

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.**JANAPATH, BHOINAGAR, BHUBANESWAR - 22****[Electrical Division]****Ph: 0674-2541545, 2542921, Fax: 0674-2541543****E-mail :- pmelectricalophwc2025@gmail.com, Website: www.ophwc.com****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 TYPE STAFF QUARTERS AT ARAKHAKUDA MARINE POLICE STATION IN THE DISTRICT OF PURI.****BID REF NO :-89/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	PSC Pole 10 Mtr. Long 330 KG	No	4	9230.00	36920.00
2	9 Mtr. Long 300 Kg. PSC Pole (for stud stay)	No	4	4260.00	17040.00
3	PSC Pole Clamp(GI)	No	8	113.60	908.80
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	183.552	106.50	19548.29
5	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	42.2912	106.50	4504.01
6	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	46.8058	106.50	4984.81
7	Danger plate	No	4	113.60	454.40
8	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	1.2036	106.50	128.18
9	GI barbed wire/Anticlimbing device	No	12	113.60	1363.20
10	Back clamp for Anticlimbing Device 25x3 mm, flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	4.8144	106.50	512.73
11	11 KV pin insulator polymer	Set	16	284.00	4544.00
12	H W fitting(B&S) 70KN, 3Bolt	No.	24	497.00	11928.00
13	Disc insulator (B&S) 70 KN polymer	No.	24	1633.00	39192.00
14	Earthing of Support (Coil Type)	No	4	235.72	942.88
15	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.048	106.50	111.61
16	Non metallic ties -11 KV 55 sq. mm AAAC	No	16	251.00	4016.00

17	IPC for 55 sq. mm AAAC(For covered conductor)	No	24	550.00	13200.00
18	Spike GI using 50x6 mm GI Flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	No	8	332.00	2656.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	29.732	110.76	3293.12
20	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	8	216.00	1728.00
21	Black paint (GIS Numbering & Zebra stripping)	Ltr	2	312.40	624.80
A	A. Sub total				168,600.84
B	B. Stock, Storage & Insurance @ 3% of A				5,058.03
C	Sub Total (C=A+B)				173,658.86
D	T&P @ 2% of C				1259.94
E	Contingency @ 3% of C				5,209.77
F	Transportation @ 7.5% of C				13,024.41
	Erection Charges @ 20% on poles				11,115.76
G	Erection Charges @ 10%				11,808.00
H	Total				216,076.75
22	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1667 mm) = 0.42Cu.mtr(Per Pole)	Cum	3.36	6648.85	22,340.14
	Total Material + Services Cost (J+K)				238,416.88
B	11 KV PIN POINTS WITH WPB				
1	PSC Pole 10 Mtr. Long 330 KG	No	3	9230.00	27690.00
2	PSC Pole Clamp(GI)	No	3	113.60	340.80
3	11 KV V cross arm	No	3	1150.20	3450.60
4	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	3	213.00	639.00
5	Danger plate	No	3	113.60	340.80
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	0.9	106.50	95.85
7	GI barbed wire/Anticlimbing device	No	9	113.60	1022.40
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	3.61	106.50	384.47
9	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	9	284.00	2556.00
10	Earthing of Support (Coil Type)	No	3	235.72	707.16
11	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.79	106.50	84.14
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	4.35	110.76	481.81
13	55 sq. mm XLPE Insulated AAAC	Mtr.	1514.10	99.74	151016.33
14	Yellow colour paint for Background	Ltr	6	216.00	1296.00
15	Black colour paint for numbering	Ltr	3	312.40	937.20
16	Non metallic ties -11 KV 55 sq. mm CVRD AAAC	No	9	251.00	2259.00

17	Spike GI using 50x6 mm GI Flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	No	6	332.00	1992.00
A	A. Sub total				195,293.55
B	B. Stock, Storage & Insurance @ 3% of A				5,858.81
C	Sub Total (C=A+B)				201,152.36
D	T&P @ 2% of C				4,023.05
E	Contingency @ 3% of C				6,034.57
F	Transportation @ 7.5% of C				15,086.43
	Erection Charges @ 20% on poles				5,704.14
G	Erection Charges @ 10%				17,263.17
H	Total				249,263.71
18	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	1.26	6648.85	8377.55
	Total Material + Services Cost (J+K)				257,641.26
II	INSTALLATION OF 63 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	No.	1	4260.00	4260.00
3	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	No.	2	284.00	568.00
4	EYE hook for XLPE Aerial bunched Cable	No.	2	85.20	170.40
5	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No.	2	92.30	184.60
6	LT Cable raising Channel(GI) 75x40x4.8 mm GI Channel(GI) (1000 mm long)(7.14Kg./Mtr., 3 No's.) (Each 3x1.000x7.14= 21.42 Kg)	Kg	21.42	106.50	2281.23
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	MU channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4562.46
10	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
11	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
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	106.50	608.22
13	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
14	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
15	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1229.01
16	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	102.00	4369.68

17	50x50x6 mm GI Bracing angle ,4.5 kg/Mtr.,each angle(GI) Length 3.512 Mtr.,2 Nos. angle(GI) required	Kg	31.61	102.00	3224.22
18	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	154.81	106.50	16487.27
19	63 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	No	1	141308.92	141308.92
20	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 63 KVA S/S	No	1	26017.24	26017.24
21	55 SQ.MM. AAAC XLPE Covered Conductor	Mtr	50	99.74	4987.00
22	4 Cx 95 mm2 LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	Mtr	15	499.41	7491.15
23	4 Cx 95 mm2 LT XLPE Cable(Armoured) - From LT DB to Pole	Mtr	40	499.41	19976.40
24	11 KV AB switch (200 Amp, 3 pole)	Set	1	10437.00	10437.00
25	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8690.00	8690.00
26	Wedge connector for 55 sq. mm conductor	EA	6	100.00	600.00
27	Polycarbonate Bird Guard	No	6	29.40	176.40
28	11 KV Disc insulator polymer type 70 KN	No	3	1633.00	4899.00
29	11 KV H/W fitting polymer type	Pair	3	497.00	1491.00
30	11 KV LA (12KV,10 KA)station class-2	No	3	5041.00	15123.00
31	11 KV Pin Insulator polymer type	No	3	284.00	852.00
32	HT Stay Set (Complete)	Set	2	1491.00	2982.00
33	HT Stay Insulator	No.	2	177.50	355.00
34	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.60	143.20
35	7/10 SWG Stay Wire	KG	30	106.50	3195.00
36	GI Pipe for earthing 40mm dia 3mtr long	No	7	1491.00	10437.00
37	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2769.00
38	GI barbed wire/Anticlimbing device	No	6	113.60	681.60
39	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
40	Danger plate	Kg	2	113.60	227.20
41	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
42	Name Plate	No	1	113.60	113.60
	Structure Numbering and marking				
43	Yellow colour paint for Background	Ltr	2	216.00	432.00
44	Black colour paint for numbering	Ltr	1	312.40	312.40
A	A. Sub total				393,171.90
B	B. Stock, Storage & Insurance @ 3% of A				11,795.16
C	Sub Total (C=A+B)				404,967.05
D	T&P @ 2% of C				7,187.92

E	Contingency @ 3% of C				12,149.01
F	Transportation @ 7.5% of C				30,372.53
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				877.56
I	Erection Charges @ 10% for other materials				13,364.28
J	Total				479,986.60
45	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6648.85	5,983.97
46	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6648.85	1,502.64
47	PCC ratio 1:3:6(M-10) grade for DSS area (3.5x2.5x0.1)=0.525 Cu Mtr.	Cu. Mtr	0.525	5247.48	2,754.93
48	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
49	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
50	DTR Plinth	No.	1	28000.00	28,000.00
51	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	55	47.87	2,632.85
52	Supply and Erection of GI fencing with Gate	Sq. Mtr.	16	3682.44	58,919.04
53	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cu. Mtr	0.375	6648.85	2,493.32
54	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
55	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
					137,663.73
	Sub total Rs				617,650.33
III	Construction of LT Line using 4x50+1x50+1X16 sq. mm LT AB Cable- -0.34 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	10	4260.00	42,600.00
2	9 Mtr Long 300 KG PSC Pole(For stud stay)	No	1	4260.00	4,260.00
	LT Accessories with Eye Hook and Clamp				
3	Pole Clamp for Eye Hook for XLPE Areial bunched cable	Pair	22	284.00	6,248.00

4	Eye Hook for XLPE Aerial Bunched Cable	No	20	85.20	1,704.00
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	20	92.30	1,846.00
6	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	2	482.80	965.60
7	4 Cx50(P)+1Cx50(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	357	206.22	73,620.54
8	4 way Distribution Box with kit kat Fuse and Aluminium Bus bar	No.	2	3138.20	6,276.40
9	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	14	113.08	1,583.12
10	GI Pipe earthing(each 5th pole to Earth)	No	2	1491.00	2,982.00
11	Coil Earthing	No	8	235.72	1,885.76
12	No-8 GI wire (Dia-4.6mm)	Kg	2.60	106.50	276.90
13	Danger plate (LT)	No	10	113.60	1,136.00
14	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	3.01	106.5	320.57
15	GI barbed wire/Anticlimbing device 3 kg per support	Kg	30	113.6	3,408.00
16	Back clamp for Anticlimbing Device 25x3 mm , flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	12.04	106.5	1,282.26
17	GI Nut, Bolt & washers of different sizes	Kg	5	110.76	553.80
18	Yellow colour paint for Background	Ltr	20	216.00	4,320.00
19	Black paint	Ltr	10	312.40	3,124.00
A	TOTAL MATERIAL COST				158,392.95
B	Stock, Storage & Insurance @ 3% of A				4,751.79
C	Sub Total (C=A+B)				163,144.73
D	Contingency @3% of C				4,894.34
E	T & P 2% of C				3,189.80
F	Transportation @ 7.5% of C				12,235.86
G	Erection Charges for PSC Pole @ 20%				9,653.16
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				11,561.19
J	Sub Total Rs.				204,679.08

Civil and Services Works (As per Technical Specification)

20	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	5	2301.53	11,507.65
21	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	3.75	6648.85	24,933.19

22	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	3784.73	7,569.46
K	Total Services Cost				44,010.30
	Total Material + Services Cost (J+K)				248,689.38
	Dismantling Charges				
1	Dismantling of 10 Mtr. Long WPB Pole	No.	6	1380.92	8,285.52
2	Dismantling of Channel & angle	Kg	421	8.1	3,410.10
3	Dismantling of HW & Disc	No.	30	8.29	248.70
4	Dismantling of ACSR/AAAC 34/55 sq. mm AAAC	Mtr.	1470	6.44	9,466.80
5	Dismantling of existing 11/0.4kV, 33/0.4KV, Three Phase Distribution Transformer 25KVA including removal of HT/LT leads, earth connections and unloading by crane if required.	No.	1	1534.35	1,534.35
6	Dismantling of Stay set complete	No.	10	482.5	4,825.00
	Total Rs.				27,770.47
	Sub Total Rs.				1,390,168.33
	Cess @1%				13,901.68
	Total Estimated Cost				1,404,070.01
	Total Estimated Cost in Figures				1,404,070.00
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/-
Project Manager (Elect)

Sd/-
Dy. Manager (Elect)