

**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 :- 02 AS PER IFB****NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 1-E+6-F TYPE QUARTERS AT BALUGAON FIRE STATION IN THE DISTRICT OF KHURDA.****BID REF NO :- 47/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 63 KVA S/S.</b>				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
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 Areial bunched cable	Pair	2	260.00	520.00
4	Eye Hook for XLPE Areial 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	Top channel GI 100x50x6 mm (9.56 kg/Mtr.,2 Nos.)Each channel length 3000 mm Long	Kg	57.36	76.00	4359.36
7	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
8	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	76.00	3255.84
9	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
10	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
11	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
12	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
13	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
14	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
15	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

16	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
17	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
18	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
19	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
20	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
21	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00
22	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
23	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
24	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7194.15
25	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
26	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
27	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
28	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
29	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
30	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
31	11 KV Pin Insulator polymer type	No	3	260.00	780.00
32	HT Stay Set (Complete)	Set	2	1365.00	2730.00
33	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
34	HT Stay Insulator	No.	2	65.00	130.00
35	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
36	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
37	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
38	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
39	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
40	Danger plate	Kg	2	104.00	208.00
41	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
42	Name Plate	No	1	104.00	104.00
43	Yellow colour paint for Background	Ltr	2	216.00	432.00
44	Black colour paint for numbering	Ltr	1	286.00	286.00
A				<b>A. Sub total</b>	<b>306,428.55</b>
B				<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>	<b>9,192.86</b>
C				<b>Sub Total (C=A+B)</b>	<b>315,621.41</b>

D	T&P @ 2% of C				6,168.54
E	Contingency @ 3% of C				9,468.64
F	Transportation @ 7.5% of C				23,671.61
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				8,522.42
H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				11,761.06
J	Total				376,017.08
45	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
46	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00
47	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
48	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
49	Laying of 4Cx35 sq. mm LT XLPE cable	Mtr	15	46.80	702.00
50	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
51	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.375	6500.00	2,437.50
					94,858.50
	Sub total Rs				470,875.58
I	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.05 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	Kg	91.776	76.00	6974.98
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	21.1456	97.50	2061.70
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	23.40288	76.00	1778.62
5	Danger plate	No	2	104.00	208.00
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	0.6018	97.50	58.68
7	GI barbed wire/Anticlimbing device	No	6	104.00	624.00

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	2.4072	97.50	234.70
9	11 KV pin insulator polymer	Set	8	260.00	2080.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	12	455.00	5460.00
11	Disc insulator (B&S) 70 KN polymer	No.	12	1495.00	17940.00
12	Earthing of Support ( Coil Type )	EA	2	215.80	431.60
13	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
14	PG Clamp for 80 sq. mm AAAC	No	12	689.00	8268.00
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	4	162.50	650.00
16	HT Stay Set (Complete)	Set	4	1365.00	5460.00
17	HT Stay Insulator	No.	4	65.00	260.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	60	97.50	5850.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	14.866	101.40	1507.41
20	Yellow colour paint for Background	Ltr	4	216.00	864.00
21	Black colour paint for numbering	Ltr	1	286.00	286.00
A	<b>A. Sub total</b>				<b>114,082.67</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>3,422.48</b>
C	<b>Sub Total (C=A+B)</b>				<b>117,505.15</b>
D	<b>T&amp;P @ 2% of C</b>				<b>2,350.10</b>
E	<b>Contingency @ 3% of C</b>				<b>3,525.15</b>
F	<b>Transportation @ 7.5% of C</b>				<b>8,812.89</b>
	<b>Erection Charges @ 5% on poles</b>				<b>2,731.25</b>
G	<b>Erection Charges @ 10%</b>				<b>5,029.36</b>
H	<b>Total</b>				<b>139,953.90</b>
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	4	2250.00	9000.00
23	Concreting Ratio 1:1:5:3(500 mmx500mmx2200 mm)=0.55 Cu. Mtr.	Cum	0.9	6500.00	5850.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.225	6500.00	1462.50
	<b>Total Material + Services Cost (J+K)</b>				<b>156,266.40</b>
<b>B</b>	<b>11 KV PIN POINTS WITH WPB</b>				
1	WPB GI Pole160X152(13 Mtr. Long ,30.44 Kg/Mtr.)	No	1	26516.95	26516.95
2	11 KV V cross arm	No	1	1053.00	1053.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	1	195.00	195.00
4	Danger plate	No	1	104.00	104.00

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	0.3	97.50	29.25
6	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2	97.50	117.00
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	3	260.00	780.00
9	Earthing of Support ( Coil Type )	No	1	215.80	215.80
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.26	97.50	25.35
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	1.45	101.40	147.03
12	80 sq. mm AAAC	Km	0.1545	55900.00	8636.55
13	Yellow colour paint for Background	Ltr	2	216.00	432.00
14	Black colour paint for numbering	Ltr	1	286.00	286.00
A	<b>A. Sub total</b>				<b>38,849.93</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>1,165.50</b>
C	<b>Sub Total (C=A+B)</b>				<b>40,015.43</b>
D	<b>T&amp;P @ 2% of C</b>				<b>800.31</b>
E	<b>Contingency @ 3% of C</b>				<b>1,200.46</b>
F	<b>Transportation @ 7.5% of C</b>				<b>3,001.16</b>
	<b>Erection Charges @ 5% on poles</b>				<b>1,365.62</b>
G	<b>Erection Charges @ 10%</b>				<b>1,270.30</b>
H	<b>Total</b>				<b>47,653.28</b>
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	<b>Total Material + Services Cost (J+K)</b>				<b>51,309.53</b>
<b>III</b>	<b>Construction of LT Line using 3x35+1x25+1X16 sq. mm LT AB Cable- -0.24 Km.</b>				
1	9 Mtr Long 300 KG PSC Pole	No	8	3900.00	31,200.00
2	LT stay set complete	Set	1	676.00	676.00
3	7/12 SWG GI stay wire, Grade-2	Kg	12	97.50	1,170.00
4	LT stay clamp	Pair	1	143.00	143.00
5	LT stay set Insulator	No	1	39.00	39.00
6	<b>LT Accessories with Eye Hook and Clamp</b>				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	10	260.00	2,600.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	4	78.00	312.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	4	84.50	338.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	6	442.00	2,652.00

11	3x35+1x25+1X16 sq. mm LT Aerial Bunched Cable	Mtr	252	156.00	39,312.00
12	Insulated Piercing connector ,Type-B main 25-150 sq. mm & Tap-6 to 35 sq. mm	No	4	62.13	223.67
13	Insulated Piercing connector ,Type-C main 16-95 sq. mm & Tap-1.5 to 16 sq. mm	No	1	60.00	72.00
14	Pipe Earthing(each 5 th Pole to Earth)	No	2	1365.00	2,730.00
15	Coil Earthing	No	6	215.80	1,294.80
16	No-8 GI wire (Dia-4.6mm)	Kg	2.096	97.50	204.36
17	Danger plate (LT)	No	8	104.00	832.00
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	2.41	97.5	234.98
19	GI barbed wire/Anticlimbing device 3 kg per support	Kg	24	104	2496.00
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	9.63	97.5	938.93
21	GI Nut, Bolt & washers of different sizes	Kg	4	101.40	405.60
22	Yellow colour paint for Background	Ltr	16	216.00	3,456.00
23	Black paint	Ltr	8	286.00	2,288.00
A	<b>TOTAL MATERIAL COST</b>				<b>93,618.33</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>2,808.55</b>
C	<b>Sub Total (C=A+B)</b>				<b>96,426.88</b>
D	<b>Contingency @3% of C</b>				<b>2,892.81</b>
E	<b>T &amp; P 2% of C</b>				<b>1,928.54</b>
F	<b>Transportation @ 7.5% of C</b>				<b>7,232.02</b>
G	<b>Erection Charges for PSC Pole @ 20%</b>				<b>6,427.20</b>
H	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				
I	<b>Erection Charges of other @ 10%</b>				<b>5,953.80</b>
J	<b>Sub Total Rs.</b>				<b>120,861.24</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	1	2250	2250
25	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	3	6500.00	19,500.00

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
K	<b>Total Services Cost</b>				<b>29,150.00</b>
	<b>Total Material + Services Cost (J+K)</b>				<b>150,011.24</b>
	Dismantling of 9 Mtr. Long 300 Kg PSC Pole	No	3	900.00	2,700.00
	Dismantling of LT line 1 Ph 2W conductor	Mtr	22.5	150.00	3,375.00
					6,075.00
	Total Estimated Cost				834,537.74
	Total Estimated Cost in Figures				834,538.00
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/-  
Asst. Project Manager (Elect) (Hqr)

Sd/-  
Project Manager(Elect.)