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 ADMINISTRATIVE BUILDING AT P.T.C, ANGUL IN THE DISTRICT OF ANGUL.

BID REF NO :- 23/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.
I	**CONSTRUCTION OF 11 KV LINE .**				
A	**11 KV CUT POINT WITH 180 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	22.94	106.50	2443.11
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.286	106.50	562.96
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	106.50	623.03
4	11 KV pin insulator polymer	Set	3	284.00	852.00
5	H W fitting(B&S) 70KN, 3Bolt	No.	3	497.00	1491.00
6	Disc insulator (B&S) 70 KN polymer	No.	3	1633.00	4899.00
7	Non metallic ties -11 KV 55 sq. mm AAAC	No	3	251.00	753.00
8	IPC for 55 sq. mm AAAC(For covered conductor)	No	3	550.00	1650.00
9	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	110.76	393.20
A	**A. Sub total**				**13,667.29**
B	**B. Stock, Storage & Insurance @ 3% of A**				**410.02**
C	**Sub Total (C=A+B)**				**14,077.31**
D	**T&P @ 2% of C**				**281.55**
E	**Contigency @ 3% of C**				**422.32**
F	**Transportation @ 7.5% of C**				**1,055.80**
	Erection Charges @ 5% on poles				
G	**Erection Charges @ 10%**				**1,407.79**
H	**Total**				**17,244.76**
B	**11 KV PIN POINTS WITH WPB**				
1	55 sq. mm AAAC XLPE covered conductor	Mtr.	61.80	99.74	6163.93

A	**A. Sub total**				**6,163.93**
B	**B. Stock, Storage & Insurance @ 3% of A**				**184.92**
C	**Sub Total (C=A+B)**				**6,348.85**
D	**T&P @ 2% of C**				**126.98**
E	**Contigency @ 3% of C**				**190.47**
F	**Transportation @ 7.5% of C**				**476.16**
	Erection Charges @ 5% on poles				
G	**Erection Charges @ 10%**				**634.88**
H	**Total**				**7,777.34**
II	**INSTALLATION OF 100 KVA S/S.**				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73608.54
2	9 Mtr Long 300 KG PSC Pole(For raising of LT ABC)	No	1	4260.00	4260.00
3	Pole Clamp for Eye Hook for XLPE Areial bunched cable	Pair	2	284.00	568.00
4	Eye Hook for XLPE Areial Bunched Cable	No	2	85.20	170.40
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	92.30	184.60
6	LT Cable raising Channel(GI) 75x40x4.8 mm GI Channel(GI) (1000 mm long)(7.14Kg./Mtr., 6 No's.)(Each 6x1.000x7.14= 42.84 Kg)	Kg	21.42	106.50	2,281.23
7	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	106.50	6108.84
8	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	106.50	422.25
9	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4562.46
10	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	106.50	712.49
11	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	106.50	608.22
12	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4562.46
13	Cantilever suport channel75x40x4.8 mm GI channel (810 mm Long,2 Nos.) (7.14 kg/mtr, 2 Nos.)	Kg	11.57	106.50	1232.21
14	Cantilever suport angle 50x50x6 mm GI (1282 mm Long) (4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1229.01
15	Double pole Belting Channel 75X40X 4.8mm., 3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	106.50	4562.46
16	50X50X6 mm.GI Bracing Angle,4.5 Kg/Mtr., 3512 mm Long, 4.5KG/Mtr., 2 Nos.	Kg	31.608	106.50	3366.25

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	106.50	16487.27
18	100 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II,Ammendment-4	No	1	193901.46	193901.46
19	LT Distrubution Box with MCCB, Aluminim Busbar of 2 Bay with kit kat Fuse for 100 KVA S/S.	No	1	34674.98	34674.98
20	55 sq. mm AAAC XLPE covered conductor	Mtr	50	99.74	4987.00
21	4Cx150 sq. mm LT XLPE cable(Armoured)	Mtr	15	805.08	12076.20
22	1.1 kv 4 core ,150 sq. mm XLPE insulation armoured aluminium UG cable From LT DB to Pole	Mtr.	40	805.08	32203.20
23	11 KV AB switch (200 Amp, 3 pole)	Set	1	10437.00	10437.00
24	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8690.00	8690.00
25	Wedge connector for 55 sq. mm conductor	EA	6	100.00	600.00
26	Polycarbonate Bird Guard	No	6	29.40	176.40
27	11 KV Disc insulator polymer type 70 KN	No	3	1633.00	4899.00
28	11 KV H/W fitting polymer type	Pair	3	497.00	1491.00
29	11 KV LA (12KV,10 KA)station class-2	No	3	5041.00	15123.00
30	11 KV Pin Insulator polymer type	No	3	284.00	852.00
31	HT Stay Set (Complete)	Set	2	1491.00	2982.00
32	HT Stay Insulator	No.	2	177.50	355.00
33	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.60	143.20
34	7/10 SWG Stay Wire	KG	30	106.50	3195.00
35	GI Pipe for earthing 40mm dia 3mtr long	No	7	1491.00	10437.00
36	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2769.00
37	GI barbed wire/Anticlimbing device	No	6	113.60	681.60
38	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	106.50	256.37
39	Danger plate	Kg	2	113.60	227.20
40	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	106.50	64.09
41	Name Plate	No	1	113.60	113.60
	Structure Numbering and marking				
42	Yellow colour paint for Background	Ltr	2	216.00	432.00
43	Black colour paint for numbering	Ltr	1	312.40	312.40
A	**A. Sub total**				**467,006.38**
B	**B. Stock, Storage & Insurance @ 3% of A**				**14,010.19**
C	**Sub Total (C=A+B)**				**481,016.57**
D	**T&P @ 2% of C**				**8,355.68**
E	**Contigency @ 3% of C**				**14,430.50**
F	**Transportation @ 7.5% of C**				**36,076.24**
G	**Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%**				**13,776.76**
H	**Erection Charges @ 20% on PSC Poles**				**877.56**

I	**Erection Charges @ 10% for other materials**				**13,786.09**
J	**Total**				**568,319.40**
44	**Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.**	**Cum**	**0.9**	**6648.85**	**5,983.97**
45	**Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.**	**Cu. Mtr**	**0.226**	**6648.85**	**1,502.64**
46	**PCC ratio 1:3:6(M-10) grade for DSS area (3.5x2.5x0.1)=0.875 Cu Mtr.**	**Cu. Mtr**	**0.525**	**5247.48**	**2,754.93**
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**	**2301.53**	**4,603.06**
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**	**3784.73**	**26,493.11**
49	**DTR Plinth upto 1000 KVA**	**No**	**1**	**28000.00**	**28,000.00**
50	**Laying of 4Cx150 sq.mm LT XLPE cable**	**Mtr.**	**55**	**73.65**	**4,050.75**
51	**Supply and Erection of GI fencing with Gate**	**Sq. Mtr.**	**16**	**3682.44**	**58,919.04**
52	**Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.45 Cu. Mtr.**	**Cum**	**0.375**	**6648.85**	**2,493.32**
53	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**
54	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 3.5 core 120-185 sq. mm 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**
	Sub Total				141,318.64
	Sub total Rs				**709,638.04**
IV	**LT Line using 4C×70 mm² (P)+1CX70 mm²(M)+1CX16 mm²(Street Light) (LT AB Cable)- -0.15 Km**				
1	9 Mtr Long 300 KG PSC Pole	No	7	4260.00	29,820.00
2	LT Stay set Complete	Set	8	738.40	5,907.20
3	7/12 SWG GI stay wire, Grade -2	Kg	96	106.50	10,224.00
4	LT stay Clamp (1.40Kg/pair)	Pair	9	156.20	1,405.80
5	LT Stay insulator	No	8	42.60	340.80
	LT Accessories with Eye Hook and Clamp				
6	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	11	284.00	3,124.00
7	EYE hook for XLPE Aerial bunched Cable	No	11	85.20	937.20

8	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No	10	92.30	923.00
9	Suspension Clamp with EYE hook for ABC	No	1	482.80	482.80
10	4C×70 mm² (P)+1CX70 mm²(M)+1CX16 mm²(Street Light)(Street Light) (LT AB Cable)	Mtr	157.5	283.91	44,715.83
11	Pipe Earthing (each 5th pole to earth)	No	1	1491.00	1,491.00
12	Coil Earthing	No	6	235.72	1414.32
13	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	1.833	106.5	195.21
14	Danger plate (LT)	Kg	7	113.6	795.20
15	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	Kg	2.11	106.50	224.72
16	GI barbed wire anticlimbing device 3 Kg. Per support	Ltr	21	113.60	2,385.60
17	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	Kg	8.43	106.50	897.80
18	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	3.5	110.76	387.66
19	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr.	14	216.00	3,024.00
20	Black paint (GIS Numbering & Zebra stripping)	Ltr	7	312.40	2,186.80
A	**TOTAL MATERIAL COST**				**110,882.93**
B	**Stock, Storage & Insurance @ 3% of A**				3,326.49
C	**Sub Total (C=A+B)**				**114,209.42**
D	**Contingency @3% of C**				**3,426.28**
E	**T & P 2% of C**				**1,885.18**
F	**Transportation @ 7.5% of C**				**8,565.71**
G	**Erection Charges for PSC Pole @ 20%**				6,142.92
H	**Erection Charges of DTR and Joist Poles @ 5%**				
I	**Erection Charges of other @ 10%**				6,354.42
J	**Sub Total Rs.**				**140,583.93**
Civil and Services Works (As per Technical Specification)					
21	**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**	**8**	**2301.53**	**18412.24**
22	**Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr**	**Cu.Mtr**	**2.63**	**6648.85**	**17,453.23**

23	**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**	**1**	**3784.73**	**3,784.73**
K	**Total Services Cost**				**39,650.20**
	Total Material + Services Cost (J+K)				**180,234.13**
	Total Rs.				**914,894.27**
	Cess @1%				**9,148.94**
	Total Estimated Cost				**924,043.22**
	Total Estimated Cost in Figures				**924,043.00**

EXCESS ☐ LESS ☐ (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)