

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.

JANAPATH, BHOINAGAR, BHUBANESWAR - 22

[Electrical Division]

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PRICE BID FOR THE WORK UNDER SL. NO :- 02 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO AUTOMATED DRIVING TESTING SYSTEM (ADTS) OF RTO, BHUBANESWAR- II AT SUNDARPUR, BHUBANESWAR IN THE DISTRICT OF KHURDA.

BID REF NO :- 101/PM/ELECT/OPHWC/2023-24

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	INSTALLATION OF 63 KVA S/S.				
1	WPB GI Pole 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	Top Channel GI 100X50X6mm,3000 mm Long) 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	57.36	76.00	4,359.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
4	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84
5	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	76.00	508.44
6	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.711	76.00	434.04
7	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
8	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	76.00	879.32
9	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
10	Transformer Base GI Channel 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	76.00	4359.36
11	Transformer Base Support GI Channel 100 X 50 X 6 MM (515 mm long) (9.56Kg./Mtr, 2 No's) (Each 2x0.515x9.56= 9.85Kg)	Kg	9.85	76.00	748.60
12	Transformer Belting Angle 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	27	76.00	2052.00
13	Transformer Belting Support Angle 50 X 50 X 6MM GI (580 mm long)(4.5Kg./Mtr,2 No's) (Each 2x0.580x4.5= Kg)	Kg	5.22	76.00	396.72

14	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	76.00	684.00
15	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For L.A and 2.5 Mtr for raising, 11 Mtr. For AB Switch ,2.8 Mtr. for HG Fuse, 5x2 Mtr. For DTR neutral,(13-4.5)mtr. For DTR Body, 0.500 Mtr. For LTDB & AB switch operating handle, 3 Mtr. for fencing.)	Kg	154.816	97.50	15094.56
16	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00
17	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 63 KVA S/S	No	1	23818.60	23818.60
18	55mm ² All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00
19	4 Cx 95 mm ² LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	Mtr	15	479.61	7194.15
20	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
21	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
22	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
23	Disc insulator (B&S)70 KN polymer	No	3	1495.00	4485.00
24	H W fitting (B&S)70KN(3bolted)	Pair	3	455.00	1365.00
25	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
26	11 KV Pin Insulator polymer type	No	3	260.00	780.00
27	HT Stay Set (Complete)	Set	2	1365.00	2730.00
28	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
29	HT Stay Insulator	No.	2	65.00	130.00
30	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
31	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
32	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
33	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
34	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	2.4072	97.50	234.70
35	Danger plate	Kg	2	104.00	208.00
36	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.6018	97.50	58.68
37	Name Plate	No	1	104.00	104.00
38	Yellow colour paint for Background	Ltr	2	216.00	432.00
39	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				304,715.81
B	B. Stock, Storage & Insurance @ 3% of A				9,141.47
C	Sub Total (C=A+B)				313,857.29
D	T&P @ 2% of C				5,806.24
E	Contingency @ 3% of C				9,415.72
F	Transportation @ 7.5% of C				23,539.30
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				8,846.26
H	Erection Charges @ 20% on PSC Poles				

I	Erection Charges @ 10% for other materials				11,338.68
J	Total				372,803.48
40	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
41	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00
42	Fixing of stay set with 0.5 cum cement concret foundation 1:3:6 size (900x 600x900 mm) using 40 mm BHG metal with all labour and material except stay wire, stay set,stay insulator.	No	2	2250.00	4,500.00
43	Construction of earthing chamber including installation of earthing pipe.Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance,including installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.	No	7	3700.00	25,900.00
44	Laying of 4Cx95 sq. mm LT XLPE cable	Mtr	15	46.80	702.00
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					92,421.00
				Sub total Rs	465,224.48
II	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.4 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.(Including strut Pole)	No	4	29661.00	118644.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	137.664	76.00	10462.46
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	31.7184	97.50	3092.54
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	35.10432	76.00	2667.93
5	Danger plate	No	3	104.00	312.00
6	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.9027	97.50	88.01
7	GI barbed wire/Anticlimbing device	No	9	104.00	936.00
8	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	3.6108	97.50	352.05
9	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	12	260.00	3120.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	21	455.00	9555.00
11	Disc insulator (B&S) 70 KN polymer	No.	21	1495.00	31395.00
12	Non metallic ties 11 KV(for covered conductor)	No	12	251.00	3012.00
13	IPC for 70 sq. mm AAAC covered conductor	No	21	371.00	7791.00
14	Spike(GI) using 50x6 mm GI flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	6	332.00	1992.00

15	Earthing of Support (Coil Type)	No	3	215.80	647.40
16	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.786	97.50	76.64
17	HT Stay Set (Complete)	Set	4	1365.00	5460.00
18	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	5	162.50	812.50
19	HT Stay Insulator	No.	4	65.00	260.00
20	7/10 SWG Stay Wire , 15 Kg/stay	KG	60	97.50	5850.00
21	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	22.299	101.40	2261.12
22	Yellow colour paint for Background	Ltr	6	216.00	1296.00
23	Black colour paint for numbering	Ltr	1.5	286.00	429.00
A	A. Sub total				210,512.66
B	B. Stock, Storage & Insurance @ 3% of A				6,315.38
C	Sub Total (C=A+B)				216,828.04
D	T&P @ 2% of C				4,081.48
E	Contingency @ 3% of C				6,504.84
F	Transportation @ 7.5% of C				16,262.10
	Erection Charges @ 5% on poles				6,110.17
G	Erection Charges @ 10%				8,187.07
H	Total				257,973.70
24	Fixing of 11 KV line Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire. 5)Stay clamps with Nuts & bolts, including excvaton, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No	4	2250.00	9000.00
25	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	1.8	6500.00	11700.00
26	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.3375	6500.00	2193.75
	Total Material + Services Cost (J+K)				280,867.45
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	7	29661.00	207627.00
2	11 KV V cross arm	No	7	1053.00	7371.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	7	195.00	1365.00
4	Danger plate	No	7	104.00	728.00
5	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	2.11	97.50	205.73
6	GI barbed wire/Anticlimbing device	No	21	104.00	2184.00
7	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	8.43	97.50	821.93
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	21	260.00	5460.00

9	Spike(GI) using 50x6 mm GI flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	14	332.00	4648.00
10	Non metallic ties 11 KV(for covered conductor)	No	21	251.00	5271.00
11	Earthing of Support (Coil Type)	No	7	215.80	1510.60
12	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.83	97.50	178.43
13	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	10.15	101.40	1029.21
14	70 sq. mm AAAC XLPE covered conductor	Km	1.236	185220.00	228931.92
15	Yellow colour paint for Background	Ltr	14	216.00	3024.00
16	Black colour paint for numbering	Ltr	7	286.00	2002.00
A	A. Sub total				472,357.81
B	B. Stock, Storage & Insurance @ 3% of A				14,170.73
C	Sub Total (C=A+B)				486,528.54
D	T&P @ 2% of C				9,730.56
E	Contingency @ 3% of C				14,595.86
F	Transportation @ 7.5% of C				36,489.64
	Erection Charges @ 5% on poles				10,692.79
G	Erection Charges @ 10%				27,267.23
H	Total				585,304.62
17	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	3.15	6500.00	20475.00
18	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.7875	6500.00	5118.75
	Total Material + Services Cost (J+K)				610,898.37
	Total Rs.				1,356,990.30
	Cess @ 1%				13,569.90
	Total Estimated Cost				1,370,560.20
	Total Estimated Cost in Figures				1,370,560.00
EXCESS	<input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)	_____ %			
Quoted Amount in Figure					
Quoted Amount in word					

N:B- The Estimated cost is exclusive of GST.

Signature of Tenderer with seal

Sd/-
Asst. Project Manager (Elect)

Sd/-
D.M (Elect) I/C

Sd/-
Project Manager(Elect)