

**THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.****JANAPATH, BHOINAGAR, BHUBANESWAR - 22****[Electrical Division]****Ph: 0674-2541545, 2542921, Fax: 0674-2541543****E-mail :- pmelectricalophwc2021@gmail.com, Website: www.ophwc.nic.in****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 BHARATPUR POLICE STATION , UPD, BHUBANESWAR IN THE DIST. OF KHURDA.****BID REF NO :- 105/PM/ELECT/OPHWC/2022-23**

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

<b>Sl. No.</b>	<b>Description of work</b>	<b>Unit</b>	<b>Qty.</b>	<b>Estimated Cost in Rs.</b>	
				<b>RATE IN RS.</b>	<b>AMOUNT IN RS.</b>
<b>I</b>	<b>Installation of 63 KVA DP mounted S/S.</b>				
<b>1</b>	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
<b>2</b>	Top channel GI 100x50x6 mm (9.56 kg/Mtr.,4 Nos.)Each channel length 1.2 Mtr.,4 Nos. channel required(4x9.56x3)	Kg	57.36	76.00	4359.36
<b>3</b>	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	93.00	368.73
<b>4</b>	MU Channel 75X40X 4.8mm.,7.14KG/Mtr., each channel length 3.0 Mtr., 2 no's channel required =( 6x7.14x4.3)	Kg	0	76.00	0.00
<b>5</b>	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
<b>6</b>	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
<b>7</b>	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)	Kg	5.71	76.00	433.96
<b>8</b>	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
<b>9</b>	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
<b>10</b>	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
<b>11</b>	Transformer base GI channel 100x50x6 mm GI channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	57.36	76.00	4359.36
<b>12</b>	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
<b>13</b>	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00
<b>14</b>	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	76.00	396.72
<b>15</b>	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
<b>16</b>	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	93.00	14397.33

17	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	107260.00	107260.00
18	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	22719.28	22719.28
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	9114.00	9114.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7588.80	7588.80
23	PG Clamp for 55 sq. mm AAAC	No	6	595.20	3571.20
24	11 KV Disc insulator polymer type 70 KN	No	3	1426.00	4278.00
25	11 KV H/W fitting polymer type	Pair	3	434.00	1302.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4402.00	13206.00
27	11 KV Pin Insulator polymer type	No	3	248.00	744.00
28	HT Stay Set (Complete)	Set	2	1302.00	2604.00
29	HT Stay Insulator	No.	2	62.00	124.00
30	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	155.00	310.00
31	7/10 SWG Stay Wire	KG	30	93.00	2790.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1302.00	9114.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	96.72	2418.00
34	GI barbed wire/Anticlimbing device	No	6	99.20	595.20
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	93.00	223.87
36	Danger plate	Kg	2	99.20	198.40
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	93.00	55.97
38	Name Plate	No	1	99.20	99.20
39	<b>Structure Numbering and marking</b>				0.00
40	Yellow colour paint for Background	Ltr	2	272.80	545.60
41	Black colour paint for numbering	Ltr	1	272.80	272.80
<b>A</b>	<b>A. Sub total</b>				<b>2,88,700.65</b>
<b>B</b>	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>8,661.02</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>2,97,361.67</b>
<b>D</b>	<b>T&amp;P @ 2% of C</b>				<b>5,947.23</b>
<b>E</b>	<b>Contingency @ 3% of C</b>				<b>8,920.85</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>22,302.13</b>
<b>G</b>	<b>Erection Charges @ 5% for transformer and joist pole cost including stock, storage &amp; insurance @3%</b>				<b>8,255.14</b>
<b>H</b>	<b>Erection Charges @ 10% for other materials</b>				<b>11,686.87</b>
<b>I</b>	<b>Total</b>				<b>3,54,473.89</b>
42	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
43	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1,469.00
44	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

45	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
46	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					91,719.00
				Sub total Rs	4,46,192.89
II	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.18 KM USING 80 SQ. MM AAAC.				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)Including strut 4 Nos.	No	7	26516.95	185618.65
3	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	Kg	137.664	76.00	10462.46
4	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	31.7184	93.00	2949.81
5	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	35.10432	76.00	2667.93
6	Danger plate	No	3	99.20	297.60
7	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.9027	93.00	83.95
8	GI barbed wire/Anticlimbing device	No	63	99.20	6249.60
9	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	25.2756	93.00	2350.63
10	11 KV pin insulator polymer	Set	12	248.00	2976.00
11	H W fitting(B&S) 70KN, 3Bolt	No.	21	434.00	9114.00
12	Disc insulator (B&S) 70 KN polymer	No.	21	1426.00	29946.00
13	Earthing of Support ( Coil Type )	EA	3	205.84	617.52
14	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.786	93.00	73.10
15	PG Clamp for 80 sq.mm AAA conductor	No.	18	657.20	11829.60
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	6	155.00	930.00
17	HT Stay Set (Complete)	Set	1	1302.00	1302.00
18	HT Stay Insulator	No.	1	62.00	62.00
19	7/10 SWG Stay Wire , 15 Kg/stay	KG	15	93.00	1395.00
20	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole )	Kg	22.299	96.72	2156.76
21	Yellow colour paint for Background	Ltr	6	272.80	1636.80
22	Black colour paint for numbering	Ltr	1.5	272.80	409.20
A				A. Sub total	2,73,128.61
B				B. Stock, Storage & Insurance @ 3% of A	8,193.86
C				Sub Total (C=A+B)	2,81,322.47
D				T&P @ 2% of C	5,626.45
E				Contingency @ 3% of C	8,439.67

<b>F</b>		<b>Transportation @ 7.5% of C</b>			<b>21,099.19</b>
		<b>Erection Charges @ 5% on poles</b>			<b>9,559.36</b>
<b>G</b>		<b>Erection Charges @ 10%</b>			<b>8,633.56</b>
<b>H</b>		<b>Total</b>			<b>3,34,680.70</b>
23	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	3	2250.00	6750.00
24	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	9.45	6500.00	61425.00
25	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	2.3625	6500.00	15356.25
		<b>Total Material + Services Cost (J+K)</b>			<b>4,18,211.95</b>
<b>B</b>	<b>11 KV PIN POINTS WITH WPB</b>				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
3	11 KV V cross Arm (10.2 K.g. each )	No.	2	1,004.40	2008.80
4	Top bracket 100x50X6 mm GI channel (2kg each)	No.	2	186.00	372.00
5	Danger Plate	No	2	99.20	198.40
6	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	0.6	93.00	55.80
7	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	6	99.20	595.20
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	2.41	93.00	224.13
9	11 KV pin insulator polymer(Additional 3 Nos. for each support)	Set	6	248.00	1488.00
10	Earthing of Support ( Coil Type )	EA	2	205.84	411.68
11	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.52	93.00	48.36
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each ) Cut Pole	Kg	2.9	96.72	280.49
13	80 sq. mm AAAC	Km	0.5562	53320.00	29656.58
14	Black Paint	Ltr	2	272.80	545.60
15	Yellow Colour Paint for Background	Ltr	4	272.80	1091.20
<b>A</b>		<b>A. Sub total</b>			<b>90,010.14</b>
<b>B</b>		<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>			<b>2,700.30</b>
<b>C</b>		<b>Sub Total (C=A+B)</b>			<b>92,710.44</b>
<b>D</b>		<b>T&amp;P @ 2% of C</b>			<b>1,854.21</b>
<b>E</b>		<b>Contigency @ 3% of C</b>			<b>2,781.31</b>
<b>F</b>		<b>Transportation @ 7.5% of C</b>			<b>6,953.28</b>
<b>G</b>		<b>Erection Charges @ 5% on poles</b>			<b>2,731.25</b>
<b>H</b>		<b>Erection Charges @ 10%</b>			<b>3,808.58</b>

I				Total	1,10,839.08
21	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	0.9	6500.00	5,850.00
22	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.225	6500	1,462.50
	<b>Total Material + Services Cost (J+K)</b>				<b>1,18,151.58</b>
<b>IV</b>	<b>Construction of LT Line using 3x50+1x35 sq. mm LT AB Cable- -0.09 Km.</b>				
1	9 Mtr Long 300 KG PSC Pole	No	3	3720.00	11,160.00
2	LT stay set complete	Set	1	644.80	644.80
3	7/12 SWG GI stay wire, Grade-2	Kg	12	93.00	1,116.00
4	LT stay clamp	Pair	1	136.40	136.40
5	LT stay set Insulator	No	1	37.20	37.20
6	<b>LT Accessories with Eye Hook and Clamp</b>				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	4	248.00	992.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	2	74.40	148.80
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	80.60	161.20
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	2	421.60	843.20
11	3x50+1x35 sq. mm LT Aerial Bunched Cable	K.M	0.0945	161200.00	15,233.40
12	Insulated Piercing connector ,Type-D main 10-50 sq. mm & Tap-1.5 to 10 sq. mm	No	0	34.21	-
13	Pipe Earthing(each 5 th Pole to Earth)	No	1	1302.00	1,302.00
14	Coil Earthing	No	2	205.84	411.68
15	No-8 GI wire (Dia-4.6mm)	Kg	0.786	93.00	73.10
16	Danger plate (LT)	No	3	99.20	297.60
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	93	83.70
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	9	99.2	892.80
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	93	335.73
20	GI Nut, Bolt & washers of different sizes	Kg	1.5	96.72	145.08
21	Yellow colour paint for Background	Ltr	6	272.80	1,636.80
22	Black colour paint for numbering	Ltr	3	272.80	818.40
<b>A</b>	<b>TOTAL MATERIAL COST</b>				<b>36,469.89</b>
<b>B</b>	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>1,094.10</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>37,563.98</b>
<b>D</b>	<b>Contingency @3% of C</b>				<b>1,126.92</b>
<b>E</b>	<b>T &amp; P 2% of C</b>				<b>751.28</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>2,817.30</b>
<b>G</b>	<b>Erection Charges for PSC Pole @ 20%</b>				<b>2,298.96</b>
<b>H</b>	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				
<b>I</b>	<b>Erection Charges of other @ 10%</b>				<b>2,273.60</b>
<b>J</b>	<b>Sub Total Rs.</b>				<b>46,832.04</b>

**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	1	2250	2250
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	1.125	6500.00	7,312.50
45	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>13,262.50</b>
	<b>Total Material + Services Cost (J+K)</b>				<b>60,094.54</b>
	Sub Total Rs.				<b>10,42,650.96</b>
	Cess @1%				<b>10,426.51</b>
	Total Estimated Cost				<b>10,53,077.47</b>
	Total Estimated Cost in Figures				<b>10,53,077.00</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/-  
Asst. Project Manager (Elect) (Hqr)

Sd/-  
Project Manager(Elect.)