

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 :- 02 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO BANARAPAL POLICE STATION IN THE DISTRICT OF ANGUL.

BID REF NO :- 79/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-0.3 KM				
A	DP WITH AB SWITCH				
1	PSC Pole 9 Mtr. Long 300 KG	No	2	3900.00	7800.00
2	PSC Pole clamp	No	8	104.00	832.00
3	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
4	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
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	6.692	76.00	508.59
7	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.712	76.00	434.11
8	Double pole belting channel 75x40x4.8 mm GI channel, 3 mtr. Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
9	50x 50x6 mm.,GI Bracing angle ,4.5 kg/Mtr., each 0.3.512 mtr. length, 2 no's required	Kg	31.608	76.00	2402.21
10	Danger plate	No	2	104.00	208.00
11	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
12	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
13	HT Stay Set (Complete)	Set	2	1365.00	2730.00
14	HT Stay Insulator	No.	2	65.00	130.00
15	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
16	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	2	1365.00	2730.00

17	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	48.38	97.50	4717.05
18	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
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	2.4072	97.50	234.70
20	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
21	11 KV AB switch (400 Amp, 3 pole, 50 Hz)	Set	1	15405.00	15405.00
22	11 KV pin insulator polymer	Set	3	260.00	780.00
23	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
24	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
25	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
26	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	13.718	101.40	1391.01
27	Yellow colour paint for Background	Ltr	2	216.00	432.00
28	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				85,499.95
B	B. Stock, Storage & Insurance @ 3% of A				2,565.00
C	Sub Total (C=A+B)				88,064.95
D	T&P @ 2% of C				1,579.20
E	Contingency @ 3% of C				2,641.95
F	Transportation @ 7.5% of C				6,604.87
	Erection Charges @ 20% on PSC poles				1,606.80
G	Erection Charges @ 10%				7,092.58
H	Total				107,590.35
29	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
30	Concreting Ratio 1:1:5:3(500 mmx500mmx1700 mm)=0.425 Cu. Mtr.	Cum	0.75	6500.00	4875.00
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
	Total Material + Services Cost (J+K)				124,365.35

B	11 KV CUT POINT WITH 180 DEGREE ANGLE				
1	PSC Pole 9 Mtr. Long 300 KG	No	1	3900.00	3900.00
2	PSC Pole clamp	No	2	104.00	208.00
3	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
4	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.2864	97.50	515.42
5	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
6	Danger plate	No	1	104.00	104.00
7	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.3008	97.50	29.33
8	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
9	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
10	11 KV pin insulator polymer	Set	3	260.00	780.00
11	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
12	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
13	Earthing of Support (Coil Type)	No	1	215.80	215.80
14	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
15	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
16	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	101.40	359.97
17	Yellow colour paint for Background	Ltr	2	216.00	432.00
18	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A		A. Sub total			24,774.82
B		B. Stock, Storage & Insurance @ 3% of A			743.24
C		Sub Total (C=A+B)			25,518.06
D		T&P @ 2% of C			510.36
E		Contingency @ 3% of C			765.54
F		Transportation @ 7.5% of C			1,913.85
		Erection Charges @ 20% on PSC poles			803.40
G		Erection Charges @ 10%			2,150.11
H		Total			31,661.33
19	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.425 Cu. Mtr.	Cum	0.375	6500.00	2437.50
		Total Material + Services Cost (J+K)			34,098.83

C	11 KV PIN POINTS WITH PSC				
1	PSC Pole 9 Mtr. Long 300 KG	No	7	3900.00	27300.00
2	PSC Pole V cross arm Back Clamp	No	7	104.00	728.00
3	11 KV V cross arm	No	7	1053.00	7371.00
4	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	7	195.00	1365.00
5	Danger plate	No	7	104.00	728.00
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	2.11	97.50	205.73
7	GI barbed wire/Anticlimbing device	No	21	104.00	2184.00
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	8.43	97.50	821.93
9	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	21	260.00	5460.00
12	Earthing of Support (Coil Type)	No	7	215.80	1510.60
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.83	97.50	178.43
14	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	10.15	101.40	1029.21
15	55 sq. mm AAAC	Km	0.927	39000.00	36153.00
16	Yellow colour paint for Background	Ltr	14	216.00	3024.00
17	Black colour paint for numbering	Ltr	7	286.00	2002.00
A	A. Sub total				90,060.89
B	B. Stock, Storage & Insurance @ 3% of A				2,701.83
C	Sub Total (C=A+B)				92,762.71
D	T&P @ 2% of C				1,855.25
E	Contingency @ 3% of C				2,782.88
F	Transportation @ 7.5% of C				6,957.20
	Erection Charges @ 20% on PSC poles				5,623.80
G	Erection Charges @ 10%				6,464.37
H	Total				116,446.22
18	Concreting Ratio 1:1:5:3(500 mmx500mmx1700 mm)=0.425 Cu. Mtr.	Cum	2.625	6500.00	17062.50
	Total Material + Services Cost (J+K)				133,508.72
II	UPGRADATION OF S/S FROM 25 KVA TO 63 KVA S/S.				
1	PSC POLE 9 Mtr. Long 300 KG(For Raising LT ABC)	No	1	3900.00	3900.00
2	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	2	260.00	520.00
3	Eye Hook for XLPE Aerial Bunched Cable	No	2	78.00	156.00
4	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	84.50	169.00

5	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
6	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00
7	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
8	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
9	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7194.15
10	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
11	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
12	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
13	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
14	GI Nut, Bolt & washers of different sizes	Kg	5	101.40	507.00
15	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
16	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
17	Danger plate	Kg	2	104.00	208.00
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	0.6018	97.50	58.68
A	A. Sub total				208,607.10
B	B. Stock, Storage & Insurance @ 3% of A				6,258.21
C	Sub Total (C=A+B)				214,865.32
D	T&P @ 2% of C				3,952.29
E	Contingency @ 3% of C				6,445.96
F	Transportation @ 7.5% of C				16,114.90
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				5,791.18
H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				7,777.38
J	Total				255,750.42
43	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
44	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	50	46.80	2,340.00
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					82,240.00
	Sub total Rs				337,990.42
III	Construction of LT Line using 4Cx50 sq. mm Armoured aluminium cable- XLPE insulated - -0.15 Km.				

1	9 Mtr Long 300 KG PSC Pole	No	4	3900.00	15,600.00
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	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	5	260.00	1,300.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	5	78.00	390.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	84.50	169.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	3	442.00	1,326.00
11	4Cx50 sq. mm Armoured aluminium cable- XLPE insulated	Mtr	157.5	234.00	36,855.00
12	4 way service Distribution Box with kitkat fuse and aluminium Busbar	No	1	2873.00	2,873.00
12	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	3	113.08	339.24
13	GI Pipe for earthing (each 5th pole to earth)	No	1	1365.00	1,365.00
14	Coil Earthing	No	3	215.80	647.40
15	No-8 GI wire (Dia-4.6mm)	Kg	1.048	97.50	102.18
16	Danger plate (LT)	No	4	104.00	416.00
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	1.2	97.5	117.00
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	12	104	1248.00
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	4.81	97.5	468.98
20	GI Nut, Bolt & washers of different sizes	Kg	2	101.40	202.80
21	Yellow colour paint for Background	Ltr	8	216.00	1,728.00
22	Black colour paint for numbering	Ltr	4	286.00	1,144.00
A	A. Sub total				68,319.60
B	Stock, Storage & Insurance @ 3% of A				2,049.59
C	Sub Total (C=A+B)				70,369.18
D	Contingency @3% of C				2,111.08
E	T & P 2% of C				1,365.36
F	Transportation @ 7.5% of C				5,277.69
G	Erection Charges for PSC Pole @ 20%				3,213.60
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				5,080.64
J	Sub Total Rs.				87,417.55
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	1	2250	2250
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	1.5	6500.00	9,750.00
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				15,700.00
	Total Material + Services Cost (J+K)				103,117.55
IV	Dismantling Charges				
1	Dismantling of 25 KVA ,11/0.4 KV Pole mounted DT	EA	1	1500.00	1,500.00
	Total Estimated Cost				734,580.87
	Total Estimated Cost in Figures				734,581.00
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.)