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 240 MEN BARRACK AT SOG, CHANDAKA, BHUBANESWAR IN THE DISTRICT OF KHURDA.

BID REF NO :-78/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 90 DEGREE ANGLE				
1	WPB(GI) 160x152 mm (11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	36804.27	36804.27
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	106.50	4887.07
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	106.50	1126.00
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	106.50	1246.20
5	Danger plate	No	1	113.60	113.60
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	106.50	32.05
7	GI barbed wire/Anticlimbing device	No	3	113.60	340.80
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	106.50	128.18
9	11 KV pin insulator polymer	Set	4	284.00	1136.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	497.00	2982.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1633.00	9798.00
12	Earthing of Support (Coil Type)	No	1	235.72	235.72
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.262	106.50	27.90
14	Wedge connector for 55 sq. mm conductor	No	6	100.00	600.00
15	Polycarbonate Bird Guard	No	10	29.40	294.00
16	H.T. Stay clamp, 50x8 mm. Flat(GI), 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	EA	2	177.50	355.00

17	H.T. Stay set (Complete)	SET	2	1491.00	2982.00
18	H.T. Stay Insulator Type-C	EA	2	71.00	142.00
19	7/10 SWG Stay Wire 15kg /stay	KG	30	106.50	3195.00
20	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	110.76	823.28
21	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	2	216.00	432.00
22	Black paint (GIS Numbering & Zebra stripping)	Ltr	0.5	312.40	156.20
A				**A. Sub total**	**67,837.28**
B				**B. Stock, Storage & Insurance @ 3% of A**	**2,035.12**
C				**Sub Total (C=A+B)**	**69,872.40**
D				**T&P @ 2% of C**	**1308.08**
E				**Contigency @ 3% of C**	**2,096.17**
F				**Transportation @ 7.5% of C**	**5,240.43**
		Erection Charges @ 5% on poles			**1,895.42**
G				**Erection Charges @ 10%**	**2,508.97**
H				**Total**	**82,921.47**
23	Fixing of complete 11KV 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 BA will do the excvation including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material as per TPCODL Drawing & Standard.	**No**	**2**	**2301.53**	**4,603.06**
24	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	**Cum**	**0.45**	**6648.85**	**2,991.98**
25	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	**Cum**	**0.1125**	**6648.85**	**748.00**
				Total Material + Services Cost (J+K)	**91,264.51**
C	**11 KV PIN POINTS WITH WPB**				
1	55 sq. mm AAAC	Km	0.12	42600.00	5265.36
A				**A. Sub total**	**5,265.36**
B				**B. Stock, Storage & Insurance @ 3% of A**	**157.96**
C				**Sub Total (C=A+B)**	**5,423.32**

D				T&P @ 2% of C	108.47
E				Contigency @ 3% of C	162.70
F				Transportation @ 7.5% of C	406.75
		Erection Charges @ 5% on poles			
G				Erection Charges @ 10%	542.33
H				Total	6,643.57
IV	INSTALLATION OF 250 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	2	4260.00	8520.00
3	Pole Clamp for Eye Hook for XLPE Areial bunched cable	Pair	3	284.00	852.00
4	Eye Hook for XLPE Areial Bunched Cable	No	3	85.20	255.60
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	3	92.30	276.90
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	42.84	106.50	4,562.46
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	Double pole Belting Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	106.50	4562.46
10	50X50X6 mm.GI Bracing Angle,4.5 Kg/Mtr.,3512 mm Long, 4.5KG/Mtr., 2 Nos.	Kg	31.608	106.50	3366.25
11	MU channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4562.46
12	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
13	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
14	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
15	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
16	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
17	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1229.01
18	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
19	250 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	619789.27	619789.27

20	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
21	55 sq. mm AAAC XLPE covered conductor	Mtr	50	99.74	4987.00
22	1Cx400 sq. mm LT XLPE cable	Mtr	120	363.08	43569.60
23	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
24	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
25	Supply of 1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	Mtr.	60	805.08	48304.80
26	11 KV AB switch (200 Amp, 3 pole)	Set	1	10437.00	10437.00
27	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8690.00	8690.00
28	Wedge connector for 55 sq. mm conductor	EA	6	100.00	600.00
29	Polycarbonate Bird Guard	No	6	29.40	176.40
30	11 KV Disc insulator polymer type 70 KN	No	3	1633.00	4899.00
31	11 KV H/W fitting polymer type	Pair	3	497.00	1491.00
32	11 KV LA (12KV,10 KA)station class-2	No	3	5041.00	15123.00
33	11 KV Pin Insulator polymer type	No	3	284.00	852.00
34	HT Stay Set (Complete)	Set	2	1491.00	2982.00
35	HT Stay Insulator	No.	2	177.50	355.00
36	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.60	143.20
37	7/10 SWG Stay Wire	KG	30	106.50	3195.00
38	GI Pipe for earthing 40mm dia 3mtr long	No	7	1491.00	10437.00
39	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2769.00
40	GI barbed wire/Anticlimbing device	No	6	113.60	681.60
41	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
42	Danger plate	Kg	2	113.60	227.20
43	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
44	Name Plate	No	1	113.60	113.60
	Structure Numbering and marking				
45	Yellow colour paint for Background	Ltr	2	216.00	432.00
46	Black colour paint for numbering	Ltr	1	312.40	312.40
A				**A. Sub total**	**993,445.96**
B				**B. Stock, Storage & Insurance @ 3% of A**	**29,803.38**
C				**Sub Total (C=A+B)**	**1,023,249.34**
D				**T&P @ 2% of C**	**18,219.88**
E				**Contigency @ 3% of C**	**30,697.48**
F				**Transportation @ 7.5% of C**	**76,743.70**
G				**Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%**	**35,709.98**

H	**Erection Charges @ 20% on PSC Poles**				**1,755.08**
I	**Erection Charges @ 10% for other materials**				**18,801.86**
J	**Total**				**1,205,177.32**
47	**Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.**	**Cum**	**0.9**	**6648.85**	**5,983.97**
48	**Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.**	**Cu. Mtr**	**0.226**	**6648.85**	**1,502.64**
49	**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**
50	**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**
51	**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**
52	**LT DB Plinth**	**No**	**1**	**6000.00**	**6,000.00**
53	**DTR Plinth upto 1000 KVA**	**No**	**1**	**28000.00**	**28,000.00**
54	**Laying of 4Cx150 sq.mm LT XLPE cable**	**Mtr.**	**60**	**73.65**	**4,419.00**
55	**Laying of 1Cx400 sq.mm LT XLPE cable**	**Mtr.**	**120**	**96.66**	**11,599.20**
56	**Supply and Erection of GI fencing with Gate**	**Sq. Mtr**	**18**	**3682.44**	**66,283.92**
57	**Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.45 Cu. Mtr.**	**Cum**	**0.75**	**6648.85**	**4,986.64**
58	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**
59	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**
60	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**
61	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm 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**
					185,956.11
	Sub total Rs				**1,391,133.42**

II-Construction of 11 kv line using 3Cx95 sq. mm XLPE U/G cable of Length 30 Mtr .

Supply Portion

1	**Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories**				
a	**Length of 11kV 3C, 95sqmm cable (open trench)**	**Mtr.**	**30**		
1.1	Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)	Mtr.	60.00	911.86	54,711.60
1.2	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)	Set	4	15,547.58	62,190.32
1.3	Supply of **HDPE** PE 80-PN8 pipe of **160 mm** diameter (for 95 sqmm HT cable laying)	Mtr.	28.00	613.86	17,188.08
	Sub Total (Supply Portion) (in Rs.)				**134,090.00**

Erection Portion

Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	**Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method**				
1.1	Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.	Mtr.	60.00	100.17	6,010.20
1.2	Erection of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits for 3core (set)	Set	4	1,944.33	7,777.32
1.3	Laying of **160 mm dia** PE 80-PN8, **HDPE pipe** inside open trench.	Mtr.	28.00	306.87	8,592.36
	Sub Total (Erection Portion) (in Rs.)				**22,379.88**

Civil Portion

Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	**Civil works with supply of all materials like cement, MS tor rod, brick, coarse & fine aggregates and labour, T&P, etc for UG Cable Trench**				
2.1	Earth work excavation of **soil**	cum	9.8	716.03	7,017.09
2.2	Earth work excavation of **Hard rock(1.6 Mtr. Wx1.775 Mtr. D)**	Cum	4.2	1759.39	7,389.44
2.3	Back filling with excavated soil outside and above the trench	Cum	14	204.58	2,864.12

2.4	Supply and Erection of Cable Route Marker along the cable route at an interval of 30mtrs with civil works	Nos.	1	1,035.17	1,035.17
2.5	Supply and erection of GI Pipe of dia. 150mm, Class-B (8Mtr.)	Mtr.	32	1,496.91	47,901.12
	Sub Total (Civil Portion) (in Rs.)				**66,206.94**
A	**Sub Total (Supply Portion)**				**134,090.00**
B	Stock, Storage & Insurance @ 3 % of A				4,022.70
C	**Sub Total (A+B)**				**138,112.70**
D	Contingency @ 3 % of C				4,143.38
E	Tools & Plants Charges @ 2% of C (considered for earthing items)				
F	Transportation @ 7.5% of C				10,358.45
G	Erection Charges @ 10% of earthing items				
H	**Total (C+D+E+F+G)**				**152,614.53**
I	Sub Total (Erection Portion + Civil Portion)				88,586.82
J	**Total Cost (H+I)**				**241,201.36**
	Sub Total Rs.				**1,730,242.86**
	Cess @1%				**17,302.43**
	Total Estimated Cost				**1,747,545.29**
	Total Estimated Cost in Figures				**1,747,545.00**
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)