

**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 4-E TYPE QUARTERS AND POLICE STATION BUILDING AT NAUGAON IN THE DISTRICT OF JAGATSINGHPUR.**

**BID REF NO :- 105/PM/ELECT/OPHWC/2023-24**

<b>NAME &amp; ADDRESS OF THE FIRM</b>	
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**SCHEDULE OF WORKS**

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
<b>1</b>	<b>INSTALLATION OF 63 KVA S/S.</b>				
1	WPB GI Pole 160X152(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 bunched Cable	No	2	84.50	169.00
2	Top Channel GI 100X50X6mm,3000 mm Long) 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	Kg	57.36	76.00	4,359.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
8	M.U Channel GI 75x40x4.8 mm (3000 mm long)(7.14Kg./Mtr., 2 No's.)	Kg	42.84	76.00	3,255.84
4	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84
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	Transformer Base GI Channel 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	76.00	4359.36

11	Transformer Base Support GI Channel 100 X 50 X 6 MM (515 mm long) (9.56Kg./Mtr, 2 No's) (Each 2x0.515x9.56= 9.85Kg)	Kg	9.85	76.00	748.60
12	Transformer Belting Angle 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	27	76.00	2052.00
13	Transformer Belting Support Angle 50 X 50 X 6MM GI (580 mm long)(4.5Kg./Mtr,2 No's) (Each 2x0.580x4.5= Kg)	Kg	5.22	76.00	396.72
14	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	76.00	684.00
15	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For L.A and 2.5 Mtr for raising, 11 Mtr. For AB Switch ,2.8 Mtr. for HG Fuse, 5x2 Mtr. For DTR neutral,(13-4.5)mtr. For DTR Body, 0.500 Mtr. For LTDB & AB switch operating handle, 3 Mtr. for fencing. )	Kg	154.816	97.50	15094.56
16	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00
17	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
18	55mm <sup>2</sup> All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00
19	4 Cx 95 mm <sup>2</sup> LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	Mtr	15	479.61	7194.15
20	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
21	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
22	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
23	Disc insulator (B&S)70 KN polymer	No	3	1495.00	4485.00
24	H W fitting (B&S)70KN(3bolted)	Pair	3	455.00	1365.00
25	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
26	11 KV Pin Insulator polymer type	No	3	260.00	780.00
27	HT Stay Set (Complete)	Set	2	1365.00	2730.00
28	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
29	HT Stay Insulator	No.	2	65.00	130.00
30	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
31	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
32	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
33	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
34	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
35	Danger plate	Kg	2	104.00	208.00
36	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
37	Name Plate	No	1	104.00	104.00
38	Yellow colour paint for Background	Ltr	2	216.00	432.00
39	Black colour paint for numbering	Ltr	1	286.00	286.00
<b>A</b>	<b>A. Sub total</b>				<b>3,12,716.65</b>
<b>B</b>	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>9,381.50</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>3,22,098.15</b>
<b>D</b>	<b>T&amp;P @ 2% of C</b>				<b>5,971.06</b>

E	Contingency @ 3% of C				9,662.94
F	Transportation @ 7.5% of C				24,157.36
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				11,761.06
J	Total				3,83,300.24
40	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
41	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00
42	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
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	15	46.80	702.00
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
46	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.(For PSC Pole)	Cum	0.375	6500.00	2437.50
					94,858.50
	Sub total Rs				4,78,158.74
II	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.08 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.(Including strut Pole)	No	1	29661.00	29661.00
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	0.3009	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,3 Nos.,required for each support	No	4	260.00	1040.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
12	Earthing of Support ( Coil Type )	No	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 55 sq. mm AAAC	No	6	624.00	3744.00
15	HT Stay Set (Complete)	Set	2	1365.00	2730.00
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
17	HT Stay Insulator	No.	2	65.00	130.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	7.433	101.40	753.71
20	Yellow colour paint for Background	Ltr	2	216.00	432.00
21	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	<b>A. Sub total</b>				<b>59,795.39</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>1,793.86</b>
C	<b>Sub Total (C=A+B)</b>				<b>61,589.25</b>
D	<b>T&amp;P @ 2% of C</b>				<b>1,105.92</b>
E	<b>Contingency @ 3% of C</b>				<b>1,847.68</b>
F	<b>Transportation @ 7.5% of C</b>				<b>4,619.19</b>
	<b>Erection Charges @ 5% on poles</b>				<b>1,527.54</b>
G	<b>Erection Charges @ 10%</b>				<b>2,474.51</b>
H	<b>Total</b>				<b>73,164.09</b>
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 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
23	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	0.45	6500.00	2925.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	<b>Total Material + Services Cost (J+K)</b>				<b>81,320.34</b>
<b>B</b>	<b>11 KV PIN POINTS WITH WPB</b>				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
2	11 KV V cross arm	No	1	1053.00	1053.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	1	195.00	195.00
4	Danger plate	No	1	104.00	104.00

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	0.3	97.50	29.25
6	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2	97.50	117.00
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	3	260.00	780.00
9	Earthing of Support ( Coil Type )	No	1	215.80	215.80
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.26	97.50	25.35
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	1.45	101.40	147.03
12	55 sq. mm AAAC	Km	0.2472	39000.00	9640.80
13	Yellow colour paint for Background	Ltr	2	216.00	432.00
14	Black colour paint for numbering	Ltr	1	286.00	286.00
<b>A</b>	<b>A. Sub total</b>				<b>42,998.23</b>
<b>B</b>	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>1,289.95</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>44,288.18</b>
<b>D</b>	<b>T&amp;P @ 2% of C</b>				<b>885.78</b>
<b>E</b>	<b>Contingency @ 3% of C</b>				<b>1,328.65</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>3,321.61</b>
		<b>Erection Charges @ 5% on poles</b>			<b>1,527.54</b>
<b>G</b>	<b>Erection Charges @ 10%</b>				<b>1,373.80</b>
<b>H</b>	<b>Total</b>				<b>52,725.56</b>
15	Couping Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	<b>Total Material + Services Cost (J+K)</b>				<b>56,381.81</b>
<b>III</b>	<b>Construction of LT Line using 3X50+1x35 sq. mm LT AB Cable- -0.21 Km.</b>				
1	9 Mtr Long 300 KG PSC Pole	No	6	3900.00	23,400.00
2	LT stay set complete	Set	5	676.00	3,380.00
3	7/12 SWG GI stay wire, Grade-2	Kg	60	97.50	5,850.00
4	LT stay clamp	Pair	5	143.00	715.00
5	LT stay set Insulator	No	5	39.00	195.00
6	<b>LT Accessories with Eye Hook and Clamp</b>				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	14	260.00	3,640.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	10	78.00	780.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	10	84.50	845.00
10	Suspension Clamp with Eye hook for ABC (25-70 sq. mm)	No	4	442.00	1,768.00
11	3x50+1x35 sq. mm LT Aerial Bunched Cable	Mtr	220.5	169.00	37,264.50
12	Insulated Piercing connector Type-A -main 50 to 150 sq. mm & Tap 50 to 150 sq. mm	No	3	113.08	339.24

13	Pipe earthing	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	<b>TOTAL MATERIAL COST</b>				<b>88,762.64</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>2,662.88</b>
C	<b>Sub Total (C=A+B)</b>				<b>91,425.51</b>
D	<b>Contingency @3% of C</b>				<b>2,742.77</b>
E	<b>T &amp; P 2% of C</b>				<b>1,730.76</b>
F	<b>Transportation @ 7.5% of C</b>				<b>6,856.91</b>
G	<b>Erection Charges for PSC Pole @ 20%</b>				<b>4,820.40</b>
H	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				
I	<b>Erection Charges of other @ 10%</b>				<b>5,547.31</b>
J	<b>Sub Total Rs.</b>				<b>1,13,123.66</b>
<b>Civil and Services Works (As per Technical Specification)</b>					
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	5	2250	11250
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	<b>Total Services Cost</b>				<b>29,575.00</b>
				<b>Total Material + Services Cost (J+K)</b>	
				<b>1,42,698.66</b>	
Total Estimated Cost				<b>7,58,559.54</b>	

	Total Estimated Cost in Figures				<b>7,58,560.00</b>
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/-  
D.M (Elect) I/C

Sd/-  
Project Manager(Elect)