

**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 SECURITY CENTRE AT SOG, CHANDAKA, BHUBANESWAR IN THE DISTRICT OF KHURDA.**

**BID REF NO :- 12/PM/ELECT/OPHWC/2024-25**

<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>11 KV DP with AB Switch and LA using WPB GI Pole 160x152 (11Mtr. Long, 30.44KG/Mtr.) for HT Metering unit (Where DTR will Install on Separate DP)</b>				
<b>1</b>	WPB(GI) 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No	2	29661.00	59322.00
<b>2</b>	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 3 mtr., 2 no's channel required =(2x9.56x3)	KG	57.36	76	4359.36
<b>3</b>	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	KG	3.965	97.5	386.59
<b>4</b>	AB switch Mounting Channel 75X40X4.8mm, 7.14KG/Mtr, each channel length 3 Mtr., 2 no's channel required =( 7.14x3x2)	KG	42.84	76	3255.84
<b>5</b>	HT MU Mounting Channel 100X50X6mm, 9.56KG/Mtr, each channel length 3 Mtr., 2 no's channel required =( 9.56x3x2)	KG	57.36	76	4359.36
<b>6</b>	Cantilever Support Channel 75x40x4.8 mm GI Channel (810 mm long,2 No's.) (7.14Kg./Mtr., 2 No's.) (Each 2x0.81x7.14)	KG	11.567	76	879.09
<b>7</b>	Angle for Cantilever arrangement for HT MU 50 x 50 x 6 - 1282 mm.each 2 nos.(4.5 K.g. per mtr.)	KG	11.538	76	876.89
<b>8</b>	MU and AB Switch Side Support Channel 100X50X6mm,9.56 KG/Mtr., each channel length 0.35 mtr., 4 no's channel required =( 9.56x4x0.35)	KG	13.384	76	1017.18
<b>9</b>	Channel Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each channel length 0.8 Mtr., 1 no's channel required =( 7.14x0.8x1)	KG	5.712	76	434.11
<b>10</b>	Double Pole Bracing Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 3 Mtr., 2 no's channel required =( 7.14x3x2)	KG	42.84	76	3255.84
<b>11</b>	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr., 2 nos angle required =( 4.5x3.512x2)	KG	31.608	76	2402.21
<b>12</b>	Danger Plate, 2 no's.	No.	2	104.00	208.00
<b>13</b>	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's =(2x0.59x0.510)	KG	0.6018	97.50	58.68
<b>14</b>	55mm <sup>2</sup> All Alloy Aluminum Conductor (AAAC) - PVC Insulated for Jumpering	Mtr.	15	55.24	828.60

15	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required ( 1 Pair)	Pair	2	162.50	325.00
16	H.T. Stay set (Complete )	Set	2	1365.00	2730.00
17	H.T. Stay Insulator Type-C	No.	2	65.00	130.00
18	7/10 SWG Stay Wire 15kg /stay	K.g.	30	97.50	2925.00
19	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	2	1365.00	2730.00
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	48.38	97.50	4717.05
21	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	6	104.00	624.00
22	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	KG	2.407	97.50	234.68
23	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	3	4615.00	13845.00
24	AB Switch (11KV,200A.3pole,50Hz)	Set	1	9555.00	9555.00
25	11 KV pin insulator polymer	No.	3	260	780.00
26	H W fitting(B&S) 70KN, 3Bolt	No.	6	455	2730.00
27	Disc insulator (B&S) 70 KN polymer	No.	6	1495	8970.00
28	PG Clamp for 55 sq.mm AAA conductor	NO.	6	624	3744.00
29	GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	K.g.	13.718	101.40	1391.01
30	Black Paint	Ltr	1	286.00	286.00
31	Yellow Colour Paint for Background	Ltr	2	216.00	432.00
A	<b>A. Sub total</b>				<b>1,37,792.48</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>4,133.77</b>
C	<b>Sub Total (C=A+B)</b>				<b>1,41,926.26</b>
D	<b>T&amp;P @ 2% of C</b>				<b>2,656.42</b>
E	<b>Contingency @ 3% of C</b>				<b>4,257.79</b>
F	<b>Transportation @ 7.5% of C</b>				<b>10,644.47</b>
G	<b>Erection Charges @ 5% on poles</b>				<b>3,055.08</b>
H	<b>Erection Charges @ 10%</b>				<b>7,171.94</b>
I	<b>Total</b>				<b>1,69,711.96</b>
32	Fixing of complete 11KV 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 BA will do the excvation including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size ( 500mmx500mmx800mm) using 20mm BHG metal with all labour and material as per TPCODL Drawing & Standard.	EA	2	2250.00	4500.00
33	Concreting ratio 1:1.5:3 (500mmX500mmX1800mm) = 0.45Cu.mtr	Cu.mtr	0.9	6500.00	5850.00
34	Couping ratio 1:1.5:3 with dimension ( 500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.225	6500.00	1462.50
35	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe .	No.	2	3700.00	7400.00

36	Supply and Erection of GI Fencing with Gate	Sq.Mtr.	20	3600.00	72000.00
37	Dismantling of 116x100 mm RS joist	No	2	1380.90	2761.80
38	Dismantling /Removal of MS Channel from pole including loading, transportation, unloading and staking of dismantled material at proper place in safe position at site store.	Kg	100	7.92	792.00
39	Dismantling of existing Metering Unit	No	1	3262.64	3262.64
40	Re-installation of metering unit	No	1	12000.00	12000.00
	<b>Total Material + Services Cost</b>				<b>2,79,740.90</b>
	<b>Salvage Value</b>				<b>2,152.80</b>
	<b>Total Rs.</b>				<b>2,77,588.10</b>
<b>B</b>	<b>11 KV CUT POINT WITH 90 DEGREE ANGLE</b>				
1	WPB (GI) Pole 160x152 (11 Mtr. Long, 30.44KG/Mtr.)	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	97.50	4474.08
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 =(4x9.56x0.306)	Kg	11.70144	97.50	1140.89
5	Danger Plate, 1 no's.	No.	1	104	104.00
6	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	0.3009	97.5	29.34
7	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	3	104.00	312.00
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	1.2036	97.50	117.35
9	11 KV pin insulator polymer	Set	3	260.00	780.00
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 )	EA	1	215.80	215.80
13	No-8 GI wire (Dia 4.6mm) 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 AAA conductor	EA	6	524.00	3144.00
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
16	HT Stay Set (Complete)	Set	2	1365.00	2730.00
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	Black Paint	EA	0.5	286.00	143.00
21	Yellow Colour Paint for Background	Kg	2	216.00	432.00
A	<b>A. Sub total</b>				<b>60,173.56</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>1,805.21</b>
C	<b>Sub Total (C=A+B)</b>				<b>61,978.77</b>
D	<b>T&amp;P @ 2% of C</b>				<b>1,239.58</b>
E	<b>Contingency @ 3% of C</b>				<b>1,859.36</b>
F	<b>Transportation @ 7.5% of C</b>				<b>4,648.41</b>

		<b>Erection Charges @ 5% on poles</b>			<b>1,527.54</b>
<b>G</b>		<b>Erection Charges @ 10%</b>			<b>2,513.46</b>
<b>H</b>		<b>Total</b>			<b>73,767.12</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 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
23	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	0.45	6500.00	2925.00
24	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.1125	6500.00	731.25
		<b>Total Material + Services Cost</b>			<b>81,923.37</b>
<b>C</b>	<b>11 KV PIN POINTS WITH WPB</b>				
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	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	3.09	56321.00	174031.89
13	Yellow colour paint for Background	Ltr	4	216.00	864.00
14	Black colour paint for numbering	Ltr	2	286.00	572.00
<b>A</b>		<b>A. Sub total</b>			<b>2,40,747.73</b>
<b>B</b>		<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>			<b>7,222.43</b>
<b>C</b>		<b>Sub Total (C=A+B)</b>			<b>2,47,970.16</b>
<b>D</b>		<b>T&amp;P @ 2% of C</b>			<b>4,959.40</b>
<b>E</b>		<b>Contingency @ 3% of C</b>			<b>7,439.10</b>
<b>F</b>		<b>Transportation @ 7.5% of C</b>			<b>18,597.76</b>
		<b>Erection Charges @ 5% on poles</b>			<b>3,055.08</b>
<b>G</b>		<b>Erection Charges @ 10%</b>			<b>18,686.85</b>
<b>H</b>		<b>Total</b>			<b>3,00,708.36</b>
15	Couping Ratio 1:1.5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	0.9	6500.00	5850.00

16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6500.00	1462.50
	<b>Total Material + Services Cost (J+K)</b>				<b>3,08,020.86</b>
<b>II</b>	<b>Construction of LT Line using 4x95+1x95+1X16 sq. mm LT AB Cable- -0.6 Km.</b>				
1	9 Mtr Long 300 KG PSC Pole	No	18	3900.00	70,200.00
2	LT stay set complete	Set	7	676.00	4,732.00
3	7/12 SWG GI stay wire, Grade-2	Kg	84	97.50	8,190.00
4	LT stay clamp	Pair	7	143.00	1,001.00
5	LT stay set Insulator	No	7	39.00	273.00
	<b>LT Accessories with Eye Hook and Clamp</b>				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	14	260.00	3,640.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	7	78.00	546.00
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	7	84.50	591.50
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	7	442.00	3,094.00
10	4 Cx95(P)+1Cx95(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	630	368.84	2,32,369.20
11	Insulated piercing connector ,Type-A main 50 to 150 sq. mm & Tap -50 to 150 sq. mm	No.	8	113.08	904.64
12	Insulated piercing connector ,Type-C main 16 to 95 sq. mm & Tap -1.5 to 16 sq. mm	No.	4	60.00	240.00
13	GI Pipe Earthing (Each 5th pole to earth)	No	4	1365.00	5,460.00
14	Coil Earthing	No	14	215.80	3,021.20
15	No-8 GI wire (Dia-4.6mm)	Kg	4.7	97.50	458.25
16	Danger plate (LT)	No	18	104.00	1,872.00
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	42	104	4368.00
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	5.42	97.5	528.45
19	GI Nut, Bolt & washers of different sizes	Kg	9	101.40	912.60
20	Yellow colour paint for Background	Ltr	36	216.00	7,776.00
21	Black paint	Ltr	18	286.00	5,148.00
A	<b>TOTAL MATERIAL COST</b>				<b>3,55,325.84</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>10,659.78</b>
C	<b>Sub Total (C=A+B)</b>				<b>3,65,985.62</b>
D	<b>Contingency @3% of C</b>				<b>10,979.57</b>
E	<b>T &amp; P 2% of C</b>				<b>7,341.98</b>
F	<b>Transportation @ 7.5% of C</b>				<b>27,448.92</b>
G	<b>Erection Charges for PSC Pole @ 20%</b>				<b>14,461.20</b>
H	<b>Erection Charges of Joist Poles @ 5%</b>				
I	<b>Erection Charges of other @ 10%</b>				<b>27,905.90</b>
J	<b>Sub Total Rs.</b>				<b>4,54,123.18</b>
<b>Civil and Services Works (As per Technical Specification)</b>					

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	7	2250	15750.00
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1800mm)= 0.45 Cu.Mtr	Cu.Mtr	6.75	6500.00	43,875.00
24	Installation of earth pit, charcoal, salt etc including construction of earthing chamber(size2'x2') and RCC slab cover.	No	4	2407.00	9,628.00
<b>K</b>	<b>Total Services Cost</b>				<b>69,253.00</b>
	<b>Total Material + Services Cost (J+K)</b>				<b>5,23,376.18</b>
	Total Rs.				<b>11,90,908.50</b>
	Cess @ 1%				<b>11909.09</b>
	Total Estimated Cost				<b>12,02,817.59</b>
	Total Estimated Cost in Figures				<b>12,02,818.00</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/-  
Project Manager(Elect.)

Sd/-  
DM (Elect) I/C