

**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 ODRAF BUILDING AT OSAP 1ST. BN., DHENKANAL.**

**BID REF NO :- 73/PM/ELECT/OPHWC/2022-23**

<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>I</b>	<b>11 KV LINE WITH 55 SQ. MM AAA INSULATED CONDUCTOR-0.5 KM</b>				
<b>A</b>	<b>11 KV CUT POINT WITH 90 DEGREE ANGLE</b>				
<b>1</b>	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	3	26516.95	79550.85
<b>2</b>	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	88.50	12183.26
<b>3</b>	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	31.7184	88.50	2807.08
<b>4</b>	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	88.50	3106.73
<b>5</b>	Danger Plate	No	3	94.40	283.20
<b>6</b>	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	0.9027	88.50	79.89
<b>7</b>	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	9	94.40	849.60
<b>8</b>	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	3.6108	88.50	319.56
<b>9</b>	11 KV pin insulator polymer	Set	9	236.00	2124.00
<b>10</b>	H W fitting(B&S) 70KN, 3Bolt	No.	18	413.00	7434.00
<b>11</b>	Disc insulator (B&S) 70 KN polymer	No.	18	1357.00	24426.00
<b>12</b>	Earthing of Support ( Coil Type )	EA	3	195.88	587.64
<b>13</b>	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.786	88.50	69.56
<b>14</b>	PG Clamp for 55 sq.mm AAA conductor	No.	18	566.40	10195.20
<b>15</b>	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	6	147.50	885.00
<b>16</b>	HT Stay Set (Complete)	Set	6	1239.00	7,434.00
<b>17</b>	HT Stay Insulator	No.	6	59.00	354.00
<b>18</b>	7/10 SWG Stay Wire , 15 Kg/stay	KG	90	88.50	7,965.00
<b>19</b>	GI Nut , Bolt & Washer of different sizes (7.433 Kg each ) Cut Pole	Kg	22.299	92.04	2052.40
<b>20</b>	Black Paint	K.g.	1.5	259.60	389.40
<b>21</b>	Yellow Colour Paint for Background	Ltr	6	259.60	1557.60
<b>A</b>	<b>A. Sub total</b>				<b>1,64,653.97</b>
<b>B</b>	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>4,939.62</b>
<b>C</b>	<b>Sub Total (C=A+B)</b>				<b>1,69,593.59</b>

<b>D</b>				<b>T&amp;P @ 2% of C</b>	<b>3,391.87</b>
<b>E</b>				<b>Contingency @ 3% of C</b>	<b>5,087.81</b>
<b>F</b>				<b>Transportation @ 7.5% of C</b>	<b>12,719.52</b>
				<b>Erection Charges @ 5% on poles</b>	<b>4,096.87</b>
<b>G</b>				<b>Erection Charges @ 10%</b>	<b>7,051.91</b>
<b>H</b>				<b>Total</b>	<b>2,01,941.57</b>
<b>22</b>	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	6	2250	13,500.00
<b>23</b>	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	1.35	6500.00	8,775.00
<b>24</b>	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.3375	6500	2,193.75
				<b>Total Material + Services Cost (J+K)</b>	<b>2,26,410.32</b>
<b>B</b>	<b>11 KVPIN POINTS WITH WPB</b>				
<b>1</b>	WPB 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No.	10	26,516.95	265169.50
<b>2</b>	11 KV V cross Arm (10.2 K.g. each )	No.	10	955.80	9558.00
<b>3</b>	Top bracket 100x50X6 mm GI channel (2kg each)	No.	10	177.00	1770.00
<b>4</b>	Danger Plate, 1 no's. for each pole	No.	10	94.40	944.00
<b>5</b>	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	3.01	88.50	266.39
<b>6</b>	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	30	94.40	2832.00
<b>7</b>	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	12.04	88.50	1065.54
<b>8</b>	11 KV pin insulator polymer, 3 Nos. required for each support	No.	30	236.00	7080.00
<b>9</b>	Earthing of Support ( Coil Type )	No.	10	195.88	1958.80
<b>10</b>	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	K.g.	2.62	88.50	231.87
<b>11</b>	GI Nut , Bolt & Washer of different sizes (1.45 Kg/ Pin Point)	K.g.	14.5	92.04	1334.58
<b>12</b>	55 mm <sup>2</sup> AAA Insulated PVC Conductor	K.M.	1.545	56,000.00	86520.00
<b>13</b>	Crimping type Midspan Compression Joint for 55 sq.mm AAA conductor	EA	0	267.48	0.00
<b>14</b>	Black Paint	Ltr	10	259.60	2596.00
<b>15</b>	Yellow Colour Paint for Background	Ltr	20	259.60	5192.00
<b>16</b>	Guarding for Road crossing	Span	1	6,000.00	6000.00
<b>A</b>				<b>A. Sub total</b>	<b>3,92,518.68</b>
<b>B</b>				<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>	<b>11,775.56</b>
<b>C</b>				<b>Sub Total (C=A+B)</b>	<b>4,04,294.24</b>
<b>D</b>				<b>T&amp;P @ 2% of C</b>	<b>8,085.88</b>
<b>E</b>				<b>Contingency @ 3% of C</b>	<b>12,128.83</b>
<b>F</b>				<b>Transportation @ 7.5% of C</b>	<b>30,322.07</b>
				<b>Erection Charges @ 5% on poles</b>	<b>13,656.23</b>

<b>G</b>	<b>Erection Charges @ 10%</b>				<b>13,116.92</b>
<b>H</b>	<b>Total</b>				<b>4,81,604.16</b>
<b>24</b>	<b>Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.</b>	<b>Cu. Mtr</b>	<b>4.5</b>	<b>6500.00</b>	<b>29,250.00</b>
<b>25</b>	<b>Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.</b>	<b>Cu. Mtr</b>	<b>1.125</b>	<b>6500</b>	<b>7,312.50</b>
	<b>Total Material + Services Cost (J+K)</b>				<b>5,18,166.66</b>
<b>II</b>	<b>Installation of 1 No. 63 KVA S/S.</b>				
<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>1</b>	WPB 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No	2	26516.95	53,033.90
<b>2</b>	Top Channel GI 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	88.50	5,076.36
<b>3</b>	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	Kg	3.9648	88.50	350.88
<b>4</b>	M.U Channel GI 75x40x4.8 mm (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	42.84	88.50	3,791.34
<b>5</b>	AB Switch Mounting Channel 75x40x4.8 mm GI Channel (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	42.84	88.50	3,791.34
<b>6</b>	AB Switch Side Support Channel 100X50X6mm,9.56 KG/Mtr., each channel length 0.35 mtr., 2 no's channel required =( 9.56x2x0.35)	Kg	6.69	88.50	592.07
<b>7</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	5.71	88.50	505.34
<b>8</b>	HG/ DO Fuse Mounting Channel 75x40x4.8 mm GI Channel (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	42.84	88.50	3,791.34
<b>9</b>	Cantilever Support Channel 75x40x4.8 mm GI Channel (810 mm long,2 No's.) (7.14Kg./Mtr., 2 No's.) (Each 2x0.810x7.14= 11.57 Kg)	Kg	11.57	88.50	1,023.95
<b>10</b>	Cantilever Support Angle 50 X 50 X 6MM GI (1282 mm long) (4.5Kg./Mtr, 2 No's.) (Each 2x1.282x4.5= 11.54Kg)	Kg	11.54	88.50	1,021.29
<b>11</b>	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	88.50	5,076.36
<b>12</b>	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	88.50	871.73
<b>13</b>	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	88.50	2,389.50
<b>14</b>	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	88.50	461.97
<b>15</b>	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	88.50	796.50

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	0.6	88.50	53.10
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	154.82	88.50	13,701.57
18	63 KVA , 11/ 0.4 KV (AL) Transformer BIS Energy level II	No	1	102070.00	1,02,070.00
19	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 63 KVA S/S	Set	1	21619.96	21,619.96
20	55mm <sup>2</sup> All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Km	0.05	56000.00	2,800.00
21	4 Cx 95 mm <sup>2</sup> LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	Mtr.	15	479.61	7,194.15
22	AB Switch(11KV,200A.3pole,50Hz)	Set	1	8673.00	8,673.00
23	H.G.Fuse( 11KV.200A.3Pole)	Set	1	7221.60	7,221.60
24	PG Clamp for 55 sq.mm AAA conductor	No	6	566.40	3,398.40
25	Disc insulator (B&S)70 KN polymer	No	3	1357.00	4,071.00
26	H W fitting (B&S)70KN(3bolted)	Set	3	413.00	1,239.00
27	Lightning Arrester(12KV,10KA) Station Class 2	Nos.	3	4189.00	12,567.00
28	11KV pin insulator polymer	No	3	236.00	708.00
29	HT stay set complete	Set	2	1239.00	2,478.00
30	HT stay Clamp (1.9Kg/pair)	Pair	2	147.50	295.00
31	HT stay insulator TYPE-C	No	2	59.00	118.00
32	7/10 SWG GI stay wire, Grade -2 (15Kg/ Set)	Kg	30	88.50	2,655.00
33	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 mtr .Long	No	7	1239.00	8,673.00
34	GI Nuts & Bolts of Assorted size (25 Kg/ DSS DP)	Kg	25	92.04	2,301.00
35	GI Barbed wire/Anticlimbing device (3Kg /Pole)	Kg	6	94.40	566.40
36	Danger plate 11kv	No	2	94.40	188.80
37	Name plate	No	1	94.40	94.40
38	Yellow colour paint for Background	Ltr	2	259.60	519.20
39	Black colour paint for numbering	Ltr	1	259.60	259.60
A	<b>A. Sub total</b>				<b>2,86,039.03</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>8,581.17</b>
C	<b>Sub Total (C=A+B)</b>				<b>2,94,620.21</b>
D	<b>T&amp;P @ 2% of C</b>				<b>5,892.40</b>
E	<b>Contingency @ 3% of C</b>				<b>8,838.61</b>
F	<b>Transportation @ 7.5% of C</b>				<b>22,096.52</b>
G	<b>Erection Charges @ 5% for transformer and joist pole cost including stock, storage &amp; insurance @3%</b>				<b>7,987.85</b>
H	<b>Erection Charges @ 10% for other materials</b>				<b>12,915.02</b>
I	<b>Total</b>				<b>3,52,350.60</b>
40	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
41	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1,469.00

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	Installation of Earhpit ,charcoal,salt, etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	7	2407.00	16,849.00
44	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
					1,00,668.00
				Sub total Rs	4,53,018.60
<b>III</b>	<b>Construction of LT Line using 3x50 sq. mm+1x35 sq. mm LT AB Cable- -0.2 Km</b>				
1	9 Mtr Long 300 KG PSC Pole	No	6	3540.00	21,240.00
2	LT stay set complete	Set	3	613.60	1,840.80
3	7/12 SWG GI stay wire, Grade-2	Kg	36	88.50	3,186.00
4	LT stay clamp	Pair	3	129.80	389.40
5	LT stay Insulator	No	3	35.40	106.20
	<b>LT Accessories with Eye Hook and Clamp</b>				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	8	236.00	1,888.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	2	70.80	141.60
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	76.70	153.40
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	Pair	6	401.20	2,407.20
10	3x50 sq. mm+1x35 sq. mm LT Aerial Bunched Cable	K.M	0.21	153400.00	32,214.00
11	Insulated piercing connector, Type-B main 16 to 95 sq.mm & Tap-15 to 16 sq. mm	No.	5	40.06	200.30
12	Pipe Earthing(each 5 th Pole to Earth)	No	1	1239.00	1,239.00
13	Coil Earthing	No	5	195.88	979.40
14	No-8 GI wire (Dia-4.6mm)	Kg	1.572	88.50	139.12
15	Danger plate (LT)	No	6	94.40	566.40

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	1.81	88.5	160.19
17	GI Nut, Bolt & washers of different sizes	Kg	3	92.04	276.12
18	Yellow colour paint for Background	Ltr	6	259.60	1,557.60
19	Black colour paint for numbering	Ltr	12	259.60	3,115.20
A	<b>TOTAL MATERIAL COST (FOR-2020-21)</b>				<b>71,799.93</b>
B	<b>Stock, Storage &amp; Insurance @ 3% of A</b>				<b>2,154.00</b>
C	<b>Sub Total (C=A+B)</b>				<b>73,953.92</b>
D	<b>Contingency @3% of C</b>				<b>2,218.62</b>
E	<b>T &amp; P 2% of C</b>				<b>1,479.08</b>
F	<b>Transportation @ 7.5% of C</b>				<b>5,546.54</b>
G	<b>Erection Charges for PSC Pole @ 20%</b>				<b>4,638.82</b>
H	<b>Erection Charges of DTR and Joist Poles @ 5%</b>				<b>-</b>
I	<b>Erection Charges of other @ 10%</b>				<b>4,375.44</b>
J	<b>Sub Total Rs.</b>				<b>92,212.43</b>
<b>Civil and Services Works (As per Technical Specification)</b>					
20	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	3	2250	6750
21	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	2.25	6500.00	14,625.00
22	Installation of Earthing ,charcoal,salt, etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	1	2407.00	2,407.00
K	<b>Total Services Cost</b>				<b>23,782.00</b>
L	<b>Total Material + Services Cost (J+K)</b>				<b>1,15,994.43</b>
	Sub Total Rs.				<b>13,13,590.01</b>
	Cess @1%				<b>13,135.90</b>
	Total Estimated Cost				<b>13,26,725.91</b>
	Total Estimated Cost in Figures				<b>13,26,726.00</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.)