

**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 :- 03 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO HANDAPA POLICE STATION,HANDAPA IN THE DIST. OF ANGUL.

BID REF NO :- 48/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 0.17 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	26516.95	26516.95
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	68.832	76.00	5231.23
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	15.8592	97.50	1546.27
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	17.55216	76.00	1333.96
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	8	260.00	2080.00
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	8	251.00	2008.00
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	2	162.50	325.00
18	HT Stay Set (Complete)	Set	2	1365.00	2730.00
19	HT Stay Insulator	No.	2	65.00	130.00
20	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00

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				67,848.15
B	B. Stock, Storage & Insurance @ 3% of A				2,035.44
C	Sub Total (C=A+B)				69,883.59
D	T&P @ 2% of C				1,397.67
E	Contingency @ 3% of C				2,096.51
F	Transportation @ 7.5% of C				5,241.27
		Erection Charges @ 5% on WPB poles			1,365.63
G	Erection Charges @ 10%				3,627.78
H	Total				83,612.45
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 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	2	2250.00	4500.00
25	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.45	6500.00	2925.00
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)				91,768.70
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	6	26516.95	159101.70
2	11 KV V cross arm	No	6	1053.00	6318.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	6	195.00	1170.00
4	Danger plate	No	6	104.00	624.00
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	1.81	97.50	176.48
6	GI barbed wire/Anticlimbing device	No	54	104.00	5616.00
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	7.221	97.50	704.05
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	18	260.00	4680.00
9	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
10	Non metallic ties 11 KV(for covered conductor)	No	18	251.00	4518.00
11	Earthing of Support (Coil Type)	No	6	215.80	1294.80
12	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.57	97.50	153.08
13	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	8.7	101.40	882.18
14	70 sq. mm AAAC XLPE covered conductor	Km	1.0815	185220.00	200315.43
15	Yellow colour paint for Background	Ltr	12	216.00	2592.00

16	Black colour paint for numbering	Ltr	6	286.00	1716.00
A	A. Sub total				3,89,861.71
B	B. Stock, Storage & Insurance @ 3% of A				11,695.85
C	Sub Total (C=A+B)				4,01,557.56
D	T&P @ 2% of C				8,031.15
E	Contingency @ 3% of C				12,046.73
F	Transportation @ 7.5% of C				30,116.82
		Erection Charges @ 5% on WPB poles			8,193.74
G	Erection Charges @ 10%				23,768.26
H	Total				4,83,714.25
17	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	2.7	6500.00	17550.00
18	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.675	6500.00	4387.50
	Total Material + Services Cost (J+K)				5,05,651.75
II	INSTALLATION OF 63 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	3.9648	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 channel 75x40x4.8 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 100x50x6 mm channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	57.36	76.00	4359.36
12	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	9.8467	76.00	748.35
13	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00
14	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	76.00	396.72
15	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
16	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
17	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00

18	LT Distribution Box with MCCB, Aluminium 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 Insulator	No.	2	65.00	130.00
30	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
31	7/10 SWG Stay Wire	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
	Structure Numbering and marking				
39	Yellow colour paint for Background	Ltr	2	216.00	432.00
40	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				2,98,426.88
B	B. Stock, Storage & Insurance @ 3% of A				8,952.81
C	Sub Total (C=A+B)				3,07,379.68
D	T&P @ 2% of C				6,003.72
E	Contingency @ 3% of C				9,221.39
F	Transportation @ 7.5% of C				23,053.48
G	Erection Charges @ 5% for transformer and joist/WPB pole cost including stock, storage & insurance @3%				8,522.42
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				11,338.68
J	Total				3,65,519.37
41	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.9	6500.00	5850.00
42	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.226	6500.00	1469.00
43	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

44	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
45	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	15	46.80	702.00
46	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
				Sub total Rs	4,57,940.37
	Sub total Rs.				10,55,360.82
	Cess @1%				10,553.61
	Total Estimated Cost				10,65,914.43
	Total Estimated Cost in Figures				10,65,914.00
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.)