

**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 DISTRICT EXCISE OFFICE AT KHURDA IN THE DISTRICT OF KHURDA.**

**BID REF NO :- 90/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>I</b>	<b>CONSTRUCTION OF 11 KV LINE OF LENGTH 0.22 KM .</b>				
<b>A</b>	<b>DP WITH AB SWITCH</b>				
<b>1</b>	WPB (GI) Pole 160x152 (13Mtr. Long, 30.44KG/Mtr.)	No	2	34,322.00	68644.00
<b>2</b>	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 2.3 mtr., 2 no's channel required =(2x9.56x2.3)	Kg	57.36	76.00	4359.36
<b>3</b>	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	Kg	3.9648	97.50	386.57
<b>4</b>	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
<b>5</b>	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
<b>6</b>	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.712	76.00	434.11
<b>7</b>	Double pole belting Channel 75x40x4.8 mm ,7.14 Kg/mtr., each channel length 3.0 Mtr.,4 nos channel required.	Kg	85.68	76.00	6511.68
<b>8</b>	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 2.671 mtr., 4 nos angle required = (4.5x2.671x4)	Kg	63.216	76.00	4804.42
<b>9</b>	Danger Plate, 2 no's.	No.	2	104.00	208.00
<b>10</b>	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's = (2x0.59x0.510)	Kg	0.6018	97.50	58.68
<b>11</b>	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required ( 1 Pair)	Pair	2	162.50	325.00
<b>12</b>	H.T. Stay set (Complete )	Set	2	1,365.00	2730.00
<b>13</b>	H.T. Stay Insulator Type-C	No.	2	65.00	130.00
<b>14</b>	7/10 SWG Stay Wire 15kg /stay	K.g.	30	97.50	2925.00
<b>15</b>	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	2	1,365.00	2730.00
<b>16</b>	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 5x2.36	Kg	48.38	97.50	4717.05

17	GI barbed wire anticleimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	6	104.00	624.00
18	Back Clamp for anticleimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	2.4072	97.50	234.70
19	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	3.00	4615	13,845.00
20	AB Switch (11KV,400A.3pole,50Hz)	Set	1.00	15405	15,405.00
21	11 KV pin insulator polymer	No.	3	260.00	780.00
22	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
23	Disc insulator (B&S) 70 KN polymer	No.	6	1,495.00	8970.00
24	PG Clamp for 55 sq.mm AAA conductor	No	6	624.00	3744.00
25	GI Nut , Bolt & Washer of different sizes (12.261 Kg each DP without AB Switch)	Kg	13.718	101.40	1391.01
26	Black Paint	Ltr	1	286.00	286.00
27	Yellow Colour Paint for Background	Ltr	2	216.00	432.00
A	<b>A. Sub total</b>				<b>151,169.85</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>4,535.10</b>
C	<b>Sub Total (C=A+B)</b>				<b>155,704.94</b>
D	<b>T&amp;P @ 2% of C</b>				<b>2,932.00</b>
E	<b>Contingency @ 3% of C</b>				<b>4,671.15</b>
F	<b>Transportation @ 7.5% of C</b>				<b>11,677.87</b>
	<b>Erection Charges @ 5% on poles</b>				<b>3,535.17</b>
G	<b>Erection Charges @ 10%</b>				<b>7,589.66</b>
H	<b>Total</b>				<b>186,110.79</b>
28	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	2	2250.00	4500.00
29	Concreting Ratio 1:1:5:3(500 mmx500mmx2200 mm)=0.55 Cu. Mtr.	Cum	1.1	6500.00	7150.00
30	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6500.00	1462.50
31	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
	<b>Total Material + Services Cost (J+K)</b>				<b>206,623.29</b>
<b>B</b>	<b>11 KV CUT POINT WITH 90 DEGREE ANGLE</b>				
1	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	Kg	22.944	76.00	1743.74
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.2864	97.50	515.42

3	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.85072	76.00	444.65
4	11 KV pin insulator polymer	Set	4	260.00	1040.00
5	H W fitting(B&S) 70KN, 3Bolt	No.	3	455.00	1365.00
6	Disc insulator (B&S) 70 KN polymer	No.	3	1495.00	4485.00
7	PG Clamp for 55 sq. mm AAAC	No	3	624.00	1872.00
8	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	1	162.50	162.50
9	HT Stay Set (Complete)	Set	1	1365.00	1365.00
10	HT Stay Insulator	No.	1	65.00	65.00
11	7/10 SWG Stay Wire , 15 Kg/stay	KG	15	97.50	1462.50
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	3.7165	101.40	376.85
A	<b>A. Sub total</b>				<b>14,897.68</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>446.93</b>
C	<b>Sub Total (C=A+B)</b>				<b>15,344.61</b>
D	<b>T&amp;P @ 2% of C</b>				<b>243.96</b>
E	<b>Contingency @ 3% of C</b>				<b>460.34</b>
F	<b>Transportation @ 7.5% of C</b>				<b>1,150.85</b>
	<b>Erection Charges @ 5% on poles</b>				
G	<b>Erection Charges @ 10%</b>				<b>1,219.80</b>
H	<b>Total</b>				<b>18,419.55</b>
13	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	1	2250.00	2250.00
	<b>Total Material + Services Cost (J+K)</b>				<b>20,669.55</b>
C	<b>11 KV PIN POINTS WITH WPB</b>				
1	55 sq. mm AAAC	Km	0.0309	39000.00	1205.10
A	<b>A. Sub total</b>				<b>1,205.10</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>36.15</b>
C	<b>Sub Total (C=A+B)</b>				<b>1,241.25</b>
D	<b>T&amp;P @ 2% of C</b>				<b>24.83</b>
E	<b>Contingency @ 3% of C</b>				<b>37.24</b>
F	<b>Transportation @ 7.5% of C</b>				<b>93.09</b>
	<b>Erection Charges @ 5% on poles</b>				
G	<b>Erection Charges @ 10%</b>				<b>124.13</b>
H	<b>Total</b>				<b>1,520.53</b>
II	<b>INSTALLATION OF 63 KVA S/S.</b>				
1	WPB (GI) Pole 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No	2	29661.00	59322.00
2	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
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, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
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	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
11	50x6mm GI Flat for earthing, 2.36kg/mtr., (12.5 Mtr. For L.A, 3 Mtr for AB Switch Body, 2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 20.5x2.36	Kg	154.81	97.50	15093.98
12	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00
13	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	23818.60	23818.60
14	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
15	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7194.15
16	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
17	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
18	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
19	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
20	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
21	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
22	11 KV Pin Insulator polymer type	No	3	260.00	780.00
23	HT Stay Set (Complete)	Set	2	1365.00	2730.00
24	HT Stay Insulator	No.	2	65.00	130.00
25	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
26	7/10 SWG Stay Wire	KG	30	97.50	2925.00
27	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
28	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
29	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
30	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
31	Danger plate	Kg	2	104.00	208.00
32	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
33	Name Plate	No	1	104.00	104.00
	<b>Structure Numbering and marking</b>				
34	Yellow colour paint for Background	Ltr	2	216.00	432.00
35	Black colour paint for numbering	Ltr	1	286.00	286.00
A				<b>A. Sub total</b>	<b>297,158.55</b>
B				<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>	<b>8,914.76</b>
C				<b>Sub Total (C=A+B)</b>	<b>306,073.30</b>
D				<b>T&amp;P @ 2% of C</b>	<b>5,650.58</b>
E				<b>Contingency @ 3% of C</b>	<b>9,182.20</b>

F	Transportation @ 7.5% of C				22,955.50
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				10,560.36
J	Total				363,268.20
36	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
37	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
38	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
39	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
40	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	15	46.80	702.00
41	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
42	DTR Plinth	No	1	25000.00	25,000.00
					117,421.00
	Sub total Rs				480,689.20
IV	<b>Dismantling</b>				
1	Dismantling of 11-13 Mtr. Joist Pole	EA	1	1350.00	1350.00
	Total Estimated Cost				710,852.58
	Total Estimated Cost in Figures				710,853.00
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/-  
DM (Elect.) I/C

Sd/-  
Project Manager(Elect.)