

**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 :- 01 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-F TYPE QTRS. AT ASTARANGA FIRE STATION IN THE DIST. OF PURI.

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 0.6 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	22.94	76.00	1743.44
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.286	97.50	515.39
3	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.849	76.00	444.52
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				11,362.52
B	B. Stock, Storage & Insurance @ 3% of A				340.88
C	Sub Total (C=A+B)				11,703.39
D	T&P @ 2% of C				234.07
E	Contingency @ 3% of C				351.10
F	Transportation @ 7.5% of C				877.75
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				1,170.34
H	Total				14,336.66
B	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 55 sq. mm AAAC	No	12	624.00	7488.00
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	A. Sub total				1,13,302.67
B	B. Stock, Storage & Insurance @ 3% of A				3,399.08
C	Sub Total (C=A+B)				1,16,701.75
D	T&P @ 2% of C				2,334.04
E	Contingency @ 3% of C				3,501.05
F	Transportation @ 7.5% of C				8,752.63
	Erection Charges @ 5% on poles				2,731.25
G	Erection Charges @ 10%				4,949.02
H	Total				1,38,969.74
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 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6500.00	1462.50
	Total Material + Services Cost (J+K)				1,55,282.24
C	11 KV PIN POINTS WITH WPB				

1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	13	26516.95	344720.35
2	11 KV V cross arm	No	13	1053.00	13689.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	13	195.00	2535.00
4	Danger plate	No	13	104.00	1352.00
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	3.91	97.50	381.23
6	GI barbed wire/Anticlimbing device	No	39	104.00	4056.00
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	15.65	97.50	1525.88
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	39	260.00	10140.00
9	Earthing of Support (Coil Type)	No	13	215.80	2805.40
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	3.41	97.50	332.48
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	18.85	101.40	1911.39
12	55 sq. mm AAAC	Km	1.854	39000.00	72306.00
13	Yellow colour paint for Background	Ltr	26	216.00	5616.00
14	Black colour paint for numbering	Ltr	13	286.00	3718.00
A	A. Sub total				4,65,088.72
B	B. Stock, Storage & Insurance @ 3% of A				13,952.66
C	Sub Total (C=A+B)				4,79,041.38
D	T&P @ 2% of C				9,580.83
E	Contingency @ 3% of C				14,371.24
F	Transportation @ 7.5% of C				35,928.10
	Erection Charges @ 5% on poles				17,753.10
G	Erection Charges @ 10%				12,397.94
H	Total				5,69,072.59
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	5.85	6500.00	38025.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	1.4625	6500.00	9506.25
	Total Material + Services Cost (J+K)				6,16,603.84
I	INSTALLATION OF 25 KVA S/S.				
1	WPB GI Pole 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
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	3.54	97.50	345.15
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	25 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	69940.00	69940.00
13	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 25 KVA S/S.	No	1	19409.00	19409.00
14	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
15	4Cx35 sq. mm LT XLPE cable	Mtr	15	213.38	3200.70
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
	Structure Numbering and marking				
34	Yellow colour paint for Background	Ltr	2	216.00	432.00
35	Black colour paint for numbering	Ltr	1	286.00	286.00
36	DT Meter with all Accessories	EA	1	34320.00	34320.00
A				A. Sub total	2,74,235.98
B				B. Stock, Storage & Insurance @ 3% of A	8,227.08
C				Sub Total (C=A+B)	2,82,463.06
D				T&P @ 2% of C	5,585.26
E				Contingency @ 3% of C	8,473.89
F				Transportation @ 7.5% of C	21,184.73
G				Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%	6,333.16
H				Erection Charges @ 20% on PSC Poles	
I				Erection Charges @ 10% for other materials	13,636.87
J				Total	3,37,676.97

37	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
38	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
39	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
40	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
41	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	15	46.80	702.00
42	DTR Plinth	No	1	25000.00	25,000.00
43	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
44	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.345 Cu. Mtr.	Cu. Mtr	0.375	6500.00	2,437.50
					1,19,858.50
				Sub total Rs	4,57,535.47
III	Construction of LT Line using 4x35+1x35+1X16 sq. mm LT AB Cable- -0.19 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	6	3900.00	23,400.00
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
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	11	260.00	2,860.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	8	78.00	624.00
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	8	84.50	676.00
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	3	442.00	1,326.00
10	4 Cx35(P)+1Cx35(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	199.5	169.00	33,715.50
11	Insulated Piercing connector ,Type-B main 50-150 sq. mm & Tap-6 to 35 sq. mm	No	4	62.13	236.09
12	Insulated Piercing connector ,Type-C main 16-95 sq. mm & Tap-1.5 to 16 sq. mm	No	1	60.00	57.00
13	Pipe Earthing(each 5 th Pole to Earth)	No	1	1365.00	1,365.00
14	Coil Earthing	No	5	215.80	1,079.00
15	No-8 GI wire (Dia-4.6mm)	Kg	1.572	97.50	153.27
16	Danger plate (LT)	No	6	104.00	624.00
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	1.81	97.5	176.48
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	18	104	1872.00

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	7.22	97.5	703.95
20	GI Nut, Bolt & washers of different sizes	Kg	3	101.40	304.20
21	Yellow colour paint for Background	Ltr	12	216.00	2,592.00
22	Black paint	Ltr	6	286.00	1,716.00
A	TOTAL MATERIAL COST				81,592.48
B	Stock, Storage & Insurance @ 3% of A				2,447.77
C	Sub Total (C=A+B)				84,040.26
D	Contingency @3% of C				2,521.21
E	T & P 2% of C				1,680.81
F	Transportation @ 7.5% of C				6,303.02
G	Erection Charges for PSC Pole @ 20%				4,820.40
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				5,017.67
J	Sub Total Rs.				1,04,383.36
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	4	2250	9000.00
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	2.25	6500.00	14,625.00
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	1	3700.00	3,700.00
K	Total Services Cost				27,325.00
				Total Material + Services Cost (J+K)	
				1,31,708.36	
Sub Total Rs.					13,75,466.56
Cess @1%					13,754.67
Total Estimated Cost					13,89,221.23
Total Estimated Cost in Figures					13,89,221.00
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.)**