

**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 :- 07 AS PER IFB**

**NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-E+4-E+6-F+4-F TYPE QUARTERS AT RESERVE OFFICE, JAGATSINGHPUR IN THE DISTRICT OF JAGATSINGHPUR.**

**BID REF NO :- 04/PM/ELECT/OPHWC/2024-25**

**NAME &  
ADDRESS  
OF THE  
FIRM**

**SCHEDULE OF WORKS**

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
<b>I</b>	<b>CONSTRUCTION OF 11 KV LINE OF LENGTH 0.015 KM .</b>				
<b>A</b>	<b>11 KV T-OFF</b>				
<b>1</b>	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	Kg	22.94	97.50	2236.65
<b>2</b>	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.2884	97.50	515.62
<b>3</b>	11 KV pin insulator polymer	Set	3	260.00	780.00
<b>4</b>	H W fitting(B&S) 70KN, 3Bolt	No.	3	455.00	1365.00
<b>5</b>	Disc insulator (B&S) 70 KN polymer	No.	3	1495.00	4485.00
<b>6</b>	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
<b>7</b>	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	2	101.40	202.80
<b>A</b>	<b>A. Sub total</b>				<b>13,329.07</b>
<b>B</b>	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>399.87</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>13,728.94</b>
<b>D</b>	<b>T&amp;P @ 2% of C</b>				<b>274.58</b>
<b>E</b>	<b>Contingency @ 3% of C</b>				<b>411.87</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>1,029.67</b>
	<b>Erection Charges @ 5% on poles</b>				
<b>G</b>	<b>Erection Charges @ 10%</b>				<b>1,372.89</b>
<b>H</b>	<b>Total</b>				<b>16,817.95</b>
<b>B</b>	<b>11 KV CUT POINT WITH 90 DEGREE ANGLE</b>				
<b>1</b>	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
<b>2</b>	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	Kg	45.888	97.50	4474.08
<b>3</b>	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	97.50	1030.85

4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	11.70144	97.50	1140.89
5	Danger plate	No	1	104.00	104.00
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	0.3008	97.50	29.33
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2036	97.50	117.35
9	11 KV pin insulator polymer	Set	4	260.00	1040.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
12	Earthing of Support ( Coil Type )	No	1	215.80	215.80
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.262	97.50	25.55
14	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
15	55 Sq. mm AAAC	Km	0.04635	39000.00	1807.65
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
17	HT Stay Set (Complete)	Set	2	1365.00	2730.00
18	HT Stay Insulator	No.	2	65.00	130.00
19	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
20	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	7.433	101.40	753.71
21	Yellow colour paint for Background	Ltr	2	216.00	432.00
22	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	<b>A. Sub total</b>				<b>62,841.20</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>1,885.24</b>
C	<b>Sub Total (C=A+B)</b>				<b>64,726.43</b>
D	<b>T&amp;P @ 2% of C</b>				<b>1,168.66</b>
E	<b>Contingency @ 3% of C</b>				<b>1,941.79</b>
F	<b>Transportation @ 7.5% of C</b>				<b>4,854.48</b>
	<b>Erection Charges @ 5% on WPB poles</b>				<b>1,527.54</b>
G	<b>Erection Charges @ 10%</b>				<b>2,788.23</b>
H	<b>Total</b>				<b>77,007.14</b>
23	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 excvation, 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	2	2250.00	4500.00
24	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.45	6500.00	2925.00
25	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	<b>Total Material + Services Cost (J+K)</b>				<b>85,163.39</b>

<b>PART-II</b>	<b>Installation of 250 KVA 11/0.4KV sub station - 1 No.</b>				
1	11 Mtr Long (160x152)mm WPB GI Pole(30.44 Kg/mtr)-DP	No	2	29661.00	59322.00
2	9 Mtr. long 300 Kg. PSC Pole (For Raising of LT ABC)	No	1	3900.00	3900.00
3	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	2	260.00	520.00
4	EYE hook for XLPE Aerial bunched Cable	No	2	78.00	156.00
5	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No	2	84.50	169.00
6	Top Pressure Channel 100x50x6mm channel each 3000 mm long,2 Nos(9.56 K.g/mtr)	K.g	57.36	97.50	5592.60
7	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
8	Double Pole Belting Channel GI 75x40x4.8 mm (3000 mm long)(7.14Kg./Mtr., 2 No's.)	Kg	42.84	97.50	4176.90
9	50x50x6 mm GI Bracing Angle , 4.5 Kg/Mtr.,each angle Length 3.512 Mtr. ,2 Nos. angle required	Kg	31.608	97.50	3081.78
10	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	97.50	4176.90
11	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	97.50	652.28
12	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	97.50	556.82
13	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long ) (7.14 kg/mtr,2 Nos.)	Kg	42.84	97.50	4176.90
14	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	97.50	1128.08
15	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	97.50	1125.15
16	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
17	250 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	601213.06	601213.06
18	LT Distribution Box with MCCB, Aluminium Busbar of 3 Bay with kit kat fuse for 250 KVA S/S	No	1	62400.00	62400.00
19	55mm <sup>2</sup> All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00
20	1 Cx 400 mm <sup>2</sup> LT XLPE Cable(Un-Armoured) - FOR 250 KVA Trf.	Mtr	120	359.66	43159.20
21	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
23	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
24	Disc insulator (B&S)70 KN polymer	No	3	1495.00	4485.00
25	H W fitting (B&S)70KN(3bolted)	Pair	3	455.00	1365.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
27	11 KV Pin Insulator polymer type	No	3	260.00	780.00
28	HT Stay Set (Complete)	Set	2	1365.00	2730.00
29	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00

30	HT Stay Insulator	No.	2	65.00	130.00
31	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
34	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
35	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
36	Danger plate	Kg	2	104.00	208.00
37	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
38	Name Plate	No	1	104.00	104.00
39	Yellow colour paint for Background	Ltr	2	216.00	432.00
40	Black colour paint for numbering	Ltr	1	286.00	286.00
<b>A</b>	<b>A. Sub total</b>				<b>8,75,627.17</b>
<b>B</b>	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>26,268.82</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>9,01,895.98</b>
<b>D</b>	<b>T&amp;P @ 2% of C</b>				<b>16,826.14</b>
<b>E</b>	<b>Contingency @ 3% of C</b>				<b>27,056.88</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>67,642.20</b>
<b>G</b>	<b>Erection Charges @ 5% for transformer and joist pole cost including stock, storage &amp; insurance @3%</b>				<b>34,017.56</b>
<b>H</b>	<b>Erection Charges @ 20% on PSC Poles</b>				<b>803.40</b>
<b>I</b>	<b>Erection Charges @ 10% for other materials</b>				<b>15,693.87</b>
<b>J</b>	<b>Total</b>				<b>10,63,936.03</b>
41	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
42	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00
43	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
44	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
45	LT DB plinth	No	1	3000.00	3,000.00
46	DTR Plinth	No	1	25000.00	25,000.00
47	Laying of 1 Cx400 sq. mm LT XLPE cable	Mtr	120	72.00	8,640.00
48	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
49	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.(For PSC Pole)	Cum	0.375	6500.00	2437.50
					1,48,796.50
	<b>Sub total Rs</b>				<b>12,12,732.53</b>

III	Construction of LT Line using 4CX 95+1C X 95 +1C x16 sq. mm LT AB Cable- -0.3 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	10	3900.00	39,000.00
2	LT stay set complete	Set	5	676.00	3,380.00
3	7/12 SWG GI stay wire, Grade-2	Kg	60	97.50	5,850.00
4	LT stay clamp	Pair	5	143.00	715.00
5	LT stay set Insulator	No	5	39.00	195.00
6	<b>LT Accessories with Eye Hook and Clamp</b>				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	36	260.00	9,360.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	25	78.00	1,950.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	25	84.50	2,112.50
10	Suspension Clamp with EYE hook for ABC	No	11	442.00	4,862.00
11	4CX 95(P)+1C X 95(M) +1C x16(street light) LT AB Cable	Mtr	315	368.64	1,16,121.60
12	8 way service Distribution box with kit kat Fuse and Aluminium Bus Bar	No	4	5200.00	20,800.00
13	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No	36	113.08	4,070.88
14	GI Pipe for earthing (each 5th pole to earth)	No	2	1365.00	2,730.00
15	Coil Earthing	No	8	215.80	1,726.40
16	No-8 GI wire (Dia-4.6mm)	Kg	2.62	97.50	255.45
17	Danger plate (LT)	No	10	104.00	1,040.00
18	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	3.01	97.5	293.48
19	GI barbed wire/Anticlimbing device 3 kg per support	Kg	30	104	3120.00
20	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	12.04	97.5	1173.90
21	GI Nut, Bolt & washers of different sizes	Kg	5	101.40	507.00
22	Yellow colour paint for Background	Ltr	20	216.00	4,320.00
23	Black paint	Ltr	10	286.00	2,860.00
A	<b>TOTAL MATERIAL COST</b>				<b>2,26,443.21</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>6,793.30</b>
C	<b>Sub Total (C=A+B)</b>				<b>2,33,236.50</b>
D	<b>Contingency @3% of C</b>				<b>6,997.10</b>
E	<b>T &amp; P 2% of C</b>				<b>4,399.60</b>
F	<b>Transportation @ 7.5% of C</b>				<b>17,492.74</b>
G	<b>Erection Charges for PSC Pole @ 20%</b>				<b>8,034.00</b>
H	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				
I	<b>Erection Charges of other @ 10%</b>				<b>17,980.99</b>
J	<b>Sub Total Rs.</b>				<b>2,88,140.92</b>
<b>Civil and Services Works (As per Technical Specification)</b>					

24	Fixing of LT 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 excavation supply of 0.5 cum cement concrete foundation 1:2:4 size(500x500x800mm)using 20 mm BHG metal with all Labour and material(Excavation of earth will be done of size500x500x1500mm)	No	5	2250	11250
25	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	3.75	6500.00	24,375.00
26	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	2	3700.00	7,400.00
27	Dismantling of 9 mtr. PSC Pole	EA	8	920.61	7,364.88
K	<b>Total Services Cost</b>				<b>50,389.88</b>
				Sub total Rs	3,38,530.80
	Total Rs.				<b>16,53,244.68</b>
	Cess @1%				<b>16,532.45</b>
	Total Estimated Cost				<b>16,69,777.12</b>
	Total Estimated Cost in Figures				<b>16,69,777.00</b>
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/-  
DM (Elect) I/C

Sd/-  
Project Manager(Elect)