

**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 :- 04 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO LOCK POLICE STATION PARADEEP IN THE DIST. OF JAGATSINGHPUR.

BID REF NO :- 77/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	CONVERSION OF 11 KV LINE OF LENGTH 0.3 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(13 Mtr. Long ,30.44 Kg/Mtr.)	No	1	34322.00	34322.00
2	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
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.2884	97.50	515.62
4	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
5	Danger plate	No	1	104.00	104.00
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	0.3009	97.50	29.34
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2036	97.50	117.35
9	11 KV pin insulator polymer	Set	6	260.00	1560.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	455.00	4095.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1495.00	13455.00
12	Earthing of Support (Coil Type)	EA	1	215.80	215.80
13	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
14	PG Clamp for 80 sq. mm AAAC	No	9	689.00	6201.00
15	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	101.40	359.97
16	Yellow colour paint for Background	Ltr	2	216.00	432.00
17	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				64,075.72
B	B. Stock, Storage & Insurance @ 3% of A				1,922.27
C	Sub Total (C=A+B)				65,997.99
D	T&P @ 2% of C				1,319.96

E		Contingency @ 3% of C			1,979.94
F		Transportation @ 7.5% of C			4,949.85
		Erection Charges @ 5% on poles			1,767.58
G		Erection Charges @ 10%			3,064.64
H		Total			79,079.96
18	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.55	6500.00	3575.00
19	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.1125	6500.00	731.25
		Total Material + Services Cost (J+K)			83,386.21
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(13 Mtr. Long ,30.44 Kg/Mtr.)	No	2	34322.00	68644.00
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	80 sq. mm AAAC	Km	0.927	55900.00	51819.30
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			1,27,857.14
B		B. Stock, Storage & Insurance @ 3% of A			3,835.71
C		Sub Total (C=A+B)			1,31,692.85
D		T&P @ 2% of C			2,633.86
E		Contingency @ 3% of C			3,950.79
F		Transportation @ 7.5% of C			9,876.96
		Erection Charges @ 5% on poles			3,535.17
G		Erection Charges @ 10%			6,098.98
H		Total			1,57,788.61
15	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	1.1	6500.00	7150.00
16	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)			1,66,401.11
II	EXTENSION OF 11 KV LINE				

A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole 160X152(13 Mtr. Long ,30.44 Kg/Mtr.)	No	1	34322.00	34322.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	45.888	76.00	3487.49
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	97.50	1030.85
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	11.70144	76.00	889.31
5	Danger plate	No	1	104.00	104.00
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	0.3008	97.50	29.33
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2036	97.50	117.35
9	11 KV pin insulator polymer	Set	4	260.00	1040.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	455.00	4095.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1495.00	13455.00
12	Non metallic ties 11 KV(for covered conductor)	No	4	251.00	1004.00
13	IPC for 70 sq. mm AAAC covered conductor	No	9	371.00	3339.00
14	Spike GI(using 50x6 mm flat welded with 8 sq mm bar)(2 Nos. spike per set in each pole)	Set	0	332.00	0.00
15	Earthing of Support (Coil Type)	No	1	215.80	215.80
16	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
17	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	1	162.50	162.50
18	HT Stay Set (Complete)	Set	1	1365.00	1365.00
19	HT Stay Insulator	No.	1	65.00	65.00
20	7/10 SWG Stay Wire , 15 Kg/stay	KG	15	97.50	1462.50
21	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	101.40	753.71
22	Yellow colour paint for Background	Ltr	2	216.00	432.00
23	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				67,850.38
B	B. Stock, Storage & Insurance @ 3% of A				2,035.51
C	Sub Total (C=A+B)				69,885.89
D	T&P @ 2% of C				1,334.78
E	Contingency @ 3% of C				2,096.58
F	Transportation @ 7.5% of C				5,241.44
	Erection Charges @ 5% on WPB poles				1,767.58
G	Erection Charges @ 10%				3,138.76
H	Total				83,465.03

24	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 excavation, 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
25	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.55	6500.00	3575.00
26	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	Total Material + Services Cost (J+K)				90,021.28
B	11 KV PIN POINTS WITH WPB				
1	70 sq. mm AAAC XLPE covered conductor	Km	0.1545	185220.00	28616.49
A	A. Sub total				28,616.49
B	B. Stock, Storage & Insurance @ 3% of A				858.49
C	Sub Total (C=A+B)				29,474.98
D	T&P @ 2% of C				589.50
E	Contingency @ 3% of C				884.25
F	Transportation @ 7.5% of C				2,210.62
		Erection Charges @ 5% on WPB poles			
G	Erection Charges @ 10%				2,947.50
H	Total				36,106.86
	Total Material + Services Cost (J+K)				36,106.86
III	INSTALLATION OF 63 KVA S/S.				
1	PSC POLE 10 Mtr. Long 330 KG(For DSS DP)	No	2	8450.00	16900.00
2	9 Mtr Long 300 KG PSC Pole(For raising of LT ABC)	No	1	3900.00	3900.00
3	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	2	260.00	520.00
4	Eye Hook for XLPE Aerial Bunched Cable	No	2	78.00	156.00
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	84.50	169.00
6	Pole clamp	No	14	104.00	1,456.00
7	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
8	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
9	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	0	76.00	0.00
10	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
11	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
12	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

13	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
14	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
15	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
16	Transformer base GI channel 100x50x6 mm channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg		76.00	0.00
17	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg		76.00	0.00
18	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg		76.00	0.00
19	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg		76.00	0.00
20	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
21	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
22	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00
23	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
24	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
25	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7194.15
26	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
27	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
28	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
29	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
30	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
31	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
32	11 KV Pin Insulator polymer type	No	3	260.00	780.00
33	HT Stay Set (Complete)	Set	2	1365.00	2730.00
34	HT Stay Insulator	No.	2	65.00	130.00
35	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
36	7/10 SWG Stay Wire	KG	30	97.50	2925.00
37	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
38	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
39	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
40	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
41	Danger plate	Kg	2	104.00	208.00
42	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
43	Name Plate	No	1	104.00	104.00
	Structure Numbering and marking				
44	Yellow colour paint for Background	Ltr	2	216.00	432.00
45	Black colour paint for numbering	Ltr	1	286.00	286.00
A				A. Sub total	2,60,937.55
B				B. Stock, Storage & Insurance @ 3% of A	7,828.13
C				Sub Total (C=A+B)	2,68,765.67
D				T&P @ 2% of C	4,904.42
E				Contingency @ 3% of C	8,062.97
F				Transportation @ 7.5% of C	20,157.43

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				4,284.80
I	Erection Charges @ 10% for other materials				10,797.37
J	Total				3,22,763.84
46	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.85	6500.00	5,525.00
47	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.375	6500	2,437.50
48	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
49	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
50	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	50	46.80	2,340.00
51	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
52	DTR Plinth	No	1	25000.00	25,000.00
					1,19,702.50
				Sub total Rs	4,42,466.34
IV	Construction of LT Line using 4Cx50 sq. mm Armoured aluminium cable- XLPE insulated - -0.1 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	3	3900.00	11,700.00
2	LT stay set complete	Set	3	676.00	2,028.00
3	7/12 SWG GI stay wire, Grade-2	Kg	36	97.50	3,510.00
4	LT stay clamp	Pair	3	143.00	429.00
5	LT stay set Insulator	No	3	39.00	117.00
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	4	84.50	338.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	1	442.00	442.00
11	4Cx50 sq. mm Armoured aluminium cable- XLPE insulated	Mtr	105	234.00	24,570.00
12	4 way service Distribution Box with kitkat fuse and aluminium Busbar	No	1	2873.00	2,873.00
13	GI Pipe for earthing (each 5th pole to earth)	No	1	1365.00	1,365.00
14	Coil Earthing	No	2	215.80	431.60
15	No-8 GI wire (Dia-4.6mm)	Kg	0.786	97.50	76.64
16	Danger plate (LT)	No	3	104.00	312.00
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	0.9	97.5	87.75

18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	9	104	936.00
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	3.61	97.5	351.98
20	GI Nut, Bolt & washers of different sizes	Kg	1.5	101.40	152.10
21	Yellow colour paint for Background	Ltr	6	216.00	1,296.00
22	Black colour paint for numbering	Ltr	3	286.00	858.00
A	A. Sub total				53,564.06
B	Stock, Storage & Insurance @ 3% of A				1,606.92
C	Sub Total (C=A+B)				55,170.98
D	Contingency @3% of C				1,655.13
E	T & P 2% of C				949.98
F	Transportation @ 7.5% of C				4,137.82
G	Erection Charges for PSC Pole @ 20%				2,410.20
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				3,544.79
J	Sub Total Rs.				67,868.90
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	3	2250	6750
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	1.125	6500.00	7,312.50
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				17,762.50
Total Material + Services Cost (J+K)					85,631.40
V	Dismantling Charges				
1	Dismantling of 9 mtr. PSC Pole	EA	3	1350.00	4,050.00
2	Dismantling of 11 KV V cross Arm	No	3	41.40	124.20
3	Dismantling of GI Pin with insulator	No	9	8.10	72.90
4	Dismantling of 11 KV Disc insulator with HW fitting	No	3	8.10	24.30

5	Dismantling of 80/100 sq. mm AAAC	Km	0.9	9000.00	8,100.00
	Total Rs.				12,371.40
	Total Estimated Cost				9,16,384.59
	Total Estimated Cost in Figures				9,16,385.00
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.)