

**THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.****JANAPATH, BHOINAGAR, BHUBANESWAR - 22****[Electrical Division]****Ph: 0674-2541545, 2542921, Fax: 0674-2541543****E-mail :- pmelectricalophwc2025@gmail.com, Website: www.ophwc.com****PRICE BID FOR THE WORK UNDER SL. NO :- 05 AS PER IFB****NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-F TYPE STAFF QUARTERS AT PIPILI POLICE STATION IN THE DISTRICT OF PURI.****BID REF NO :- 88/PM/ELECT/OPHWC/2025-26****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 LT Line using 4x50+1x50+1X16 sq. mm LT AB Cable- -0.18 Km.</b>				
1	9 Mtr Long 300 KG PSC Pole	No	1	4260.00	4,260.00
2	LT stay set complete	Set	6	738.40	4,430.40
3	7/12 SWG GI stay wire, Grade-2	Kg	72	106.50	7,668.00
4	LT stay clamp	Pair	6	156.20	937.20
5	LT stay set Insulator	No	6	42.60	255.60
	<b>LT Accessories with Eye Hook and Clamp</b>				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	14	284.00	3,976.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	12	85.20	1,022.40
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	12	92.30	1,107.60
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	2	482.80	965.60
10	4 Cx50(P)+1Cx50(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	189	206.22	38,975.58
11	Insulated Piercing connector Type-A-main 50 to 150 sq. mm & Tap-50 to 150 sq. mm	Nos.	4	113.08	452.32
12	Coil Earthing	No	1	235.72	235.72
13	No-8 GI wire (Dia-4.6mm)	Kg	0.3	106.50	31.95
14	Danger plate (LT)	No	1	113.60	113.60
15	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	106.5	31.95
16	GI barbed wire/Anticlimbing device 3 kg per support	Kg	3	113.6	340.80
17	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	106.5	127.80
18	GI Nut, Bolt & washers of different sizes	Kg	0.5	110.76	55.38
19	Yellow colour paint for Background	Ltr	2	216.00	432.00
20	Black paint	Ltr	1	312.40	312.40
<b>A</b>	<b>TOTAL MATERIAL COST</b>				<b>65,732.30</b>

<b>B</b>	<b>Stock, Storage &amp; Insurance @ 3% of A</b>	1,971.97
<b>C</b>	<b>Sub Total (C=A+B)</b>	<b>67,704.27</b>
<b>D</b>	<b>Contingency @3% of C</b>	<b>2,031.13</b>
<b>E</b>	<b>T &amp; P 2% of C</b>	<b>1,080.38</b>
<b>F</b>	<b>Transportation @ 7.5% of C</b>	<b>5,077.82</b>
<b>G</b>	<b>Erection Charges for PSC Pole @ 20%</b>	877.56
<b>H</b>	<b>Erection Charges of Joist Poles @ 5%</b>	
<b>I</b>	<b>Erection Charges of other @ 10%</b>	4,962.65
<b>J</b>	<b>Sub Total Rs.</b>	<b>81,733.81</b>

**Civil and Services Works (As per Technical Specification)**

<b>21</b>	<b>Fixing of LT complete stay set includes(1) Turn Buckle assembly(2)Stay Rod &amp; stay Plate(3)Stay Insulator(4)Stay Wire(5)stay Clamps with Nuts &amp; 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)</b>	<b>No</b>	<b>6</b>	<b>2301.53</b>	<b>13809.18</b>
<b>22</b>	<b>Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.</b>	<b>Cu.Mtr</b>	<b>0.375</b>	<b>6648.85</b>	<b>2,493.32</b>
<b>Total Services Cost</b>					<b>16,302.50</b>
<b>Total Material + Services Cost (J+K)</b>					<b>98,036.31</b>

**II INSTALLATION OF 250 KVA S/S.**

<b>1</b>	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	<b>Kg</b>	57.36	106.50	6108.84
<b>2</b>	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	<b>Kg</b>	3.965	106.50	422.25
<b>3</b>	AB Switch Mounting Channel(GI) 75x40x4.8 mm GI Channel(GI) (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	<b>Kg</b>	42.84	106.50	4562.46
<b>4</b>	AB Switch Side Support Channel(GI) 100X50X6mm,9.56 KG/Mtr., each Channel(GI) length 0.35 mtr., 2 no's Channel(GI) required =( 9.56x2x0.35)	<b>Kg</b>	6.69	106.50	712.49
<b>5</b>	Channel(GI) Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 0.8 Mtr., 1 no's Channel(GI) required =( 7.14x0.8x1)	<b>Kg</b>	5.71	106.50	608.12
<b>6</b>	HG/ DO Fuse Mounting Channel(GI) 75x40x4.8 mm GI Channel(GI) (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	<b>Kg</b>	42.84	106.50	4562.46
<b>7</b>	Cantilever Support Channel(GI) 75x40x4.8 mm GI Channel(GI) (810 mm long,2 No's.) (7.14Kg./Mtr., 2 No's.) (Each 2x0.810x7.14= 11.57 Kg)	<b>Kg</b>	11.57	106.50	1232.21
<b>8</b>	Cantilever Support Angle(GI) 50 X 50 X 6MM GI (1282 mm long) (4.5Kg./Mtr, 2 No's.) (Each 2x1.282x4.5= 11.54Kg)	<b>Kg</b>	11.54	106.50	1229.01

9	Double Pole Belting Channel(GI) 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 3.0 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	Kg	42.84	106.50	4562.46
10	50x50x6mm.GI Bracing Angle(GI), 4.5Kg./mtr., each Angle(GI) length 3.512 mtr., 2 nos Angle(GI) required = (4.5x3.512x2)	Kg	31.61	106.50	3366.47
11	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	154.8	106.50	16488.33
12	250 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	619789.27	619789.27
13	LT Distrubution Box with MCCB, Aluminim Busbar of 3 Bay with kit kat Fuse for 250 KVA S/S.	No	1	68160.00	68160.00
14	55 sq. mm AAAC XLPE covered conductor	Mtr	50	99.74	4987.00
15	1Cx400 sq. mm LT XLPE cable	Mtr	120	363.08	43569.60
16	LT Cable Supporting Channel(GI) 100 X 50 X 6 MM GI Channel(GI) (2000 mm long)(9.56 Kg./Mtr., 2 No's.) (Each 2x2x9.56= 28.56 Kg)	Kg	38.24	106.50	4072.56
17	LT Cable Supproting Angle(GI), 50x50x6mm.GI 4.5Kg./mtr., each Angle(GI) length 2 mtr., 4 nos Angle(GI) required = (4.5x4x2)	Kg	36	106.50	3834.00
18	Supply of 1.1 KV 4 core 150 sq. mm XLPE Insulation armoured-Aluminium UG cable from LTDB to Pole.	Mtr.	60	805.08	48304.80
19	11 KV AB switch (200 Amp, 3 pole)	Set	1	10437.00	10437.00
20	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8690.00	8690.00
21	Wedge connector for 55 sq. mm conductor	EA	6	100.00	600.00
22	Polycarbonate Bird Guard	No	6	29.40	176.40
23	11 KV Disc insulator polymer type 70 KN	No	3	1633.00	4899.00
24	11 KV H/W fitting polymer type	Pair	3	497.00	1491.00
25	11 KV LA (12KV,10 KA)station class-2	No	3	5041.00	15123.00
26	11 KV Pin Insulator polymer type	No	3	284.00	852.00
27	HT Stay Set (Complete)	Set	2	1491.00	2982.00
28	HT Stay Insulator	No.	2	177.50	355.00
29	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.60	143.20
30	7/10 SWG Stay Wire	KG	30	106.50	3195.00
31	GI Pipe for earthing 40mm dia 3mtr long	No	7	1491.00	10437.00
32	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2769.00
33	GI barbed wire/Anticlimbing device	No	6	113.60	681.60
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	2.407	106.50	256.37
35	Danger plate	Kg	2	113.60	227.20
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	0.602	106.50	64.09
37	Name Plate	No	1	113.60	113.60
	<b>Structure Numbering and marking</b>				

38	Yellow colour paint for Background	Ltr	2	216.00	432.00
39	Black colour paint for numbering	Ltr	1	312.40	312.40
A	<b>A. Sub total</b>				<b>900,809.17</b>
B	<b>B. Stock, Storage &amp; Insurance @ 3% of A</b>				<b>27,024.28</b>
C	<b>Sub Total (C=A+B)</b>				<b>927,833.44</b>
D	<b>T&amp;P @ 2% of C</b>				<b>16,311.53</b>
E	<b>Contingency @ 3% of C</b>				<b>27,835.00</b>
F	<b>Transportation @ 7.5% of C</b>				<b>69,587.51</b>
G	<b>Erection Charges @ 5% for transformer and joist pole cost including stock, storage &amp; insurance @3%</b>				<b>31,919.15</b>
H	<b>Erection Charges @ 20% on PSC Poles</b>				
I	<b>Erection Charges @ 10% for other materials</b>				<b>17,719.39</b>
J	<b>Total</b>				<b>1,091,206.03</b>
40	PCC ratio 1:3:6(M-10) grade for DSS area (3.5x2.5x0.1)=0.875 Cu Mtr.	Cu. Mtr	0.875	5247.48	4,591.55
41	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	2301.53	4,603.06
42	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	3784.73	26,493.11
43	LT DB Plinth	No	1	6000.00	6,000.00
44	DTR Plinth upto 1000 KVA	No	1	28000.00	28,000.00
45	Laying of 4Cx150 sq.mm LT XLPE cable	Mtr.	60	73.65	4,419.00
46	Laying of 1.1 KV Cable from 400-1000 sq. mm	Mtr.	120	96.66	11,599.20
47	Supply and Erection of GI fencing with Gate	Sq. Mtr.	18	3682.44	66,283.92
48	Supply of AL Lugs suitable for 400 sq mm cable/conductor, Crimping with cable and Fixing/connecting include supply and erection of PVC Tape as per voltage requirement.	No	16	322.21	5,155.36

49	Supply of AL Lugs suitable for 150 sq mm cable/conductor, Crimping with cable and Fixing/connecting include supply and erection of PVC Tape as per voltage requirement.	No	24	156.50	3,756.00
50	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 sqmm including making hole in Base plate and dressing of cable along with vermin proofing properly .Supply to be done as per TPCODL Spec and approved make dowells.	No	8	1227.48	9,819.84
51	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 3.5/4 C 120-185 sqmm including making hole in Base plate and dressing of cable along with vermin proofing properly .Supply to be done as per TPCODL Spec and approved make dowells.	No	3	920.61	2,761.83
					173,482.87
				<b>Sub total Rs</b>	<b>1,264,688.89</b>
<b>PART-III</b>	<b>Supply and Laying of 1.1 KV LT U/G Line of 50 Mtr. using 1.1 KV , 4 C x 95 Sq. mm XLPE Insulation armoured-Aluminium UG cable with accessories-Multimeter Panel in Open Trench method-0.050 Km</b>				
1	<b>Supply of materials for 1.1 KV XLPE insulation armoured UG cable with accessories-Open trench (along with spare cable)</b>				
a	<b>Length of 1.1 KV, 4C, 95 sq. mm XLPE insulation armoured-Aluminium UG Cable(open trench)</b>	<b>Mtr.</b>	<b>50</b>		
1.1	Supply of 1.1 KV ,4 core, 95 sq. mm XLPE insulation armoured - Aluminium UG Cable	Mtr	100	499.41	49,941.00
1.2	Supply of HDPE PE 80-PN8 pipe of 110mm diameter	Mtr	100	279.91	27,991.00
2	<b>supply of 1.1 KV Multimeter Panel</b>				
a	No. of 1.1 KV I/C -400 A & 10 Nos. of O/G 63 A	No	1		
2.1	Supply of 1.1 KV I/C -400 A & 10 Nos. of O/G 63 A	No	1	217000.00	217,000.00
3	<b>Earthing of Multimeter Panel</b>				
3.1	Earthing conductor 50x6mm (2.4 Kg/Mtr.)GI flat for equipment ,structure etc.)	Kg	13.2	106.50	1,405.80
3.2	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 Mtr. Long	Nos	2	1491.00	2,982.00
<b>A</b>				<b>A. Sub total</b>	<b>299,319.80</b>
	<b>Erection Portion</b>				
1	<b>Laying ,commissioning ,Testing of 1.1 KV , Aluminium, XLPE insulation armoured UG cable by open trench method</b>				

1.1	Laying of 1.1 KV ,4 core 95 sq. mm XLPE insulation armoured-aluminium UG cable	Mtr	100	47.87	4,787.00
1.2	Laying of 110mm HDPE Pipe	Mtr	100	306.87	30,687.00
2	<b>SITC of Gland /AL term</b>				
2.1	Supply and erection of double compression flameproof type glanding for armoured cable 3.5/4 core ,50-95 sq. mm including making hole in Base plate and dressing of cable along with vermin proofing properly .supply to be done as per TPCODL specification and approved make dowells.	EA	3	690.46	2,071.38
					37,545.38
<b>Civil Portion</b>					
2	<b>Civil works with supply of all materials like cement, MS tor rod, brick, coarse &amp; fine aggregates and labour, T&amp;P, etc for LT UG Cable Trench</b>				
2.1	Earth work excavation of <b>soil Trench Dimension(1.6 Mtr. Wx1.275 Mtr. D)</b>	Cum	64.26	716.03	46,012.09
2.2	Earth work excavation of <b>hard rock Trench Dimension(1.6 Mtr. Wx1.275 Mtr. D)</b>	Cum	27.54	1,759.39	48,453.60
2.3	Back filling with excavated soil outside and above the trench	Cum	25.99	204.58	5,317.03
2.4	PCC(1:3:6) (M-10 Grade)below trench (width 1500 mm ,thickness 75 mm throughout)	Cum	5.063	5,247.48	26,565.37
2.5	Supply and Erection of material for RCC partition Slab 750 mmx100 mm(M-25 Grade)	Cum	4.388	7,483.54	32,834.03
2.6	Supply and Erection of material for RCC trench,150 mm thick(M-25 Grade)	Cum	20.93	7,483.54	156,593.07
2.6	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC trench(0.6523 Quint/cum	Kg	1365	111.50	152,190.81
2.7	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC slabs(0.678 Quint/cum)	Kg	297.5	111.50	33,168.24
2.8	Concreting and shuttering of Mass Concrete	M2	175.5	307.89	54,034.70
2.9	Structural steel work riveted Channel (GI-75x40x4.8 mm)GI Flat -75x6 mm	Kg	128.1	130.00	16,654.95
3	<b>Civil works for Prefabricated RCC foundation with supply of all materials</b>				
3.1	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.	Set	2	3,784.73	7,569.46

	<b>Sub Total (Civil Portion) (in Rs.)</b>				<b>579,393.35</b>
<b>A</b>	<b>Sub Total (Supply Portion)</b>				<b>299,319.80</b>
<b>B</b>	Stock, Storage & Insurance @ 3 % of A				8,979.59
<b>C</b>	<b>Sub Total (A+B)</b>				<b>308,299.39</b>
<b>D</b>	Contingency @ 3 % of C				9,248.98
<b>E</b>	Tools & Plants Charges @ 2% of C (considered for multimeter panel and earthing items)				4,499.16
<b>F</b>	Transportation @ 7.5% of C				23,122.45
<b>G</b>	Erection Charges @ 10% of earthing items and Multimeter Panel				22,495.80
<b>H</b>	<b>Total (C+D+E+F+G)</b>				<b>367,665.79</b>
<b>I</b>	Sub Total (Erection Portion + Civil Portion)				616,938.73
<b>J</b>	<b>Total Cost (H+I)</b>				<b>984,604.52</b>
	<b>Dismantling charges</b>				
<b>IV</b>	Dismantling of existing 11/0.4KV, 33/0.4KV, Three Phase Distribution Transformer below 100KVA including removal of HT/LT leads, earth connections and unloading by crane if required	<b>No.</b>	<b>1</b>	<b>3262.64</b>	<b>3,262.64</b>
				<b>Sub Total Rs.</b>	<b>2,350,592.36</b>
	Cess @ 1%				23505.92
	Total Estimated Cost				<b>2,374,098.28</b>
	Total Estimated Cost in Figures				<b>2,374,098.00</b>
EXCESS	<input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)	In Figure _____ %			
		In word _____ %			
	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/-**  
**Dy. Manager (Elect)**

**Sd/-**  
**Project Manager (Elect)**