

**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 :- 16 AS PER IFB**

**NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 12-F AND 4-E TYPE QTRS. AT JEYPORE TOWN POLICE STATION IN THE DIST. OF KORAPUT.**

**BID REF NO.- 91/PM/ELECT/OPHWC/2023-24**

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS. 2023-24	AMOUNT IN RS.
<b>PART-I</b>	<b>11 KV LINE</b>				
1	9 Mtr. Long 150x150 mm RS Joist pole(34.6 Kg/Mtr.)Stud Pole	No	1	26313.3	26313.3
2	11 Mtr. Long 160X160 WPB Pole(30.44 Kg/Mtr.)	No.	22	34321.52	755073.44
3	Earthing support coil type GI	No	22	215.80	4747.60
4	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	5.764	97.50	561.99
5	11 KV 'V' cross arm(10.2 Kg each)	No.	18	1053.00	18954.00
6	GI Back clamp for 11 KV V Cross Arm	No.	18	104.00	1872.00
7	Top F clamp for PSC Pole ,2.9 Kg	No.	22	312.00	6864.00
8	11KV Pin Insulator polymer	No.	66	260.00	17160.00
9	Non metallic Ties 11 KV(for Covered conductor)	No	66	251.00	16566.00
10	Outdoor termination kit for covered conductor ,99 sq. mm	No	15	970.00	14550.00
11	IPC for AAA conductor(for covered conductor)	No	15	371.00	5565.00
12	Dead end clamp 11 KV	No	15	890.00	13350.00
13	100x50x6 mm channel for straight cross arm,1.2 Mtr.Long, 9.2 Kg/Mtr. .	Kg	154.56	84.50	13060.32
14	HT stay set complete	No.	8	1365.00	10920.00
15	11KV stay insulator	No.	8	65.00	520.00
16	HT stay clamp (1.9 Kg/Pair)	pair	8	162.50	1300.00
17	7/10 SWG stay wire, Grade-2	Kg	80	97.50	7800.00
18	GI Nuts and Bolts of assorted size	Kg	25	101.40	2535.00
19	11 KV 99 sq. mm single core XLPE insulated AAAC	Km	1.2915	225000.00	290587.50
20	GI Pipe earthing 40 Dia Medium gauge 3 mtrs long	No	4	1365.00	5460.00
21	No.6 GI wire for earthing	Kg	40	97.50	3900.00
22	Danger Board	No.	22	104.00	2288.00

23	GI barbed wire anticlimbing device 3 Kg per support	Kg	66	104.00	6864.00
24	PG clamp 11 KV 100 sq. mm single core XLPE insulated AAAC	No.	18	624.00	11232.00
25	3x95 sq. mm 11 KV XLPE cable (armoured)	Mtrs	800	742.30	593840.00
26	Heat shrinkable jointing Kit for 3Cx95 sq. mm 11 KV XLPE cable	No	4	14233.70	56934.80
27	J clamp for XLPE cable 3x95 sq. mm 11 KV XLPE cable	Nos.	16	155.84	2493.44
28	GI clamp for Danger Board GI flat(25x3 @0.6 Kg/Mtr.)510 mm Length(0.306 Kg/piece)	Kg	6.732	97.50	656.37
29	GI clamp for anticlimbing Device 25x3 mm flat (0.6 Kg/Mtr.)Flat of 0.510 Mtr. Length-4 Nos/pole	Kg	26.84	97.50	2616.90
30	Holding clamp for J clamp	Pair	16	162.50	2600.00
31	7/12 SWG GI wire for supporting of XLPE cable	Kg	246.4	97.50	24024.00
32	Lightning arrester(9 KV,5 KA)	Nos.	6	1274.00	7644.00
A	<b>TOTAL MATERIAL COST )</b>				<b>1,928,853.66</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				57,865.61
C	<b>Sub Total (C=A+B)</b>				<b>1,986,719.27</b>
D	<b>Contingency @3% of C</b>				<b>59,601.58</b>
E	<b>T &amp; P 2% of C</b>				<b>39,734.39</b>
F	<b>Transportation @ 7.5% of C</b>				<b>149,003.95</b>
G	<b>Erection Charges for PSC Pole @ 20%</b>				
H	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				40,241.42
I	<b>Erection Charges of other @ 10%</b>				118,189.10
J	<b>Sub Total Rs.</b>				<b>2,393,489.70</b>
	Stay concreting in ratio 1:2:4	Nos.	8	1235.58	9884.64
33	Concreting of Poles in ratio 1:1:5:3(500x500x1800mm)-0.45 Cu mtr.	Nos.	22	2880.00	63360.00
34	Couping of poles in ratio 1:1:5:3(500x500x475)=0.11875 Cu. Mtr.	Nos.	22	720.00	15840.00
35	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	4	1600.00	6400.00
	<b>TOTAL RS.(PART-I)</b>				<b>2,488,974.34</b>
<b>PART-II</b>	<b>DP STRUCTURE WITH AB SWITCH</b>				
1	11 Mtr. Long 160X160 WPB Pole(30.44 Kg/Mtr.)	No	2	34321.52	68643.04
2	100x50x6mm Pressure Channel each 2.8 mtr long, 2 Nos.,9.2 Kg/Mtr.	K.g	51.52	97.50	5023.20
3	AB switch &Base mounting channel(GI)(75x40x6)mm,2.8mtr long 4 No(6.8Kg/mtr)with Galvanisation	K.g	76.16	97.50	7425.60
4	Operating /handle channel AB switch (GI)(75x40x6)mm,1 mtr long (6.8Kg/mtr)	K.g	6.8	97.50	663.00

5	50x50x6mm angle for cross bracing of DP 3.5 Mtr. Long 2 Nos.(4.5 Kg/Mtr.)	K.g	31.5	97.50	3071.25
6	Disc insulator 45 KN (B&S) Polymer	No.	6	1118.00	6708.00
7	11 KV HW fitting (B&S)45 KN	No.	6	338.00	2028.00
8	11KV AB switch( 3 pole,400 Amp,50Hz)	Set	1	15405.00	15405.00
9	HT stay set (Complete)	No.	4	1365.00	5460.00
10	stay Insulator, Type-C	No.	4	65.00	260.00
11	Stay clamp	pair	4	162.50	650.00
12	7/10 SWG GI Saty wire, grade-2	Kg	40	97.50	3900.00
13	GI pipe earthing 40 mm dia medium gauge,3 Mtr. Long	No	2	1365.00	2730.00
14	No. 6 GI wire for earthing	Kg	20	97.50	1950.00
15	Earthing of support coil type	No	2	215.80	431.60
16	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.524	97.50	51.09
17	Danger Board	No.	2	104.00	208.00
18	GI clamp for danger Board GI Flat (25x3 mm @ 0.6 Kg/Mtr.) 0.51 Mtr. Length-4 Nos./Pole(1.22 Kg/Pole)	Kg	0.612	97.50	59.67
19	GI clamp for anticlimbing Device 25x3 mm flat (0.6 Kg/Mtr.)Flat of 0.510 Mtr. Length- 4 Nos/pole	Kg	2.44	97.50	237.90
20	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	6	104.00	624.00
21	GI Nut and bolt of assorted size	Kg	10	101.40	1014.00
22	Sundries (Al. binding tape, insulation tape, paint etc.)	LS	1	650.00	650.00
<b>A</b>	<b>TOTAL MATERIAL COST (FOR-2020-21)</b>				<b>127,193.35</b>
<b>B</b>	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>3,815.80</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>131,009.15</b>
<b>D</b>	<b>Contingency @3% of C</b>				<b>3,930.27</b>
<b>E</b>	<b>T &amp; P 2% of C</b>				<b>2,620.18</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>9,825.69</b>
<b>G</b>	<b>Erection Charges for PSC Pole @ 20%</b>				
<b>H</b>	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				<b>3,535.12</b>
<b>I</b>	<b>Erection Charges of other @ 10%</b>				<b>6,030.68</b>
<b>J</b>	<b>Sub Total Rs.</b>				<b>156,951.09</b>
23	Stay concreting in ratio 1:2:4(0.5x0.5x0.8)Mtr.	Nos.	4	1235.58	4942.32
24	Concreting of Poles in ratio 1:1:5:3(500x500x1800mm)-0.45 Cu mtr.	Nos.	2	2880.00	5760.00
25	Couping of poles in ratio 1:1:5:3(500x500x475)=0.11875 Cu. Mtr.	Nos.	2	720.00	1440.00
26	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	2	1600.00	3200.00
	<b>Total Rs.(Part-IV)</b>				<b>172,293.41</b>
<b>PART-III</b>	<b>100 KVA 11/0.4KV sub station</b>				

1	11 Mtr. Long 160X160 WPB Pole(30.44 Kg/Mtr.)	No	2	34321.52	68643.04
2	Pressure Channel (GI)100x50x6mm each 2.8 mtr long, 2 Nos.(9.2K.g/mtr)with Galvanisation	K.g	51.52	97.50	5023.20
3	AB switch &HG fuse mounting channel(GI)(75x40x6)mm,2.8mtr long 4 No(6.8Kg/mtr)with Galvanisation	K.g	76.2	97.50	7429.50
4	Brassing Channel 75x40x6 mm , 2.8 Mtr. Long 2 Nos.(6.8 Kg/Mtr.)	Kg	38.08	97.50	3712.80
5	50x50x6 mm angle for cross bracing of DP 3.5 meter Long 2 Nos. (4.5 Kg/Mtr.)	Kg	31.5	97.50	3071.25
6	GI angle for mounting LT Distribution Box 50X50X6 mm Angle,1.0 mtr. Long , 2 Nos. per DT (4.5 Kg/Mtr.) .	Kg	13.5	97.50	1316.25
7	11KV AB switch( 3 pole,400 Amp,50Hz)	Set	1	15405.00	15405.00
8	11KV HG fuse (3 pole,400 Amp)with PI	Set	1	14989.00	14989.00
9	9KV 5KA LA, Station class	No.	3	1274.00	3822.00
10	Disc insulator 45 KN (B&S) Polymer	No.	3	1118.00	3354.00
11	11 KV HW fitting (B&S)2 bolted	No.	3	169.00	507.00
12	HT stay set (Complete)	No.	4	1365.00	5460.00
13	stay Insulator, Type-C	No.	4	65.00	260.00
14	Stay clamp	pair	4	162.50	650.00
15	7/10 SWG GI Saty wire, grade-2	Kg	40	97.50	3900.00
16	GI pipe earthing 40 mm dia medium gauge,3 Mtr. Long	No	7	1365.00	9555.00
17	GI Flat 25x6 mm	Kg	70	97.50	6825.00
18	LT Distribution box with MCCB, Aluminium Bus bar of 2- bay Kitkat Fuse for 100 KVA S/S	No	1	31744.70	31744.70
19	100 KVA ,11/0.4 Kv (AL) Transformer BIS Energy Level-II	No.	1	152100.00	152100.00
20	GI Nut and bolt of assorted size	Kg	25	101.40	2535.00
21	55 sq. mm AAAC for jumpering	Km	0.05	39000.00	1950.00
22	LT 3 core 95 sq. mm PVC cable(Un-armoured)	Mtr	15	432.90	6493.50
23	Earthing coil for support	No	2	215.80	431.60
24	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.524	97.50	51.09
25	Danger Board	No.	1	104.00	104.00
26	GI clamp for danger Board GI Flat (25x3 mm @ 0.6 Kg/Mtr.) 0.51 Mtr. Length-4 Nos./Pole(1.22 Kg/Pole)	Kg	0.612	104.00	63.65
27	GI clamp for anticlimbing Device 25x3 mm flat (0.6 Kg/Mtr.)Flat of 0.510 Mtr. Length-4 Nos/pole	Kg	2.44	104.00	253.76
28	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	6	104.00	624.00
29	Sundries	LS	1	1000.00	1000.00
A	<b>TOTAL MATERIAL COST)</b>				<b>351,274.34</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>10,538.23</b>
C	<b>Sub Total (C=A+B)</b>				<b>361,812.57</b>
D	<b>Contingency @3% of C</b>				<b>10,854.38</b>

<b>E</b>	<b>T &amp; P 2% of C</b>				<b>7,236.25</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>27,135.94</b>
<b>G</b>	<b>Erection Charges for PSC Pole @ 20%</b>				
<b>H</b>	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				11,368.27
<b>I</b>	<b>Erection Charges of other @ 10%</b>				13,444.73
<b>J</b>	<b>Sub Total Rs.</b>				<b>431,852.14</b>
30	Concreting of 11 Mtr. WPB Poles in ratio 1:1:5:3(500x500x1800mm)-0.45 Cu mtr.	Nos.	2	2880.00	5760.00
31	Stay concreting in ratio 1:2:4(0.5x0.5x0.8)Mtr.	Nos.	4	1235.58	4942.32
32	Couping of poles in ratio 1:1:5:3(500x500x475)=0.11875 Cu. Mtr.	Nos.	2	720.00	1440.00
33	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	7	1600.00	11200.00
34	Filling Sand @ 431.60/cmt for(8ft x 12ft x 1/2ft) = 48 Cft= 1.359Cm. i.e 1.359 x 431.60= 586.54 or 587.00	Ls	1	587.00	587
35	40MM Size HBG Metal @ Rs.981.36/cmt for (8ft x 12ft x 1/4ft) = 24Cft = 0.679Cmt i.e. 0.679 x 981.36 = 666.75 or say Rs. 667.00	Ls	1	667.00	667
36	MS Grill gate 1.5mtr (h) x 1.5mtr (w) made of 35x35x6 mm Angel and 25x6mm flat (Angel for outside boarder with horizontal & vertical crossing for i)35x35x6mm MS Angel=1.5mtr x 4 = 6mtr @ 3kg/mtr = 18kg@ Rs.93.00/kg=Rs.1674.00/- (with galvanisation charges) ii) 25x6 mm GI flat = 1.5mtr x8x2=24mtr@1.2kg/mtr=28.8kg@Rs.93.00/kg= Rs.2678.80 iii) Painting of gate with 2 coat= Rs.200/- (LS) Total = Rs.(1674+2678+200)= Rs.4552.80	No	1	4552.00	4552
37	Brick Boundary wall for fencing of 5" height with 9" wall for area 8ft x 12ft	Ls	1	40000.00	40000
38	Plinth (detail as per SOUTHCO specification )	Ls	1	21269.55	21269.55
	<b>Total Rs.(Part-III)</b>				<b>522,270.01</b>
<b>PART-IV</b>	<b>LT LINE-0.37 Km</b>				
1	9 Mtr. Long 300 KG PSC Pole	Nos.	10	3,900.00	39,000.00
2	Earthing support coil type GI	No	10	215.80	2158.00
3	L. T Stay set (Complete )	Set	7	676.00	4732.00
4	L. T Stay Insulator	No.	7	39.00	273.00
5	L. T Stay Clamp(1.4 K.g/Pair)	Pair	7	143.00	1001.00
6	7/12 SWG Stay Wire	Kg	56	97.50	5460.00
7	GI Nuts and Bolts of assorted size	Kg	10	101.40	1014.00
8	3x50+1x35+1x16 sqmm LT XLPE AB Cable	Km	0.39	182000.00	70707.00
9	Suspension clamp with eye Hook	pair	2	442.00	884.00
10	Dead end clamp suitable for XLPE cable	No	18	84.50	1521.00
11	Pole clamp for eye Hook for AB cable	pair	20	260.00	5200.00
12	Earthing Coil	No	10	215.80	2158.00

13	No.8 GI wire (dia 4.6 mm )0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	2.62	97.50	255.45
14	Danger Board	No.	10	104.00	1040.00
15	GI clamp for danger Board GI Flat (25x3 mm @ 0.6 Kg/Mtr.) 0.51 Mtr. Length-4 Nos./Pole(1.22 Kg/Pole)	Kg	3.06	104.00	318.24
16	GI clamp for anticlimbing Device 25x3 mm flat (0.6 Kg/Mtr.)Flat of 0.510 Mtr. Length-4 Nos/pole	Kg	12.20	104.00	1268.80
17	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	30	104.00	3120.00
18	Sundries	LS	1	1300.00	1300.00
<b>A</b>	<b>TOTAL MATERIAL COST (FOR-2020-21)</b>				<b>141,410.49</b>
<b>B</b>	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>4,242.31</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>145,652.80</b>
<b>D</b>	<b>Contingency @3% of C</b>				<b>4,369.58</b>
<b>E</b>	<b>T &amp; P 2% of C</b>				<b>2,913.06</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>10,923.96</b>
<b>G</b>	<b>Erection Charges for PSC Pole @ 20%</b>				<b>8,034.00</b>
<b>H</b>	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				
<b>I</b>	<b>Erection Charges of other @ 10%</b>				<b>10,548.28</b>
<b>J</b>	<b>Sub Total Rs.</b>				<b>182,441.69</b>
19	Stay concreting in ratio 1:2:4(0.5x0.5x0.8)Mtr.	Nos.	7	1235.58	8649.06
20	Concreting of Poles in ratio 1:1:5:3(500x500x1500mm)-0.375 Cu mtr.	Nos.	10	2400.00	24000.00
21	Couping of poles in ratio 1:1:5:3(500x500x475)=0.11875 Cu. Mtr.	Nos.	10	720.00	7200.00
	<b>Total Rs.(Part-IV)</b>				<b>222,290.75</b>
	Total Rs.				<b>3,405,828.51</b>
	Cess @1%				<b>34,058.29</b>
	Total Estimated Cost				<b>3,439,886.79</b>
	Total Estimated Cost in Figures				<b>3,439,887.00</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/-  
Dy. Manager (Elect) I/C

Sd/-  
Project Manager(Elect.)