

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 :- 07 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 12-F TYPE QUARTERS AT PURI FIRE STATION IN THE DISTRICT OF PURI.

BID REF NO :- 01/PM/ELECT/OPHWC/2024-25

NAME & ADDRESS OF THE FIRM	
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SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.03 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	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	76.00	3487.49
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	97.50	1030.85
3	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	76.00	889.31
4	11 KV pin insulator polymer	Set	4	260.00	1040.00
5	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
6	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
7	Earthing of Support (Coil Type)	EA	1	215.80	215.80
8	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	101.40	753.71
A	A. Sub total				19,117.15
B	B. Stock, Storage & Insurance @ 3% of A				573.51
C	Sub Total (C=A+B)				19,690.67
D	T&P @ 2% of C				393.81
E	Contingency @ 3% of C				590.72
F	Transportation @ 7.5% of C				1,476.80
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				1,969.07
H	Total				24,121.07

9	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 as per TPCODL.	No	2	2250.00	4500.00
10	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
11	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)					32,277.32
B	11 KV PIN POINTS WITH WPB				
1	55 sq. mm AAAC	Km	0.0927	39000.00	3614.91
A	A. Sub total				3,614.91
B	B. Stock, Storage & Insurance @ 3% of A				108.45
C	Sub Total (C=A+B)				3,723.36
D	T&P @ 2% of C				74.47
E	Contigency @ 3% of C				111.70
F	Transportation @ 7.5% of C				279.25
		Erection Charges @ 5% on poles			
G	Erection Charges @ 10%				372.34
H	Total				4,561.11
II	INSTALLATION OF 250 KVA S/S.				
1	WPB GI Pole 160X152(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	76.00	4359.36
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 75x40x4.8 mm ,7.14 Kg/Mtr., each channel length 3.0 Mtr.,2 Nos. required	Kg	42.84	76.00	3255.84
9	50x50x6 mm GI Bracing Angle,4.5 Kg/Mtr. ,each angle Length 3.512 Mtr.,2 Nos. angle required.	Kg	31.608	76.00	2402.21
10	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	76.00	3255.84
11	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
12	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

13	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	76.00	434.04
14	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
15	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
16	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
17	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
18	250 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	573210.00	573210.00
19	LT Distrubution Box with MCCB, Aluminim Busbar of 3 Bay with kit kat Fuse for 250 KVA S/S.	No	1	62400.00	62400.00
20	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
21	1 Cx 400 sq. mm LT XLPE cable(Un Armoured)	Mtr	120	359.66	43159.20
22	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
23	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
24	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
25	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
26	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
27	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
28	11 KV Pin Insulator polymer type	No	3	260.00	780.00
29	HT Stay Set (Complete)	Set	2	1365.00	2730.00
30	HT Stay Insulator	No.	2	65.00	130.00
31	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
32	7/10 SWG Stay Wire	KG	30	97.50	2925.00
33	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
34	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
35	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
36	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
37	Danger plate	Kg	2	104.00	208.00
38	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
39	Name Plate	No	1	104.00	104.00
	Structure Numbering and marking				
43	Yellow colour paint for Background	Ltr	2	216.00	432.00
44	Black colour paint for numbering	Ltr	1	286.00	286.00
A				A. Sub total	8,45,439.88
B				B. Stock, Storage & Insurance @ 3% of A	25,363.20
C				Sub Total (C=A+B)	8,70,803.08
D				T&P @ 2% of C	16,204.00
E				Contingency @ 3% of C	26,124.09
F				Transportation @ 7.5% of C	65,310.23
G				Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%	32,575.40

H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				15,469.00
J	Total				10,27,289.20
45	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
46	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
47	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
48	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
	LT DB Plinth	No	1	3000.00	3,000.00
51	DTR Plinth	No	1	25000.00	25,000.00
49	Laying of 1Cx400 sq.mm LT XLPE cable	Mtr.	120	72.00	8,640.00
50	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
52	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.345 Cu. Mtr.	Cu. Mtr	0.375	6500.00	2,437.50
					1,48,796.50
	Sub total Rs				11,76,085.70
III	Construction of LT Line using 4C×95 mm ² (P)+1C×95 mm ² (M)+1CX16 mm ² (Street Light) (LT AB Cable)- -0.3 Km.				
1	9 Mtr. long 300 Kg. PSC Pole	No	10	3900.00	39,000.00
2	LT Stay set Complete	Set	7	676.00	4,732.00
3	7/12 SWG GI stay wire, Grade -2	Kg	84	97.50	8,190.00
4	LT stay Clamp (1.40Kg/pair)	Pair	7	143.00	1,001.00
5	LT Stay insulator	No	7	39.00	273.00
	LT Accessories with Eye Hook and Clamp				
6	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	21	260.00	5,460.00
7	EYE hook for XLPE Aerial bunched Cable	No	14	78.00	1,092.00
8	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No	14	84.50	1,183.00
9	Suspension Clamp with EYE hook for ABC	No	7	442.00	3,094.00
10	4C×95 mm ² (P)+1C×95 mm ² (M)+1CX16 mm ² (Street Light) (LT AB Cable)	Mtr	315	368.64	1,16,121.60
11	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No	6	113.08	678.48
12	Pipe Earthing (each 5th pole to earth)	No	2	1365.00	2,730.00
13	Coil Earthing	No	8	215.8	1726.40
14	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	2.6	97.5	253.50
15	Danger plate (LT)	Kg	10	104	1040.00

16	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	97.50	293.48
17	GI barbed wire anticlimbing device 3 Kg. Per support	Ltr	30	104.00	3,120.00
18	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	97.50	1,173.90
19	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	5	101.40	507.00
20	Black Paint	Ltr.	10	286.00	2,860.00
21	Yellow Colour Paint for Background	Ltr	20	216.00	4,320.00
A	TOTAL MATERIAL COST				1,98,849.36
B	Stock, Storage & Insurance @ 3% of A				5,965.48
C	Sub Total (C=A+B)				2,04,814.84
D	Contingency @3% of C				6,144.45
E	T & P 2% of C				3,747.65
F	Transportation @ 7.5% of C				15,361.11
G	Erection Charges for PSC Pole @ 20%				8,034.00
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				14,721.26
J	Sub Total Rs.				2,52,823.30
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	7	2250	15750
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	3.75	6500.00	24,375.00
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				47,525.00
	Total Material + Services Cost (J+K)				3,00,348.30
	Sub Total Rs.				15,13,272.44
	Cess @1%				15,132.72
	Total Estimated Cost				15,28,405.16
	Total Estimated Cost in Figures				15,28,405.00

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/-
DM (Elect) I/C**

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