

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 :- 05 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO MANGALABAG POLICE STATION IN THE DIST. OF CUTTACK.

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	CONSTRUCTION OF 11 KV LINE .				
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	22.943	76.00	1743.67
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	5.85	76.00	444.60
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	Non metallic ties 11 KV(for covered conductor)	No	3	251.00	753.00
8	IPC for 70 sq. mm AAAC covered conductor	No	3	371.00	1113.00
9	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	101.40	359.97
A	A. Sub total				11,559.62
B	B. Stock, Storage & Insurance @ 3% of A				346.79
C	Sub Total (C=A+B)				11,906.41
D	T&P @ 2% of C				238.13
E	Contingency @ 3% of C				357.19
F	Transportation @ 7.5% of C				892.98
	Erection Charges @ 5% on WPB poles				
G	Erection Charges @ 10%				1,190.64
H	Total				14,585.35
	Total Material + Services Cost (J+K)				14,585.35
B	11 KV CUT POINT WITH 90 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		5.2884	97.50	515.62
3	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg		5.85072	76.00	444.65
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	Non metallic ties 11 KV(for covered conductor)	No		3	251.00	753.00
8	IPC for 70 sq. mm AAAC covered conductor	No		3	371.00	1113.00
9	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair		1	162.50	162.50
10	HT Stay Set (Complete)	Set		1	1365.00	1365.00
11	HT Stay Insulator	No.		1	65.00	65.00
12	7/10 SWG Stay Wire , 15 Kg/stay	KG		15	97.50	1462.50
13	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg		3.7165	101.40	376.85
A	A. Sub total					14,631.57
B	B. Stock, Storage & Insurance @ 3% of A					438.95
C	Sub Total (C=A+B)					15,070.51
D	T&P @ 2% of C					238.48
E	Contingency @ 3% of C					452.12
F	Transportation @ 7.5% of C					1,130.29
	Erection Charges @ 5% on poles					
G	Erection Charges @ 10%					1,192.40
H	Total					18,083.80
14	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		1	2250.00	2250.00
	Total Material + Services Cost (J+K)					20,333.80
C	11 KV PIN POINTS WITH WPB					
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No		2	29661.00	59322.00
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	Non metallic ties 11 KV(for covered conductor)	No	6	251.00	1506.00
10	Earthing of Support (Coil Type)	No	2	215.80	431.60
11	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
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	2.9	101.40	294.06
13	70 sq. mm AAAC XLPE covered conductor	Km	0.2163	185220.00	40063.09
14	Yellow colour paint for Background	Ltr	4	216.00	864.00
15	Black colour paint for numbering	Ltr	2	286.00	572.00
A	A. Sub total				1,08,284.92
B	B. Stock, Storage & Insurance @ 3% of A				3,248.55
C	Sub Total (C=A+B)				1,11,533.47
D	T&P @ 2% of C				2,230.67
E	Contingency @ 3% of C				3,346.00
F	Transportation @ 7.5% of C				8,365.01
	Erection Charges @ 5% on poles				3,055.08
G	Erection Charges @ 10%				5,043.21
H	Total				1,33,573.44
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	0.9	6500.00	5850.00
17	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)				1,40,885.94
II	INSTALLATION OF 63 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
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	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	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	0	76.00	0.00
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 100x50x6 mm channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	57.36	76.00	4359.36
16	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	9.85	76.00	748.60
17	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00
18	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	76.00	396.72
19	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
20	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
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 Insulator	No.	2	65.00	130.00
34	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
35	7/10 SWG Stay Wire	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
	Structure Numbering and marking				
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	A. Sub total				3,09,460.23
B	B. Stock, Storage & Insurance @ 3% of A				9,283.81
C	Sub Total (C=A+B)				3,18,744.03
D	T&P @ 2% of C				5,903.99
E	Contingency @ 3% of C				9,562.32
F	Transportation @ 7.5% of C				23,905.80
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				8,846.26

H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				11,425.71
J	Total				3,79,191.52
45	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
46	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
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 4Cx95 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 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.375	6500.00	2,437.50
					94,858.50
	Sub total Rs				4,74,050.02
III	Construction of LT Line using 4x35+1x25+1X16 sq. mm LT AB Cable- -0.05 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	2	3900.00	7,800.00
2	LT stay set complete	Set	2	676.00	1,352.00
3	7/12 SWG GI stay wire, Grade-2	Kg	24	97.50	2,340.00
4	LT stay clamp	Pair	2	143.00	286.00
5	LT stay set Insulator	No	2	39.00	78.00
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	4	260.00	1,040.00
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 (25x70 sqmm)	No	4	84.50	338.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	0	442.00	-
11	4 Cx35(P)+1Cx35(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	52.5	169.00	8,872.50
12	Insulated Piercing connector ,Type-B main 50-150 sq. mm & Tap-6 to 35 sq. mm	No	1	62.13	62.13
13	Coil Earthing	No	2	215.80	431.60
14	No-8 GI wire (Dia-4.6mm)	Kg	0.524	97.50	51.09
15	Danger plate (LT)	No	2	104.00	208.00
16	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	97.5	58.50
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	6	104	624.00

18	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	97.5	234.98
19	GI Nut, Bolt & washers of different sizes	Kg	1	101.40	101.40
20	Yellow colour paint for Background	Ltr	4	216.00	864.00
21	Black paint	Ltr	2	286.00	572.00
A	TOTAL MATERIAL COST				25,626.20
B	Stock, Storage & Insurance @ 3% of A				768.79
C	Sub Total (C=A+B)				26,394.98
D	Contingency @3% of C				791.85
E	T & P 2% of C				444.34
F	Transportation @ 7.5% of C				1,979.62
G	Erection Charges for PSC Pole @ 20%				1,606.80
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,418.32
J	Sub Total Rs.				32,635.91
Civil and Services Works (As per Technical Specification)					
22	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	2	2250	4500.00
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	0.75	6500.00	4,875.00
K	Total Services Cost				9,375.00
				Total Material + Services Cost (J+K)	42,010.91
IV	11 KV LINE PROTECTING GUARDING FOR ROAD CROSSING-4 SPAN				
1	Guarding Channel 75X40X4.8 mm, 7.14 KG/Mtr., each channel length 2.2 mtr., 4 no's channel required =(4x7.14x1.2)	Kg	251.328	76.00	19100.93
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	215.04	97.50	20966.40
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	45.85	97.50	4470.38
4	Eye Bolt(236 mm,16 mm dia,1.577 Kg/mtr.)	No	16	78.00	1248.00
5	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	8	1365.00	10920.00
6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	202.016	97.50	19696.56
A	TOTAL MATERIAL COST (FOR-2020-21)				76,402.26
B	Stock, Storage & Insurance @ 3% of A				2,292.07
C	Sub Total (C=A+B)				78,694.33
D	Contingency @3% of C				2,360.83
E	T & P 2% of C				1,348.93
F	Transportation @ 7.5% of C				5,902.07
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				6,744.67
J	Sub Total Rs.				95,050.84

7	Construction of earthing chamber including installation of earthing pipe.Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance,inclusing installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.	No	8	3700.00	29,600.00
	Total Rs.				1,24,650.84
V	Dismantling Charges				
1	Dismantling of 55 sq. mm AAAC	Km	0.18	6300.00	1,134.00
	Total Rs.				1,134.00
	Total Estimated Cost				8,17,650.86
	Total Estimated Cost in Figures				8,17,651.00
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.)**