:- Half Yearly Maintenance of 42 kV Lightning Arrester.							
31	31	96.00	Each	496.19	47634.24	AT Par	47634.24	
	Description:- Yearly Maintenance of 42 kV Lightning Arrester.							
32	32	48.00	Each	436.13	20934.24	AT Par	20934.24	
	Description:- Quarterly Maintenance of 25 kV Potential Transforme PT (Type I).							
33	33	24.00	Each	659.15	15819.60	AT Par	15819.60	
	Description:- Half Yearly Maintenance of 25 kV Potential Transformer PT (Type I).							
34	34	24.00	Each	881.74	21161.76	AT Par	21161.76	
	Description:- Yearly Maintenance of 25 kV Potential Transformer PT (Type I).							
35	35	80.00	Each	436.13	34890.40	AT Par	34890.40	
	Description:- Quarterly Maintenance of 25 kV Potential Transforme PT (Type II)							
36	36	40.00	Each	659.15	26366.00	AT Par	26366.00	
	Description:- Half Yearly Maintenance of 25 kV Potential Transformer PT (Type II).							
37	37	40.00	Each	881.74	35269.60	AT Par	35269.60	
	Description:- Yearly Maintenance of 25 kV Potential Transformer PT (Type II)							
38	38	960.00	Each	436.13	418684.80	AT Par	418684.80	
	Description:- Monthly Maintenance of 25 kV Current Transformer.							
39	39	96.00	Each	659.15	63278.40	AT Par	63278.40	
	Description:- Half Yearly Maintenance of 25 kV Current Transformer.							
40	40	96.00	Each	881.74	84647.04	AT Par	84647.04	
	Description:- Yearly Maintenance of 25 kV Current Transformer.							
41	41	48.00	Each	944.31	45326.88	AT Par	45326.88	
	Description:- Three Yearly Maintenance of 25 kV Current Transformer.							
42	42	280.00	Each	334.21	93578.80	AT Par	93578.80	
	Description:- Monthly Maintenance of 25 kV Vacuum DP Interrupter.							
43	43	28.00	Each	658.93	18450.04	AT Par	18450.04	
	Description:- Half Yearly Maintenance of 25 kV Vacuum DP Interrupter.							
44	44	28.00	Each	1317.87	36900.36	AT Par	36900.36	
	Description:- Yearly Maintenance of 25 kV Vacuum DP Interrupter.							
45	45	24.00	Each	334.21	8021.04	AT Par	8021.04	
	Description:- Quarterly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer							
46	46	12.00	Each	658.93	7907.16	AT Par	7907.16	

	Description:- Half Yearly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer.						
47	47	12.00	Each	1763.48	21161.76	AT Par	21161.76
	Description:- Yearly Maintenance of 25kV/240V, 100kVA LT Auxiliary Transformer						
48	48	24.00	Each	334.20	8020.80	AT Par	8020.80
	Description:- Quarterly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer						
49	49	12.00	Each	658.93	7907.16	AT Par	7907.16
	Description:- Half Yearly Maintenance of 25kV/240V, 10 kVA LT Auxiliary Transformer.						
50	50	12.00	Each	1763.48	21161.76	AT Par	21161.76
	Description:- Yearly Maintenance of 25kV/240V, 10 kVA LT Auxiliary Transformer.						
51	51	24.00	Each	658.93	15814.32	AT Par	15814.32
	Description:- Quarterly maintenance of 2500 KVAR CAPACITOR BANK INCLUDING SERIES REACTOR.						
52	52	12.00	Each	1763.48	21161.76	AT Par	21161.76
	Description:- Half yearly maintenance of 2500 KVAR CAPACITOR BANK INCLUDING SERIES REACTOR						
53	53	12.00	Each	2645.22	31742.64	AT Par	31742.64
	Description:- Yearly maintenance of 2500 KVAR CAPACITOR BANK INCLUDING SERIES REACTOR						
54	54	36.00	Each	457.17	16458.12	AT Par	16458.12
	Description:- Quarterly Maintenance of 25 kV Neutral Current Transformer						
55	55	12.00	Each	914.35	10972.20	AT Par	10972.20
	Description:- Yearly Maintenance of 25 kV Neutral Current Transformer.						
56	56	288.00	Each	436.13	125605.44	AT Par	125605.44
	Description:- Fortnightly battery & battery charger maintenance of TSS.						
57	57	12.00	Each	10571.41	126856.92	AT Par	126856.92
	Description:- Yearly battery & battery charger maintenance of TSS.						
58	58	464.00	Each	167.11	77539.04	AT Par	77539.04
	Description:- Half Yearly maintenance of Earthing station						
59	59	464.00	Each	167.11	77539.04	AT Par	77539.04
	Description:- Yearly maintenance of Earthing station.						
60	60	6.00	Each	17625.33	105751.98	AT Par	105751.98
	Description:- Yearly Buried Rail Connection.						
61	61	1500.00	Each	436.13	654195.00	AT Par	654195.00
	Description:- Half Yearly Thermal Imaging of Equipment connector.						
62	62	6.00	Each	1652.08	9912.48	AT Par	9912.48
	Description:- Yearly Maintenance of Earth Screen Conductor.						
63	63	6.00	Each	8807.93	52847.58	AT Par	52847.58
	Description:- Yearly maintenance of Cable Trench Cleaning.						
64	64	12.00	Each	69.43	833.16	AT Par	833.16
	Description:- Reclamation of DCP(5kG,10 k G & 25 kG),CO2(9kG) & form type fire extinguisher.						
65	65	12.00	Each	565.54	6786.48	AT Par	6786.48
	Description:- Refilling of DCP(5kG,10 kG & 25 kG),CO2(9kG) & form type fire extinguisher.						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 7-PSI-SP/SSPs/ATS Maintenance							5265485.38	Above/Below/Par
1	1	360.00	Each	1317.41	474267.60	AT Par	474267.60	
	Description:- Monthly Maintenance of 9 MVA Auto Transformer							
2	2	36.00	Each	1762.12	63436.32	AT Par	63436.32	
	Description:- Half Yearly Maintenance of 9 MVA Auto Transformer.							
3	3	36.00	Each	2755.24	99188.64	AT Par	99188.64	
	Description:- Yearly Maintenance of 9 MVA Auto Transformer.							
4	4	980.00	Each	334.21	327525.80	AT Par	327525.80	
	Description:- Monthly Maintenance of 25 kV DP Interrupter.							
5	5	98.00	Each	658.93	64575.14	AT Par	64575.14	
	Description:- Half Yearly Maintenance of 25 kV DP Interrupter.							
6	6	98.00	Each	1317.87	129151.26	AT Par	129151.26	
	Description:- Yearly Maintenance of 25 kV DP Interrupter.							
7	7	1600.00	Each	655.63	1049008.00	AT Par	1049008.00	
	Description:- Monthly Maintenance of 25 kV DP Isolator.							
8	8	160.00	Each	1104.55	176728.00	AT Par	176728.00	
	Description:- Half Yearly Maintenance of 25 kV DP Isolator.							
9	9	160.00	Each	1652.08	264332.80	AT Par	264332.80	
	Description:- Yearly Maintenance of 25 kV DP Isolator.							
10	10	136.00	Each	436.13	59313.68	AT Par	59313.68	
	Description:- Quarterly Maintenance of 25 kV Potential Transformer.							
11	11	68.00	Each	659.15	44822.20	AT Par	44822.20	
	Description:- Half Yearly Maintenance of 25 kV Potential TransformerEach.							
12	12	68.00	Each	881.74	59958.32	AT Par	59958.32	
	Description:- Yearly Maintenance of 25 kV Potential Transformer.							
13	13	1440.00	Each	333.97	480916.80	AT Par	480916.80	
	Description:- Monthly Maintenance of 42 kV Lightning Arrester.							
14	14	360.00	Each	302.66	108957.60	AT Par	108957.60	
	Description:- Quarterly Maintenance of 42 kV Lightning Arrester.							
15	15	180.00	Each	547.53	98555.40	AT Par	98555.40	
	Description:- Half Yearly Maintenance of 42 kV Lightning Arrester.							
16	16	180.00	Each	496.19	89314.20	AT Par	89314.20	
	Description:- Yearly Maintenance of 42 kV Lightning Arrester.							
17	17	56.00	Each	334.20	18715.20	AT Par	18715.20	
	Description:- Quarterly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer							
18	18	28.00	Each	658.93	18450.04	AT Par	18450.04	
	Description:- Half Yearly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer.							
19	19	28.00	Each	1763.48	49377.44	AT Par	49377.44	
	Description:- Yearly Maintenance of 25kV/240V, 10kVA LT Auxiliary Transformer							
20	20	672.00	Each	436.13	293079.36	AT Par	293079.36	
	Description:- Fortnightly battery & battery charger maintenance at SPs/SSPs.							

21	21	28.00	Each	10571.41	295999.48	AT Par	295999.48	
	Description:- Yearly Maintenance of Battery AND Battery Charger.							
22	22	740.00	Each	167.11	123661.40	AT Par	123661.40	
	Description:- Half Yearly maintenance of Earthing station.							
23	23	420.00	Each	167.11	70186.20	AT Par	70186.20	
	Description:- Yearly maintenance of Earthing station.							
24	24	18.00	Each	17625.33	317255.94	AT Par	317255.94	
	Description:- Yearly Buried Rail Connection.							
25	25	40.00	Each	334.21	13368.40	AT Par	13368.40	
	Description:- Monthly Maintenance of 25 kV SSP Interrupter.							
26	26	8.00	Each	658.93	5271.44	AT Par	5271.44	
	Description:- Half Yearly Maintenance of 25 kV SSP Interrupter.							
27	27	4.00	Each	1317.87	5271.48	AT Par	5271.48	
	Description:- Yearly Maintenance of 25 kV SSP Interrupter.							
28	28	720.00	Each	436.13	314013.60	AT Par	314013.60	
	Description:- Half Yearly Thermal Imaging of Equipment connector							
29	29	56.00	Each	1652.08	92516.48	AT Par	92516.48	
	Description:- Yearly Maintenance of Earth Screen Conductor.							
30	30	14.00	Each	3526.97	49377.58	AT Par	49377.58	
	Description:- Yearly maintenance of Cable Trench Cleaning.							
31	31	14.00	Each	69.43	972.02	AT Par	972.02	
	Description:- Reclamation of DCP(5kG,10 k G & 25 kG),CO2(9kG) & form type fire extinguisher.							
32	32	14.00	Each	565.54	7917.56	AT Par	7917.56	
	Description:- Refilling of DCP(5kG,10 kG & 25 kG),CO2(9kG) & form type fire extinguisher.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 8-PSI-Panels & Gantry Bus Bar insulator other Maintenance							2747836.06	Above/Below/Par
1	1	72.00	Each	2724.46	196161.12	AT Par	196161.12	
	Description:- Monthly panel maintenance in TSS							
2	2	168.00	Each	1362.23	228854.64	AT Par	228854.64	
	Description:- Monthly panel maintenance in SP/SSP							
3	3	12.00	Each	15775.91	189310.92	AT Par	189310.92	
	Description:- Half yearly Cross gantry or any others Gantry Bus Bar maintenance of TSS							
4	4	28.00	Each	10898.86	305168.08	AT Par	305168.08	
	Description:- Half yearly Cross gantry or any others Gantry Bus Bar maintenance of SP/SSPs.							
5	5	50.00	Each	5671.86	283593.00	AT Par	283593.00	
	Description:- Removal and re-erection of PSI Equipment							
6	6	100.00	Each	304.39	30439.00	AT Par	30439.00	
	Description:- Supply & Erection of Caution Board.							
	7	375.00	cum	1370.24	513840.00	AT Par	513840.00	

7	Description:- Supply and spreading of ballast/Pebbles/Gravels in Switching Stations/TSS yard.							
8	8	325.00	Sqm	1318.84	428623.00	AT Par	428623.00	
	Description:- Reinforce concrete for cable trench & cover							
9	9	325.00	Sqm	38.76	12597.00	AT Par	12597.00	
	Description:- Supply and repainting of PSI Equipment like Transformer CT ,PT ,LA BM, CB, AT as per site requirement with water proof gray enamled paint by apprved brand i.e. Asian Berger etc. as per IS 2932 or latest							
10	10	325.00	Sqm	35.40	11505.00	AT Par	11505.00	
	Description:- Supply and repainting of PSI assets ie. Fencing Panels, FencingUP right, barbed wire, Tubular pole at TSS/SP/SSP with Aluminum Paint i.e. Asian Berger etc. as per IS 2339 or latest							
11	11	150.00	Each	900.01	135001.50	AT Par	135001.50	
	Description:- Supply and erection of Earth Pit cover & Box.							
12	12	24.00	Each	863.95	20734.80	AT Par	20734.80	
	Description:- Provision of Shock Treatment Chart.							
13	13	190.00	Each	37.40	7106.00	AT Par	7106.00	
	Description:- Drilling of holes in mast/ rails with contractror own labour and T&P complete.							
14	14	23700.00	Sqm	8.87	210219.00	AT Par	210219.00	
	Description:- Removal of Wild vegetation in TSS/SP/SSPs							
15	15	325.00	Metre	258.26	83934.50	AT Par	83934.50	
	Description:- Supply and erection of earth leads 75 x 8 mm mild steel flat laid in the ground or exposed as per site requirement							
16	16	475.00	Metre	143.58	68200.50	AT Par	68200.50	
	Description:- Supply and erection of earth leads 50 x6 mm mild steel flat laid in the ground or exposed as per site.							
17	17	600.00	Metre	37.58	22548.00	AT Par	22548.00	
	Description:- Supply and erection of 8 SWG GI Wire for earthing.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 9-PSI-Break down attention							1290814.40	Above/Below/Par
1	1	480.00	Hour	685.12	328857.60	AT Par	328857.60	
	Description:- Breakdown attention of PSI equipments at TSS/SP/SSPs							
2	2	720.00	Each	1147.94	826516.80	AT Par	826516.80	
	Description:- Maintenance of 25 KV dropout fuse AT TSS/SP/SSP							
3	3	100.00	Man-Days	1354.40	135440.00	AT Par	135440.00	
	Description:- Manning of SP/SSP in case of Emergency							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 10-PSI-Additional PSI maintenance Activity							2619763.00	Above/Below/Par
	Lump Sum				2619763.00	AT Par	2619763.00	
1	Description :- Dismantling, supply, erection & commissioning of LA, CT, PT, CB & BM in case of break down/bursting of the equipment- Rate as per Appendix-B							

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 11-PSI-Maintenance of Traction Sub Stations /SCPs (Optional)							1223230.00	Above/Below/Par
1	Lump Sum				1223230.00	AT Par	1223230.00	
	Description :- Maintenance of Traction Sub Stations/SCPs (Optional) Note: Rate Schedules are available in Tender Document 'Appendix-C'							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 12-MISCELLANEOUS OHE/PSI/OCC Manning for Electrical Work, Operator, Housekeeping and Regular Foot Patrolling in the section. (Note:-Bidder should not quote the rate below the advertised value. Bidder Quoting rates below the advertised value will be disqualified)							26501049.60	Above/Below/Par
1	1	72.00	Man-Month	27826.76	2003526.72	AT Par	2003526.72	
	Description:- Manning of TSS (Gandhion TSS) (Skilled person for maintaining registers,operation of equipments and monitoring PSI equipment) (Total 01 TSS Location*03 shift=03 Person) (Total 03 Person (8*3=24 Hour shift).(Class B Salary)							
2	2	264.00	Man-Month	26572.02	7015013.28	AT Par	7015013.28	
	Description:- Manning of TSS (Chandaipur and Deoria TSS) and DDU rack siding (Skilled person for maintaining registers,operation of equipments and monitoring PSI equipment) (Total 02 TSS & 01 DDU rack siding=03 Location*03 shift=09 Person) (Total 09 Person+16% reliever=11 Person (8*3=24 Hour shift). Releiver for both SN.1 and SN.2. (Class C Salary)							
3	3	96.00	Man-Month	23799.16	2284719.36	AT Par	2284719.36	
	Description:- Regular Housekeeping of TSS (Gandhion TSS) and 02 Stores (KCNN & UNDN) +TW Maintainer (Unskilled person at 01 No.TSS and 01IMD+01 ISMD+01TW (KCNN)=total 04) (08 Hour shift only)(Class B Salary)							
4	4	120.00	Man-Month	19263.46	2311615.20	AT Par	2311615.20	
	Description:- Regular Housekeeping of TSS (Chandaipur and Deoria TSS) and Stores (DAPN & DDUN) +TW Maintainer (Unskilled person at 02 No.TSS and 01 IMD+01 ISMD+01TW=total 05) (08 Hour shift only) (Class C Salary)							
5	5	48.00	Man-Month	27826.76	1335684.48	AT Par	1335684.48	
	Description:- Data Entry Operator Cum Store Maintainer at IMD/ISMD (Skilled Person at 01 KCNN IMD & 01UNDN ISMD= Total 02) (08 Hour shift only) (Class B Salary)							
6	6	48.00	Man-Month	26572.02	1275456.96	AT Par	1275456.96	
	Description:- Data Entry Operator Cum Store Maintainer at IMD/ISMD (Skilled Person at 01 DDUN IMD & 01 DAPN ISMD= Total 02) (08 Hour shift only)(Class C Salary)							
7	7	120.00	Man-Month	27826.76	3339211.20	AT Par	3339211.20	

7	Description:- Manning of OCC Building (Skilled person for Electrical Maintenance works, maintaining registers and operation of equipments) (03 Person 8*3=24 Hour shift and one person for general shift of 08 hour only and also as a reliever for item 7 and 8) (Class B Salary).01 skilled person in General shift for Electrical Maintenance works (08 Hour shift only) Total 05 Person						
8	8	72.00	Man-Month	23799.16	1713539.52	AT Par	1713539.52
8	Description:- Manning of OCC Building (Unskilled person for General Electrical Maintenance works, maintaining registers and operation of equipments) (Total 03 Person 8*3=24 Hour shift) (Class B Salary)						
9	9	96.00	Man-Month	27826.76	2671368.96	AT Par	2671368.96
9	Description:- Regular Foot Patrolling Skilled Person for 01 IMD KCNN & 01 IMSD UNDN = 04 Person i.e 02/Location (08 Hour shift only) (Person having Knowledge of OHE/PSI Equipments and competent to attend the fault, insulator cleaning and other miscellaneous OHE/PSI Work during Power and traffic block in supervision of DFCCIL Official) (During Foot patrolling Person will carry Operating rod+Hammer+Flag+Spiner/Wrenches) Per day 6-8 TKM Foot patrolling. (Class B Salary)						
10	10	96.00	Man-Month	26572.02	2550913.92	AT Par	2550913.92
10	Description:- Regular Foot Patrolling Skilled Person for 01 IMD DDUN & 01 ISMD DAPN = 04 Person i.e 02/Location (08 Hour shift only) (Person having Knowledge of OHE/PSI Equipments and competent to attend the fault, insulator cleaning and other miscellaneous OHE/PSI Work during Power and traffic block in supervision of DFCCIL Official) (During Foot patrolling Person will carry Operating rod+Hammer+Flag+Spiner/Wrenches) Per day 6-8 TKM Foot patrolling.(Class C Salary)						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 13-Testing of equipment at TSS/SP/SP							2421360.00	Above/Below/Par
1	1	120.00	Per Day	7080.00	849600.00	AT Par	849600.00	
1	Description:- Charges for a team Testing & Commissioning (1 Sr Engg & 1 Asst Engg) with conventional testing kit(Appendix-1)							
2	2	24.00	Per Day	20060.00	481440.00	AT Par	481440.00	
2	Description:- Charges for Tan Delta kit							
3	3	36.00	Per Day	16520.00	594720.00	AT Par	594720.00	
3	Description:- Charges for CT Analyser kit							
4	4	4.00	Per Trip	17700.00	70800.00	AT Par	70800.00	
4	Description:- Mobilization Lumpsum for Individual line items							
5	5	180.00	Per Day	2360.00	424800.00	AT Par	424800.00	
5	Description:- Accomodation Charges							

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

Special Technical Criteria

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

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Similar nature of work, As per Tender Documents	No	No	Allowed (Mandatory)

Special Financial 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	As per Tender Documents	Yes	Yes	Allowed (Mandatory)
2	EMD submission receipt to be uploaded	Yes	Yes	Allowed (Mandatory)
3	Tender cost submission receipt to be uploaded.	Yes	Yes	Allowed (Mandatory)
4	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)

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Documents	Yes	Yes	Allowed (Mandatory)
2	Similar Nature of work, As per Tender Documents	Yes	Yes	Allowed (Mandatory)

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Contractor must have valid Electrical Contractor License issued from appropriate government authority to execute mentioned works in the Tender Documents.	Yes	Yes	Allowed (Mandatory)
2	Rates are including of GST.	No	No	Allowed (Mandatory)
3	Duly signed copy of bid document to be uploaded.	Yes	Yes	Allowed (Mandatory)
4	Affidavit As per format given in the Tender Documents as annexure-V	Yes	Yes	Allowed (Mandatory)
5	Tenderer should have successfully completed man power support service within last 05yrs.	Yes	Yes	Allowed (Mandatory)
6	Bidder should not quote the rate below the advertised value for Schedule-12. Bidder Quoting rates below the advertised value will be disqualified	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	OHE_PSI_miscdoc.pdf	Tender document
2	DFCC_circular_13_2017.pdf	DFCCIL circular for pay structure

Signed By: MAHESH KUMAR CHAUHAN

Designation : APM-Electrical-MZP