

**THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.**  
**JANAPATH, BHOINAGAR, BHUBANESWAR - 22**  
**[Electrical Division]**  
**Ph: 0674-2541545, 2542921, Fax: 0674-2541543**  
**E-mail :- pmelectricalophwc2021@gmail.com, Website: www.ophwc.nic.in**

**PRICE BID FOR THE WORK UNDER SL. NO :- 04 AS PER IFB**

**NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 24-F AND 30-F TYPE STAFF QUARTERS AT 6 TH. I.R. BN., NALIPADA, KHURDA.**

**BID REF NO :- 92/PM/ELECT/OPHWC/2023-24**

**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>1</b>	<b>INSTALLATION OF 250 KVA S/S.</b>				
1	WPB GI Pole 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	9 Mtr Long 300 KG PSC Pole(for raising of LT ABC)	No	1	3900.00	3,900.00
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 Bunch Cable	No	2	84.50	169.00
6	Straight Channel GI 100X50X6mm,(1200 mm Long) 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	Kg	45.888	97.50	4,474.08
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 75X40X 4.8mm., 7.14KG/Mtr., each channel length 3.0 Mtr., 2 no's channel required =( 6x7.14x4.3)	Kg	42.84	97.50	4,176.90
9	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 4.927 mtr., 6 nos angle required = (6*4.5*4.927)	Kg	31.608	97.50	3,081.78
10	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	97.50	4,176.90
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 (AL) Transformer BIS Energy Level-II	No	1	601213.06	601213.06
18	LT Distrubution Box with MCCB, Aluminim Busbar of 3 Bay with kit kat Fuse for 250 KVA S/S.	No	1	62400.00	62400.00
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
20	1Cx400 sq. mm LT XLPE cable(Un-Armoured)	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	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
25	11 KV H/W fitting polymer type	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
A	<b>A. Sub total</b>				<b>874,508.65</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>26,235.26</b>
C	<b>Sub Total (C=A+B)</b>				<b>900,743.91</b>
D	<b>T&amp;P @ 2% of C</b>				<b>16,803.10</b>
E	<b>Contigency @ 3% of C</b>				<b>27,022.32</b>
F	<b>Transportation @ 7.5% of C</b>				<b>67,555.79</b>
G	<b>Erection Charges @ 5% for transformer and joist pole cost including stock, storage &amp; insurance @3%</b>				<b>34,017.56</b>
H	<b>Erection Charges @ 20% on PSC Poles</b>				<b>803.40</b>
I	<b>Erection Charges @ 10% for other materials</b>				<b>15,578.66</b>
J	<b>Total</b>				<b>1,062,524.74</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	Laying of 1Cx400 sq. mm LT XLPE cable	Mtr	120	72.00	8,640.00
46	LT DB Plinth	No	1	3000.00	3,000.00
47	DTR Plinth	No	1	25000.00	25,000.00
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(for PSC Pole) Cu. Mtr.	Cum	0.375	6500.00	2,437.50
					148,796.50
				Sub total Rs	1,211,321.24
I	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.1 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	Kg	45.888	97.50	4474.08
3	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	0.309	97.50	30.13
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	5	260.00	1300.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	455.00	4095.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1495.00	13455.00
12	Earthing of Support ( Coil Type )	EA	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	9	624.00	5616.00
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
16	HT Stay Set (Complete)	Set	2	1365.00	2730.00
17	HT Stay Insulator	No.	2	65.00	130.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00

19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	7.433	101.40	753.71
20	Yellow colour paint for Background	Ltr	2	216.00	432.00
21	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				69,016.35
B	B. Stock, Storage & Insurance @ 3% of A				2,070.49
C	Sub Total (C=A+B)				71,086.84
D	T&P @ 2% of C				1,295.85
E	Contigency @ 3% of C				2,132.61
F	Transportation @ 7.5% of C				5,331.51
	Erection Charges @ 5% on poles				1,527.54
G	Erection Charges @ 10%				3,424.19
H	Total				84,798.54
22	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
23	Concreting Ratio 1:1:5:3(500 mmx500mmx2200 mm)=0.55 Cu. Mtr.	Cum	0.45	6500.00	2925.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	Total Material + Services Cost (J+K)				92,954.79
B	11 KV PIN POINT				
1	55 sq. mm AAAC	Km	0.04635	39000.00	1807.65
A	A. Sub total				1,807.65
B	B. Stock, Storage & Insurance @ 3% of A				54.23
C	Sub Total (C=A+B)				1,861.88
D	T&P @ 2% of C				37.24
E	Contigency @ 3% of C				55.86
F	Transportation @ 7.5% of C				139.64
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				186.19
H	Total				2,280.80
III	Construction of LT Line using 4x95+1x95+1X16 sq. mm LT AB Cable- -0.485 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	16	3900.00	62,400.00
2	LT stay set complete	Set	8	676.00	5,408.00
3	7/12 SWG GI stay wire, Grade-2	Kg	96	97.50	9,360.00
4	LT stay clamp	Pair	8	143.00	1,144.00
5	LT stay set Insulator	No	8	39.00	312.00
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	28	260.00	7,280.00

7	Eye Hook for XLPE Aerial Bunched Cable	No	16	78.00	1,248.00
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	16	84.50	1,352.00
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	12	442.00	5,304.00
10	4 Cx95(P)+1Cx95(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	509.25	368.64	187,729.92
	8 way service Distribution box with Kitkat fuse and Aluminium Bus bar	No	16	5200.00	83,200.00
11	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	10	113.08	1,130.80
13	Pipe Earthing(each 5 th Pole to Earth)	No	3	1365.00	4,095.00
14	Coil Earthing	No	13	215.80	2,805.40
15	No-8 GI wire (Dia-4.6mm)	Kg	4.2	97.50	409.50
16	Danger plate (LT)	No	16	104.00	1,664.00
17	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	4.81	97.5	468.98
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	48	104	4992.00
19	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	19.26	97.5	1877.85
20	GI Nut, Bolt & washers of different sizes	Kg	8	101.40	811.20
21	Yellow colour paint for Background	Ltr	32	216.00	6,912.00
22	Black paint	Ltr	16	286.00	4,576.00
A	<b>TOTAL MATERIAL COST</b>				<b>394,480.65</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				11,834.42
C	<b>Sub Total (C=A+B)</b>				<b>406,315.06</b>
D	<b>Contingency @3% of C</b>				<b>12,189.45</b>
E	<b>T &amp; P 2% of C</b>				<b>7,707.72</b>
F	<b>Transportation @ 7.5% of C</b>				<b>30,473.63</b>
G	<b>Erection Charges for PSC Pole @ 20%</b>				12,854.40
H	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				
I	<b>Erection Charges of other @ 10%</b>				32,111.39
J	<b>Sub Total Rs.</b>				<b>501,651.66</b>

Civil and Services Works (As per Technical Specification)					
23	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	8	2250	18000
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	6	6500.00	39,000.00
25	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	3	3700.00	11,100.00
K	<b>Total Services Cost</b>				<b>68,100.00</b>
	<b>Total Material + Services Cost (J+K)</b>				<b>569,751.66</b>
	Total Rs.				<b>1,876,308.49</b>
	Cess @ 1%				<b>18,763.08</b>
	Total Estimated Cost				<b>1,895,071.57</b>
	Total Estimated Cost in Figures				<b>1,895,072.00</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.)