

**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 :- 02 AS PER IFB**

**NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 1-B TYPE, 1-C TYPE & 1-D TYPE QTR. FOR SENIOR CIVIL JUDGE-CUM-JUDGE IN CHARGE AT KUJANGA IN THE DIST. OF JAGATSINGHPUR.**

**BID REF NO :- 93/PM/ELECT/OPHWC/2022-23**

**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.
<b>I</b>	<b>CONSTRUCTION OF 11 KV LINE OF LENGTH 0.15 KM USING 50 SQ. MM INSULATED CONDUCTOR</b>				
<b>A</b>	<b>11 KV CUT POINT WITH 180 DEGREE ANGLE</b>				
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	5.286	93.00	491.60
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	248.00	744.00
5	H W fitting(B&S) 70KN, 3Bolt	No.	3	434.00	1302.00
6	Disc insulator (B&S) 70 KN polymer	No.	3	1426.00	4278.00
7	PG Clamp for 80 sq.mm AAA conductor	No.	6	595.20	3571.20
8	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	1	155.00	155.00
9	HT Stay Set (Complete)	Set	1	1302.00	1,302.00
10	HT Stay Insulator	No.	1	62.00	62.00
11	7/10 SWG Stay Wire , 15 Kg/stay	KG	15	93.00	1,395.00
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each ) at Pole	Kg	3.55	96.72	343.36
<b>A</b>	<b>A. Sub total</b>				<b>15,832.19</b>
<b>B</b>	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>474.97</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>16,307.16</b>
<b>D</b>	<b>T&amp;P @ 2% of C</b>				<b>326.14</b>
<b>E</b>	<b>Contingency @ 3% of C</b>				<b>489.21</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>1,223.04</b>
	<b>Erection Charges @ 5% on poles</b>				
<b>G</b>	<b>Erection Charges @ 10%</b>				<b>1,330.57</b>
<b>H</b>	<b>Total</b>				<b>19,676.12</b>
12	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 excavation, 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	2,250.00

		Total Material + Services Cost (J+K)			21,926.12
<b>A</b>	<b>11 KV PIN POINTS WITH WPB</b>				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	3	26516.95	79550.85
2	11 KV V cross Arm (10.2 K.g. each )	No.	3	1,004.40	3013.20
3	Top bracket 100x50X6 mm GI channel (2kg each)	No.	3	186.00	558.00
4	Danger Plate	No	3	99.20	297.60
5	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	0.9	93.00	83.70
6	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	9	99.20	892.80
7	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	3.61	93.00	335.73
8	11 KV pin insulator polymer(Additional 3 Nos. for each support)	Set	9	248.00	2232.00
9	Earthing of Support ( Coil Type )	EA	3	205.84	617.52
10	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.79	93.00	73.47
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each ) Cut Pole	Kg	4.35	96.72	420.73
12	50 sq. mm Insulated Conductor	Km	0.4635	70000.00	32445.00
13	Black Paint	Ltr	3	272.80	818.40
14	Yellow Colour Paint for Background	Ltr	6	272.80	1636.80
<b>A</b>	<b>A. Sub total</b>				<b>1,22,975.80</b>
<b>B</b>	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>3,689.27</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>1,26,665.08</b>
<b>D</b>	<b>T&amp;P @ 2% of C</b>				<b>2,533.30</b>
<b>E</b>	<b>Contingency @ 3% of C</b>				<b>3,799.95</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>9,499.88</b>
<b>G</b>	<b>Erection Charges @ 5% on poles</b>				<b>4,096.87</b>
<b>H</b>	<b>Erection Charges @ 10%</b>				<b>4,472.75</b>
<b>I</b>	<b>Total</b>				<b>1,51,067.83</b>
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	1.35	6500.00	8,775.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.3375	6500	2,193.75
<b>Total Material + Services Cost (J+K)</b>					<b>1,62,036.58</b>
<b>II</b>	<b>Installation of 63 KVA DP mounted S/S.</b>				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53,033.90
2	Top channel GI 100x50x6 mm(3000 mm Long) (9.56 kg/Mtr.,2 Nos.)(2x3000x9.56=57.36)	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	93.00	368.73
4	MU Channel GI 75X40X 4.8mm.,(3000 mm Long) 7.14KG/Mtr., 2 Nos	Kg	42.84	76.00	3,255.84
6	AB switch mounting channel 75x40x4.8 mm GI channel (3000 mm Long)(7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84
7	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.691	76.00	508.52
8	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)channel length 0.8 Mtr.	Kg	5.711	76.00	434.04
9	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long ) (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84

10	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
11	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 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	4,359.36
12	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
13	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	2,052.00
14	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
15	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
17	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For LA and 2.5 mtr. For raising, 11 mtr for AB switch, 2.8 mtr for HG Fuse, 5x2 mtr. for DTR Nutral, (1.3+4.5) mtr. For DTR Body, 0.500 mtr for LTDB & AB Switch operating handle, 3 mtr. for Fencing) ( Each 65.6x 2.36= 154.81 Kg)	Kg	154.816	93.00	14,397.89
14	63 KVA , 11/ 0.4 KV (AL) Transformer BIS Energy level II	No	1	107260.00	1,07,260.00
15	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 63 KVA S/S	No	1	22719.28	22,719.28
16	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2,762.00
17	1Cx400 sq. mm LT XLPE cable(Un Armoured)	Mtr	0	359.66	-
18	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7,194.15
19	11 KV AB switch (200 Amp, 3 pole)	Set	1	9114.00	9,114.00
20	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7588.80	7,588.80
21	PG Clamp for 55 sq. mm AAAC	No	6	595.20	3,571.20
22	H W fitting(B&S) 70KN, 3Bolt	No.	3	434.00	1302.00
23	Disc insulator (B&S) 70 KN polymer	No.	3	1426.00	4278.00
24	11 KV LA (12KV,10 KA)(station class, class-2)	Nos.	3	4402.00	13,206.00
25	11 KV Pin insulator Polymer	No	3	248.00	744.00
29	HT stay set complete	Set	2	1302.00	2,604.00
30	HT stay Clamp (1.9Kg/pair)	Pair	2	155.00	310.00
31	HT stay insulator TYPE-C	No	2	62.00	124.00
32	7/10 SWG GI stay wire, Grade -2 (15Kg./ Set)	Kg	30	93.00	2,790.00
26	40mm Nominal bore GI pipe (medium gauge)earthing device with 3mtr long	No	7	1302.00	9,114.00
27	GI Nut, Bolt & washers of different sizes	Kg	25	96.72	2,418.00
28	GI barbed wire/Anticlimbing device	Kg	6	99.20	595.20
	Back clamp for anticlimbing Device 25x3 mm flat,0.59 Kg/Mtr.,flat of 0.510 Mtr. Length 8 Nos.	Kg	2.4072	93.00	223.87
29	Danger plate	No	2	99.20	198.40
16	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's (Each 2x0.59x0.510)	Kg	0.6018	93.00	55.97
30	Name Plate	No	1	99.20	99.20
31	<b>Structure Numbering and marking</b>				-
32	Yellow colour paint for Background	Ltr	2	272.80	545.60
33	Black colour paint for numbering	Ltr	1	272.80	272.80
A				<b>A. Sub total</b>	<b>2,91,957.45</b>
B				<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>	<b>8,758.72</b>
C				<b>Sub Total (C=A+B)</b>	<b>3,00,716.18</b>
D				<b>T&amp;P @ 2% of C</b>	<b>6,014.32</b>
E				<b>Contingency @ 3% of C</b>	<b>9,021.49</b>

<b>F</b>	<b>Transportation @ 7.5% of C</b>				<b>22,553.71</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>12,022.32</b>
<b>I</b>	<b>Total</b>				<b>3,58,583.16</b>
<b>40</b>	<b>Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.</b>	<b>Cum</b>	<b>0.9</b>	<b>6500.00</b>	<b>5,850.00</b>
<b>41</b>	<b>Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.113 Cu. Mtr.</b>	<b>Cum</b>	<b>0.226</b>	<b>6500.00</b>	<b>1,469.00</b>
<b>42</b>	<b>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.</b>	<b>No</b>	<b>2</b>	<b>2250.00</b>	<b>4,500.00</b>
<b>43</b>	<b>Installation of Earthpit ,charcoal,salt, etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover</b>	<b>No</b>	<b>7</b>	<b>3700.00</b>	<b>25,900.00</b>
<b>45</b>	<b>Supply and Erection of GI fencing with Gate</b>	<b>Sq. Mtr.</b>	<b>15</b>	<b>3600.00</b>	<b>54,000.00</b>
					<b>91,719.00</b>
	<b>Sub total Rs</b>				<b>4,50,302.16</b>
<b>III</b>	<b>Construction of LT Line using 3x50+1x35+1x16 sq. mm LT AB Cable- -250 Mtr.</b>				
<b>1</b>	<b>9 Mtr Long 300 KG PSC Pole</b>	<b>No</b>	<b>8</b>	<b>3720.00</b>	<b>29,760.00</b>
<b>2</b>	<b>LT stay set complete</b>	<b>Set</b>	<b>7</b>	<b>644.80</b>	<b>4,513.60</b>
<b>3</b>	<b>7/12 SWG GI stay wire, Grade-2</b>	<b>Kg</b>	<b>84</b>	<b>93.00</b>	<b>7,812.00</b>
<b>4</b>	<b>LT stay clamp</b>	<b>Pair</b>	<b>7</b>	<b>136.40</b>	<b>954.80</b>
<b>5</b>	<b>LT stay set Insulator</b>	<b>No</b>	<b>7</b>	<b>37.20</b>	<b>260.40</b>
<b>6</b>	<b>LT Accessories with Eye Hook and Clamp</b>				
<b>7</b>	<b>Pole Clamp for Eye Hook for XLPE Aerial bunched cable</b>	<b>Pair</b>	<b>12</b>	<b>248.00</b>	<b>2,976.00</b>
<b>8</b>	<b>Eye Hook for XLPE Aerial Bunched Cable</b>	<b>No</b>	<b>8</b>	<b>74.40</b>	<b>595.20</b>
<b>9</b>	<b>Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)</b>	<b>No</b>	<b>8</b>	<b>80.60</b>	<b>644.80</b>
<b>10</b>	<b>Suspension clamp with Eye Hook for ABC (25-70 sqmm)</b>	<b>No</b>	<b>4</b>	<b>421.60</b>	<b>1,686.40</b>
<b>11</b>	<b>3x50+1x35+1x16 sq. mm LT Aerial Bunched Cable</b>	<b>K.M</b>	<b>0.252</b>	<b>173600.00</b>	<b>43,747.20</b>
<b>12</b>	<b>Pipe Earthing(each 5 th Pole to Earth)</b>	<b>No</b>	<b>2</b>	<b>1302.00</b>	<b>2,604.00</b>
<b>13</b>	<b>Coil Earthing</b>	<b>No</b>	<b>6</b>	<b>205.84</b>	<b>1,235.04</b>

14	No-8 GI wire (Dia-4.6mm)	Kg	2.096	93.00	194.93
15	Danger plate (LT)	No	8	99.20	793.60
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	2.41	93	224.13
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	24	99.2	2380.80
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	9.63	93	895.59
19	GI Nut, Bolt & washers of different sizes	Kg	4	96.72	386.88
20	Yellow colour paint for Background	Ltr	8	272.80	2,182.40
21	Black colour paint for numbering	Ltr	16	272.80	4,364.80
A	<b>TOTAL MATERIAL COST (FOR-2020-21)</b>				<b>1,08,212.57</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				3,246.38
C	<b>Sub Total (C=A+B)</b>				<b>1,11,458.95</b>
D	<b>Contingency @3% of C</b>				3,343.77
E	<b>T &amp; P 2% of C</b>				2,229.18
F	<b>Transportation @ 7.5% of C</b>				8,359.42
G	<b>Erection Charges for PSC Pole @ 20%</b>				6,130.56
H	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				-
I	<b>Erection Charges of other @ 10%</b>				6,417.66
J	<b>Sub Total Rs.</b>				<b>1,37,939.53</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
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	3	6500.00	19,500.00
24	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	2	3700.00	7,400.00
K	<b>Total Services Cost</b>				<b>42,650.00</b>
L	<b>Total Material + Services Cost (J+K)</b>				<b>1,80,589.53</b>
	Total Estimated Cost				<b>8,14,854.40</b>
	Total Estimated Cost in Figures				<b>8,14,854.00</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.)