

**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 6-F TYPE QTRS. AT BALIPATNA FIRE STATION IN THE DIST. OF KHURDA.

BID REF NO :- 51/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.
I	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.15 KM .				
A	11 KV CUT POINT WITH 180 DEGREE ANGLE				
1	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	11.47	76.00	871.72
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	2.643	97.50	257.69
3	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	2.925	76.00	222.30
4	11 KV pin insulator polymer	Set	3	260.00	780.00
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	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	1.55	101.40	157.17
A	A. Sub total				10,010.88
B	B. Stock, Storage & Insurance @ 3% of A				300.33
C	Sub Total (C=A+B)				10,311.21
D	T&P @ 2% of C				206.22
E	Contingency @ 3% of C				309.34
F	Transportation @ 7.5% of C				773.34
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				1,031.12
H	Total				12,631.23
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
2	11 KV V cross arm	No	2	1053.00	2106.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	2	195.00	390.00
4	Danger plate	No	2	104.00	208.00

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	0.6	97.50	58.50
6	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
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	2.41	97.50	234.98
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	6	260.00	1560.00
9	Earthing of Support (Coil Type)	No	2	215.80	431.60
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.52	97.50	50.70
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	2.9	101.40	294.06
12	55 sq. mm AAAC	Km	0.4635	39000.00	18076.50
13	Yellow colour paint for Background	Ltr	4	216.00	864.00
14	Black colour paint for numbering	Ltr	2	286.00	572.00
A	A. Sub total				78,504.24
B	B. Stock, Storage & Insurance @ 3% of A				2,355.13
C	Sub Total (C=A+B)				80,859.36
D	T&P @ 2% of C				1,617.19
E	Contingency @ 3% of C				2,425.78
F	Transportation @ 7.5% of C				6,064.45
	Erection Charges @ 5% on poles				2,731.25
G	Erection Charges @ 10%				2,625.45
H	Total				96,323.48
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.225	6500.00	1462.50
	Total Material + Services Cost (J+K)				1,03,635.98
II	INSTALLATION OF 63 KVA S/S.				
1	WPB GI Pole160X152(13 Mtr. Long ,30.44 Kg/Mtr.)	No	2	31200.00	62400.00
2	Top channel GI 100x50x6 mm (9.56 kg/Mtr.,2 Nos.)Each channel length 3000 mm Long	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	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	0	76.00	0.00
5	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
6	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
7	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
8	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
9	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
10	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04

11	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
12	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
13	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
14	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
15	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
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	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00
18	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
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
20	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7194.15
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
41	DT Meter with all accessories	No	1	34320.00	34320.00
A				A. Sub total	3,42,113.81
B				B. Stock, Storage & Insurance @ 3% of A	10,263.41
C				Sub Total (C=A+B)	3,52,377.23
D				T&P @ 2% of C	6,903.65

E	Contingency @ 3% of C				10,571.32
F	Transportation @ 7.5% of C				26,428.29
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				9,004.78
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				14,873.64
J	Total				4,20,158.90
42	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	1.1	6500.00	7150.00
43	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.225	6500.00	1462.50
44	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
45	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
46	Laying of 4Cx35 sq. mm LT XLPE cable	Mtr	15	46.80	702.00
47	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
48	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.375	6500.00	2,437.50
					96,152.00
	Sub total Rs				5,16,310.90
III	Construction of LT Line using 3x50+1x35+1X16 sq. mm LT AB Cable- -0.24 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	7	3900.00	27,300.00
2	LT stay set complete	Set	4	676.00	2,704.00
3	7/12 SWG GI stay wire, Grade-2	Kg	48	97.50	4,680.00
4	LT stay clamp	Pair	4	143.00	572.00
5	LT stay set Insulator	No	4	39.00	156.00
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	12	260.00	3,120.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	8	78.00	624.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	8	84.50	676.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	4	442.00	1,768.00
11	3x50+1x35+1X16 sq. mm LT Aerial Bunched Cable	Mtr	252	182.00	45,864.00
12	Insulated Piercing connector ,Type-B main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	4	113.08	407.09
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	1	1365.00	1,365.00
15	Coil Earthing	No	6	215.80	1,294.80
16	No-8 GI wire (Dia-4.6mm)	Kg	1.834	97.50	178.82
17	Danger plate (LT)	No	7	104.00	728.00

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	2.11	97.5	205.73
19	GI barbed wire/Anticlimbing device 3 kg per support	Kg	21	104	2184.00
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	8.43	97.5	821.93
21	GI Nut, Bolt & washers of different sizes	Kg	3.5	101.40	354.90
22	Yellow colour paint for Background	Ltr	14	216.00	3,024.00
23	Black paint	Ltr	7	286.00	2,002.00
A	TOTAL MATERIAL COST				1,00,102.25
B	Stock, Storage & Insurance @ 3% of A				3,003.07
C	Sub Total (C=A+B)				1,03,105.32
D	Contingency @3% of C				3,093.16
E	T & P 2% of C				2,062.11
F	Transportation @ 7.5% of C				7,732.90
G	Erection Charges for PSC Pole @ 20%				5,623.80
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				6,522.42
J	Sub Total Rs.				1,28,139.71
Civil and Services Works (As per Technical Specification)					
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	4	2250.00	9000.00
25	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	2.625	6500.00	17,062.50
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	1	3700.00	3,700.00
K	Total Services Cost				29,762.50
Total Material + Services Cost (J+K)					1,57,902.21
Total Estimated Cost					7,90,480.32
Total Estimated Cost in Figures					7,90,480.00
EXCESS	<input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)	_____ %			
Quoted Amount in Figure					

Quoted Amount in word	
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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.)**