

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 A, B & C-TYPE QUARTERS AT OMFED, ARILO, CUTTACK IN THE DISTRICT OF CUTTACK.

BID REF NO :- 89/PM/ELECT/OPHWC/2023-24

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	CONSTRUCTION OF 11 KV LINE .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/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 =(42x9.56x0.306)	Kg	11.70144	97.50	1140.89
5	Danger plate	No	1	104.00	104.00
6	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.3009	97.50	29.34
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
8	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	1.2036	97.50	117.35
9	11 KV pin insulator polymer	Set	5	260.00	1300.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	455.00	4095.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1495.00	13455.00
12	Earthing of Support (Coil Type)	No	1	215.80	215.80
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.262	97.50	25.55
14	PG Clamp for 55 sq. mm AAAC	No	3	624.00	1872.00
15	PG Clamp for 80 sq. mm AAAC	No	9	689.00	6201.00
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
17	HT Stay Set (Complete)	Set	2	1365.00	2730.00
18	HT Stay Insulator	No.	2	65.00	130.00
19	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00

20	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	101.40	753.71
21	Yellow colour paint for Background	Ltr	2	216.00	432.00
22	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				71,472.56
B	B. Stock, Storage & Insurance @ 3% of A				2,144.18
C	Sub Total (C=A+B)				73,616.74
D	T&P @ 2% of C				1,346.47
E	Contingency @ 3% of C				2,208.50
F	Transportation @ 7.5% of C				5,521.26
	Erection Charges @ 5% on poles				1,527.54
G	Erection Charges @ 10%				3,677.26
H	Total				87,897.76
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 excvaton, 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
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	0.45	6500.00	2925.00
25	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	Total Material + Services Cost (J+K)				96,054.01
C	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
2	55 SQ. mm All Alloy conductor	Km	0.0309	39000.00	1205.10
A	A. Sub total				30,866.10
B	B. Stock, Storage & Insurance @ 3% of A				925.98
C	Sub Total (C=A+B)				31,792.08
D	T&P @ 2% of C				635.84
E	Contingency @ 3% of C				953.76
F	Transportation @ 7.5% of C				2,384.41
	Erection Charges @ 5% on poles				1,527.54
G	Erection Charges @ 10%				124.13
H	Total				37,417.76
3	Couping Ratio 1:1:5:3(500 mmx500mmx1800mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
	Total Material + Services Cost (J+K)				40,342.76
II	INSTALLATION OF 500 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00

2	9 Mtr Long 300 KG PSC Pole(For raising of LT ABC)	No	1	3900.00	3900.00
3	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	2	260.00	520.00
4	Eye Hook for XLPE Aerial Bunched Cable	No	2	78.00	156.00
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	84.50	169.00
6	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	97.50	5592.60
7	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
8	Double pole Belting Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	97.50	4176.90
9	50X50X6 mm.GI Bracing Angle,4.5 Kg/Mtr.,3512 mm Long, 4.5KG/Mtr., 2 Nos.	Kg	31.608	97.50	3081.78
10	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	97.50	4176.90
11	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	97.50	652.28
12	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.711	97.50	556.82
13	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	97.50	4176.90
14	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	97.50	1128.08
15	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	97.50	1125.15
16	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	97.50	15093.98
17	500 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	1201519.03	1201519.03
18	LT Distrubution Box with MCCB, Aluminim Busbar of 4 Bay with kit kat Fuse for 500 KVA S/S.	No	1	126149.00	126149.00
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
20	1Cx400 sq. mm LT XLPE cable	Mtr	180	359.66	64738.80
21	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
23	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
24	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
25	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
27	11 KV Pin Insulator polymer type	No	3	260.00	780.00
28	HT Stay Set (Complete)	Set	2	1365.00	2730.00
29	HT Stay Insulator	No.	2	65.00	130.00
30	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
31	7/10 SWG Stay Wire	KG	30	97.50	2925.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
34	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
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	97.50	234.70
36	Danger plate	Kg	2	104.00	208.00

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	97.50	58.68
38	Name Plate	No	1	104.00	104.00
39	Structure Numbering and marking				
40	Yellow colour paint for Background	Ltr	2	216.00	432.00
41	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				15,61,261.15
B	B. Stock, Storage & Insurance @ 3% of A				46,837.83
C	Sub Total (C=A+B)				16,08,098.99
D	T&P @ 2% of C				30,505.67
E	Contingency @ 3% of C				48,242.97
F	Transportation @ 7.5% of C				1,20,607.42
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				64,933.31
H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				22,260.02
J	Total				18,95,451.78
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 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	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	LT DB Plinth	No	1	3000.00	3,000.00
47	DTR Plinth upto 1000 KVA	No	1	30360.00	30,360.00
48	Laying of 1Cx400 sq.mm LT XLPE cable	Mtr.	180	72.00	12,960.00
49	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
50	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.375	6500.00	2,437.50
					1,58,476.50
	Sub total Rs				20,53,928.28
III	Construction of LT Line -0.24 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	9	3900.00	35,100.00
2	LT stay set complete	Set	3	676.00	2,028.00
3	7/12 SWG GI stay wire, Grade-2	Kg	36	97.50	3,510.00
4	LT stay clamp	Pair	3	143.00	429.00
5	LT stay set Insulator	No	3	39.00	117.00
6	LT Accessories with Eye Hook and Clamp				

7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	12	260.00	3,120.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	10	78.00	780.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	10	84.50	845.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	2	442.00	884.00
11	4 Cx95(P)+1Cx95(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	189	368.64	69,672.96
12	4 Cx70(P)+1Cx70(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	63	305.00	19,215.00
13	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	5	113.08	565.40
14	GI Pipe for earthing (each 5th pole to earth)	No	2	1365.00	2,730.00
15	Coil Earthing	No	7	215.80	1,510.60
16	No-8 GI wire (Dia-4.6mm)	Kg	2.358	97.50	229.91
17	Danger plate (LT)	No	9	104.00	936.00
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	2.71	97.5	264.23
19	GI barbed wire/Anticlimbing device 3 kg per support	Kg	27	104	2808.00
20	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	10.83	97.5	1055.93
21	GI Nut, Bolt & washers of different sizes	Kg	4.5	101.40	456.30
22	Yellow colour paint for Background	Ltr	18	216.00	3,888.00
23	Black paint	Ltr	9	286.00	2,574.00
A	TOTAL MATERIAL COST				1,52,719.32
B	Stock, Storage & Insurance @ 3% of A				4,581.58
C	Sub Total (C=A+B)				1,57,300.89
D	Contingency @3% of C				4,719.03
E	T & P 2% of C				2,964.45
F	Transportation @ 7.5% of C				11,797.57
G	Erection Charges for PSC Pole @ 20%				7,230.60
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				11,206.95
J	Sub Total Rs.				1,95,219.49
Civil and Services Works (As per Technical Specification)					
24	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	6750.00
25	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	3.375	6500.00	21,937.50

26	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	Total Services Cost				36,087.50
	Total Material + Services Cost (J+K)				2,31,306.99
IV	Construction of 11 KV UG LINE of 0.04 KM using 4 core x 95 Sq. mm XLPE cable with 1 run spare .				
	Length of 1.1 KV, 4C, 35 sq. mm cable(Open trench)	Km	0.12		
1	Supply of 1.1 KV , 4 core 35 sq. mm XLPE insulation armoured UG Cable	Mtr.	40	213.38	8,535.20
2	Supply of 1.1 KV , 4 core 70 sq. mm XLPE insulation armoured UG Cable	Mtr.	60	376.78	22,606.80
3	Supply of 1.1 KV , 4 core 150 sq. mm XLPE insulation armoured UG Cable	Mtr.	40	732.12	29,284.80
4	Supply of HDPE PE 80-PN8 pipe of 110mm diameter	Mtr.	105	357.60	37,548.00
5	Supply of 1.1 KV I/C-160A & 20 Nos. of O/G 32 A	Nos	2	207000.00	4,14,000.00
6	Supply of 1.1 KV I/C-160A & 24 Nos. of O/G 32 A	Nos	1	207000.00	2,07,000.00
7	Supply of 1.1 KV I/C-160A & 5 Nos. of O/G 63 A	Nos	1	95000.00	95,000.00
8	Earthing conductor 50x6mm (2.4 Kg/mtr.) GI flat for equipment,structure etc.	Kg	45.6	97.50	4,446.00
9	Pipe earthing 40 mm GI pipe	No	6	1365.00	8,190.00
A	A. Sub total				8,26,610.80
	Laying , Commissioning ,Testing of 1.1 KV aluminium, XLPE insulation armoured UG cable by open trench method				
1	Laying of 1.1 KV ,4 core 35 sq. mm XLPE insulation armoured-Aluminium UG cable	Mtr	40	46.8	1,872.00

2	Laying of 1.1 KV ,4 core 70 sq. mm XLPE insulation armoured-Aluminium UG cable	Mtr	60	46.8	2,808.00
3	Laying of 1.1 KV ,4 core 150 sq. mm XLPE insulation armoured-Aluminium UG cable	Mtr	40	72	2,880.00
4	Laying of 110 mm dia HDPE pipe	Mtr.	105.00	300	31,500.00
5	Supply and erection of double compression Flameproof type Glanding for armoured cable 3.5/4C 16-35 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.	No	4	360	1,440.00
6	Supply and erection of double compression Flameproof type Glanding for armoured cable 3.5/4C 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.	No	6	675	4,050.00
7	Supply and erection of double compression Flameproof type Glanding for armoured cable 3.5/4C 120-185 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.	No	4	900	3,600.00
					48,150.00
	Civil works with supply of all materials like cement, MS ton rod, bricks, course & fine aggregates and labour, T&P, etc for UG Cable trench				
1	Earth work excavation of soil(1 Mtr. Width x 1 mtr. Depth)				
2	Earth work excavation of soil	cum	31.5	700.00	22,050.00
3	Earth work excavation of hard rock	Cum	13.5	1720.00	23,220.00
4	Back filling with excavation soil outside and above the trench	Cum	45	202.00	9,090.00
5	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	Set	6	3700.00	22,200.00
				SubTotal	76,560.00
A				A. Sub total	8,26,610.80
B				B. Stock, Storage & Insurance @ 3% of A	24,798.32
C				Sub Total (C=A+B)	8,51,409.12
D				T&P @ 2%	10,576.99
E				Contigency @ 3% of C	25,542.27
F				Transportation @ 7.5% of C	63,855.68
G				Erection charges @10% of earthing items and Multimeter Panel	52,884.94

H					Total	10,04,269.01
I	Sub Total(Erection+civil)					1,24,710.00
	Total Rs.					11,28,979.01
	Total Rs.					35,50,611.06
	Cess @ 1%					35,506.11
	Total Estimated Cost					35,86,117.17
	Total Estimated Cost in Figures					35,86,117.00
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/-
D.M (Elect) I/C**

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