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 :- 05 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-E+6-F TYPE QUARTERS AT MARINE POLICE STATION, CHANDRABHAGA IN THE DISTRICT OF PURI.

BID REF NO :-62/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	11.47	106.50	1221.98
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	2.643	106.50	281.48
3	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	2.9253	106.50	311.54
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	Wedge connector for 55 sq. mm conductor	No	6	100.00	600.00
8	Polycarbonate Bird Guard	Nos.	9	29.40	264.60
9	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	1.775	110.76	196.60
A				**A. Sub total**	**10,118.20**
B				**B. Stock, Storage & Insurance @ 3% of A**	**303.55**
C				**Sub Total (C=A+B)**	**10,421.75**
D				**T&P @ 2% of C**	**208.44**
E				**Contigency @ 3% of C**	**312.65**
F				**Transportation @ 7.5% of C**	**781.63**
				Erection Charges @ 5% on poles	
G				**Erection Charges @ 10%**	**1,042.18**
H				**Total**	**12,766.64**
B	**11 KV PIN POINTS WITH WPB**				

1	WPB GI Pole160X152(13 Mtr. Long ,30.44 Kg/Mtr.)	No	1	43,287.99	43,287.99
2	11 KV V cross arm	No	1	1,150.20	1,150.20
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	1	213.00	213.00
4	Danger plate	No	1	113.60	113.60
5	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	106.50	31.95
6	GI barbed wire/Anticlimbing device	No	3	113.60	340.80
7	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	106.50	127.80
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	3	284.00	852.00
9	Earthing of Support (Coil Type)	No	1	235.72	235.72
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.26	106.50	27.69
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	1.45	110.76	160.60
12	55 sq. mm AAAC	Km	0.12	42,600.00	5,265.36
13	Yellow colour paint for Background	Ltr	2	216.00	432.00
14	Black colour paint for numbering	Ltr	1	312.40	312.40
15	Polycarbonate Bird Guard	No	3	29.40	88.20
A				**A. Sub total**	**52,639.31**
B				**B. Stock, Storage & Insurance @ 3% of A**	**1,579.18**
C				**Sub Total (C=A+B)**	**54,218.49**
D				**T&P @ 2% of C**	**1,084.37**
E				**Contigency @ 3% of C**	**1,626.55**
F				**Transportation @ 7.5% of C**	**4,066.39**
				Erection Charges @ 5% on poles	**2,229.33**
G				**Erection Charges @ 10%**	**963.10**
H				**Total**	**64,188.23**
16	**Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.**	**Cum**	**0.55**	**6,648.85**	**3,656.87**
17	**Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.**	**Cum**	**0.1125**	**6,648.85**	**748.00**
				Total Material + Services Cost (J+K)	**68,593.10**
II	**INSTALLATION OF 63 KVA S/S.**				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36,804.27	73,608.54
2	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	106.50	6,108.84
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	106.50	422.25
4	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4,562.46
5	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

6	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
7	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4,562.46
8	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	106.50	1,232.21
9	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1,229.01
10	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	4,562.46
11	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	3,366.47
12	50x6mm Flat(GI) for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For LA and 2.5 mtr. For raising, 11 mtr for AB switch, 2.8 mtr for HG Fuse, 5x2 mtr. for DTR Nutral, (1.3+4.5) mtr. For DTR Body, 0.500 mtr for LTDB & AB Switch operating handle, 3 mtr. for Fencing) (Each 65.6x 2.36= 154.81 Kg)	Kg	154.82	106.50	16,488.33
13	63 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	No	1	141,308.92	141,308.92
14	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 63 KVA S/S	No	1	26,017.24	26,017.24
15	55 SQ.MM. AAAC XLPE Covered Conductor	Mtr	50	99.74	4,987.00
16	4 Cx 95 mm2 LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	Mtr	15	499.41	7,491.15
17	4 Cx 95 mm2 LT XLPE Cable(Armoured) - From LT DB to Pole	Mtr	40	499.41	19,976.40
18	11 KV AB switch (200 Amp, 3 pole)	Set	1	10,437.00	10,437.00
19	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8,690.00	8,690.00
20	Wedge connector for 55 sq. mm conductor	EA	6	100.00	600.00
21	Polycarbonate Bird Guard	No	6	29.40	176.40
22	11 KV Disc insulator polymer type 70 KN	No	3	1,633.00	4,899.00
23	11 KV H/W fitting polymer type	Pair	3	497.00	1,491.00
24	11 KV LA (12KV,10 KA)station class-2	No	3	5,041.00	15,123.00
25	11 KV Pin Insulator polymer type	No	3	284.00	852.00
26	HT Stay Set (Complete)	Set	2	1,491.00	2,982.00
27	HT Stay Insulator	No.	2	177.50	355.00
28	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.60	143.20
29	7/10 SWG Stay Wire	KG	30	106.50	3,195.00
30	GI Pipe for earthing 40mm dia 3mtr long	No	7	1,491.00	10,437.00
31	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2,769.00
32	GI barbed wire/Anticlimbing device	No	6	113.60	681.60
33	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

34	Danger plate	Kg	2	113.60	227.20
35	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
36	Name Plate	No	1	113.60	113.60
	Structure Numbering and marking				
37	Yellow colour paint for Background	Ltr	2	216.00	432.00
38	Black colour paint for numbering	Ltr	1	312.40	312.40
A	**A. Sub total**				**381,481.30**
B	**B. Stock, Storage & Insurance @ 3% of A**				**11,444.44**
C	**Sub Total (C=A+B)**				**392,925.74**
D	**T&P @ 2% of C**				**6,940.16**
E	**Contigency @ 3% of C**				**11,787.77**
F	**Transportation @ 7.5% of C**				**29,469.43**
G	**Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%**				**11,068.25**
H	**Erection Charges @ 20% on PSC Poles**				
I	**Erection Charges @ 10% for other materials**				**12,564.38**
J	**Total**				**464,755.73**
39	**Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.**	**Cum**	**0.9**	**6,648.85**	**5,983.97**
40	**Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.**	**Cu. Mtr**	**0.226**	**6,648.85**	**1,502.64**
41	**PCC ratio 1:3:6(M-10) grade for DSS area (3.5x2.5x0.1)=0.875 Cu Mtr.**	**Cu. Mtr**	**0.525**	**5,247.48**	**2,754.93**
42	**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**	**2,301.53**	**4,603.06**
43	**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**	**3,784.73**	**26,493.11**
44	**DTR Plinth**	**No**	**1**	**28,000.00**	**28,000.00**
45	**Laying of 4Cx95 sq.mm LT XLPE cable**	**Mtr.**	**55**	**47.87**	**2,632.85**
46	**Supply and Erection of GI fencing with Gate**	**Sq. Mtr.**	**16**	**3,682.44**	**58,919.04**
47	Supply of AL Lugs suitable for 95 sq mm cable/conductor, Crimping with cable and Fixing/connecting include supply and erection of PVC Tape as per voltage requirement.	**No**	**24**	**92.06**	**2,209.44**

48	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 3.5/4 core 50-95 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**	**690.46**	**2,071.38**
					135,170.41
	Sub total Rs				**599,926.14**
III	**Construction of LT Line using 4x50+1x50+1X16 sq. mm LT AB Cable- -0.4 Km.**				
1	9 Mtr Long 300 KG PSC Pole	No	13	4,260.00	55,380.00
2	LT stay set complete	Set	3	738.40	2,215.20
3	7/12 SWG GI stay wire, Grade-2	Kg	36	106.50	3,834.00
4	LT stay clamp	Pair	3	156.20	468.60
5	LT stay set Insulator	No	3	42.60	127.80
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Areial bunched cable	Pair	16	284.00	4,544.00
7	Eye Hook for XLPE Areial Bunched Cable	No	6	85.20	511.20
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	6	92.30	553.80
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	10	482.80	4,828.00
10	4 Cx50(P)+1Cx50(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	420	206.22	86,612.40
11	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	5	113.08	565.40
12	GI Pipe for earthing (each 5th pole to earth)	EA	3	1,491.00	4,473.00
13	Coil Earthing	No	10	235.72	2,357.20
14	No-8 GI wire (Dia-4.6mm)	Kg	3.4	106.50	362.10
15	Danger plate (LT)	No	13	113.60	1,476.80
16	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	3.91	106.50	416.42
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	39	113.60	4,430.40
18	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	15.65	106.50	1,666.73
19	GI Nut, Bolt & washers of different sizes	Kg	6.5	110.76	719.94
20	Yellow colour paint for Background	Ltr	26	216.00	5,616.00
21	Black paint	Ltr	13	312.40	4,061.20
A	**TOTAL MATERIAL COST**				**185,220.18**
B	**Stock, Storage & Insurance @ 3% of A**				5,556.61
C	**Sub Total (C=A+B)**				**190,776.79**
D	**Contingency @3% of C**				**5,723.30**
E	**T & P 2% of C**				**3,586.50**
F	**Transportation @ 7.5% of C**				**14,308.26**
G	**Erection Charges for PSC Pole @ 20%**				11,408.28
H	**Erection Charges of Joist Poles @ 5%**				
I	**Erection Charges of other @ 10%**				12,228.37
J	**Sub Total Rs.**				**238,031.50**

Civil and Services Works (As per Technical Specification)					
22	**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	2,301.53	6,904.59
23	**Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.**	Cu.Mtr	4.875	6,648.85	32,413.14
24	**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	3	3,784.73	11,354.19
K				Total Services Cost	50,671.92
				Total Material + Services Cost (J+K)	288,703.42
III	**Supply and Laying of 1.1 KV LT U/G Cable using 4 C x 95 Sq. mm of length 30 Mtr alongwith Multimeter Panel.**				
1	**Supply of materials for 1.1 KV XLPE insulation armoured UG cablele with accessories-Open trench (along with spare cable)**				
A	**Length of 1.1 KV, 4C, 95 sq. mm XLPE insulation armoured-Aluminium UG Cable(open trench)**	Mtr.	30		
1.1	4 core 95 sq. mm XLPE insulation armoured - Aluminium UG Cable	Mtr	60	499.41	29,964.60
1.4	Supply of **HDPE** PE 80-PN8 pipe of **110 mm** diameter (for 95 sqmm HT cable laying)	Mtr.	60	279.91	16,794.60
2	**supply of 1.1 KV Multimeter Panel**				
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 63A	No	2	217,000.00	434,000.00
3	**Earthing of Multimeter Panel**				
3.1	Earthing conductor 50x6mm (2.4 Kg/Mtr.)GI flat for equipment ,structure etc.)	Kg	26.4	106.50	2,811.60
3.2	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 Mtr. Long	Nos	4	1,491.00	5,964.00
A				A. Sub total	489,534.80
	Erection Portion				

1	**Laying ,commissioning ,Testing of 1.1 KV , Aluminium, XLPE insulation armoured UG cable by open trench method**				
1.1	Laying of **HDPE** PE 80-PN8 pipe of **110 mm** diameter (for 95 sqmm HT cable laying)	**Mtr**	**60**	**306.87**	**18,412.20**
1.2	Laying of 1.1 KV ,4 core 95 sq. mm XLPE insulation armoured-aluminium UG cable	**Mtr**	**60**	**47.87**	**2,872.20**
2	**SITC of Gland /AL term**				
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**
					23,355.78
Civil Portion					
2	**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 normal **soil(1.6 Mtr. Wx1.275 Mtr. D)**	cum	35.7	716.03	25,562.27
2.2	Earth work excavation of **Hard rock(1.6 Mtr. Wx1.275 Mtr. D)**	Cum	15.3	1,759.39	26,918.67
2.3	Back filling with excavated soil outside and above the trench	Cum	14.437	204.58	2,953.60
2.4	PCC(1:3:6),M-10 Grade below trench (width 1500 mm ,thickness 75 mm throughout)	Cum	2.8125	5,247.48	14,758.54
2.5	Supply and Erection of material for RCC partition Slab 750mmx100 mm(M-25 Grade)	Cum	2.4375	7,483.54	18,241.13
2.6	Supply and Erection of material for RCC trench (150 mm thick(M-25 Grade)	Cum	11.625	7,483.54	86,996.15
2.7	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC trench(65.23 Kg/cum)	Kg	758.3	111.50	84,550.34
2.8	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC slabs(67.8 Kg/cum)	Kg	165	111.50	18,426.82
2.9	Centering and shuttering of mass concrete	M2	97.5	307.89	30,019.28
2.1	Structural steel work riveted (channel GI-75x40x4.8 mm)(Flat GI-75x6mm)	Kg	71.175	130.00	9,252.75
3	**Civil works for Prefabricated RCC foundation with supply of all materials**				
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	4	3,784.73	15,138.92
	Sub Total (Civil Portion) (in Rs.)				**332,818.47**

A	**Sub Total (Supply Portion)**	**489,534.80**
B	Stock, Storage & Insurance @ 3 % of A	14,686.04
C	**Sub Total (A+B)**	**504,220.84**
D	Contingency @ 3 % of C	15,126.63
E	Tools & Plants Charges @ 2% of C (considered for multimeter panel and earthing items)	8,998.34
F	Transportation @ 7.5% of C	37,816.56
G	Erection Charges @ 10% of earthing items	44,991.59
H	**Total (C+D+E+F+G)**	**611,153.96**
I	Sub Total (Erection Portion + Civil Portion)	356,174.25
J	**Total Cost (H+I)**	**967,328.21**
	Sub Total Rs.	**1,937,317.51**
	Cess @1%	**19,373.18**
	Total Estimated Cost	**1,956,690.69**
	Total Estimated Cost in Figures	**1,956,691.00**

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)