

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 :- 01 AS PER IFB****NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK TO CATER POWER SUPPLY TO 6-E+6-F TYPE STAFF QUARTERS AT SATYABADI POLICE STATION IN THE DISTRICT OF PURI.****BID REF NO :- 16/PM/ELECT/OPHWC/2026-27****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	INSTALLATION OF 100 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36,804.27	73,608.54
2	9 Mtr. long 300 Kg. PSC Pole	No.	1	4,260.00	4,260.00
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	2,281.23
7	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	106.50	6,108.84
8	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.965	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	4,562.46
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	4,562.46
13	Cantilever suport channel 75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	106.50	1,232.21
14	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1,229.01

15	Double pole Belting Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	106.50	4,562.46
16	50X50X6 mm.GI Bracing Angle,4.5 Kg/Mtr.,3512 mm Long, 4.5KG/Mtr., 2 Nos.	Kg	31.61	106.50	3,366.47
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	154.8	106.50	16,487.27
18	100 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	No	1	193,901.46	193,901.46
19	LT Distribution Box with MCCB, Aluminium Busbar of 2 Bay with kit kat fuse for 100 KVA S/S	No	1	34,674.98	34,674.98
20	55 SQ.MM. AAAC XLPE Covered Conductor	Mtr	50	99.74	4,987.00
21	4 Cx 150 mm ² LT XLPE Cable(Armoured) - FOR 100 KVA Trf.	Mtr	15	805.08	12,076.20
22	1.1 kv 4 CORE 150 sq. mm XLPE Insulation armoured-aluminium UG cable from LTDB to Pole	Mtr	40	805.08	32,203.20
23	11 KV AB switch (200 Amp, 3 pole, 50 HZ)	Set	1	10,437.00	10,437.00
24	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8,690.00	8,690.00
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	1,633.00	4,899.00
28	11 KV H/W fitting polymer type	Pair	3	497.00	1,491.00
29	11 KV LA (12KV,10 KA)station class-2	No	3	5,041.00	15,123.00
30	11 KV Pin Insulator polymer type	No	3	284.00	852.00
31	HT Stay Set (Complete)	Set	2	1,491.00	2,982.00
32	HT Stay Insulator	No.	2	177.50	355.00
33	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.00	142.00
34	7/10 SWG Stay Wire	KG	30	106.50	3,195.00
35	GI Pipe for earthing 40mm dia 3mtr long	No	7	1,491.00	10,437.00
36	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2,769.00
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	2.407	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	0.602	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				467,005.39
B	B. Stock, Storage & Insurance @ 3% of A				14,010.16
C	Sub Total (C=A+B)				481,015.55
D	T&P @ 2% of C				8,355.68
E	Contingency @ 3% of C				14,430.47
F	Transportation @ 7.5% of C				36,076.17
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				13,776.77

H	Erection Charges @ 20% on PSC Poles				877.56
I	Erection Charges @ 10% for other materials				13,786.09
J	Total				568,318.29
44	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu.Mtr	0.9	6,648.85	5,983.97
45	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
46	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
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	2,301.53	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	3,784.73	26,493.11
49	DTR Plinth	No	1	28,000.00	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	3,682.44	58,919.04
52	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cu. Mtr	0.375	6,648.85	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 3.5/4 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
					141,318.64
				Sub total Rs	709,636.93
II	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	36,804.27	36,804.27

2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	45.89	106.50	4,887.07
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.57	106.50	1,126.00
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(4x9.56x0.306)	Kg	11.7	106.50	1,246.20
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	0.301	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	1.204	106.50	128.18
9	11 KV pin insulator polymer	Set	4	284.00	1,136.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	497.00	2,982.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1,633.00	9,798.00
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	Non metallic ties -11 KV 55 sq. mm AAAC	No	4	251.00	1,004.00
15	IPC for 55 sq. mm AAAC(For covered conductor)	No	6	550.00	3,300.00
16	Spike GI using 50x6 mm GI Flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	No	2	332.00	664.00
17	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
18	H.T. Stay set (Complete)	SET	2	1,491.00	2,982.00
19	H.T. Stay Insulator Type-C	EA	2	71.00	142.00
20	7/10 SWG Stay Wire 15kg /stay	KG	30	106.50	3,195.00
21	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	110.76	823.28
22	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	2	216.00	432.00
23	Black paint (GIS Numbering & Zebra stripping)	Ltr	0.5	312.40	156.20
A	A. Sub total				71,911.28
B	B. Stock, Storage & Insurance @ 3% of A				2,157.34
C	Sub Total (C=A+B)				74,068.62
D	T&P @ 2% of C				1,343.88
E	Contingency @ 3% of C				2,222.06
F	Transportation @ 7.5% of C				5,555.15
	Erection Charges @ 5% on poles				1,895.42
G	Erection Charges @ 10%				2,928.60
H	Total				88,013.72

24	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 excavation including excavation, 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	2,301.53	4,603.06
25	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	Cum	0.45	6,648.85	2,991.98
26	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	Cum	0.113	6,648.85	748.00
Total Material + Services Cost (J+K)					96,356.76
B	11 KV PIN POINT				
1	55 sq. mm AAAC XLPE Covered Conductor	Mtr.	46.35	99.74	4,622.95
A	A. Sub total				4,622.95
B	B. Stock, Storage & Insurance @ 3% of A				138.69
C	Sub Total (C=A+B)				4,761.64
D	T&P @ 2% of C				95.23
E	Contingency @ 3% of C				142.85
F	Transportation @ 7.5% of C				357.12
Erection Charges @ 5% on poles					
G	Erection Charges @ 10%				476.16
H	Total				5,833.01
III	Construction of LT Line using 4x70+1x70+1X16 sq. mm LT AB Cable- -0.4 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	12	4,260.00	51,120.00
2	LT stay set complete	Set	6	738.40	4,430.40
3	7/12 SWG GI stay wire, Grade-2	Kg	72	106.50	7,668.00
4	LT stay clamp	Pair	6	156.20	937.20
5	LT stay set Insulator	No	6	42.60	255.60
LT Accessories with Eye Hook and Clamp					
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	19	284.00	5,396.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	12	85.20	1,022.40
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	12	92.30	1,107.60
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	7	482.80	3,379.60
10	4 Cx70(P)+1Cx70(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	420	283.91	119,242.20
12	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	10	113.08	1,130.80
14	GI Pipe earthing(each 5th pole to Earth)	No	2	1,491.00	2,982.00

15	Coil Earthing	No	10	235.72	2,357.20
16	No-8 GI wire (Dia-4.6mm)	Kg	3.14	106.50	334.84
17	Danger plate (LT)	No	12	113.60	1,363.20
18	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	3.61	106.50	384.47
19	GI barbed wire/Anticlimbing device 3 kg per support	Kg	36	113.60	4,089.60
20	Back clamp for Anticlimbing Device 25x3 mm , flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	14.44	106.50	1,537.86
21	GI Nut, Bolt & washers of different sizes	Kg	6	110.76	664.56
22	Yellow colour paint for Background	Ltr	24	216.00	5,184.00
23	Black paint	Ltr	12	312.40	3,748.80
A	TOTAL MATERIAL COST				218,336.32
B	Stock, Storage & Insurance @ 3% of A				6,550.09
C	Sub Total (C=A+B)				224,886.41
D	Contingency @3% of C				6,746.59
E	T & P 2% of C				4,162.51
F	Transportation @ 7.5% of C				16,866.48
G	Erection Charges for PSC Pole @ 20%				10,530.72
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				15,547.14
J	Sub Total Rs.				278,739.85
Civil and Services Works (As per Technical Specification)					
24	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	6	2,301.53	13,809.18
25	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	4.5	6,648.85	29,919.83
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	3,784.73	7,569.46
K	Total Services Cost				51,298.47
	Total Material + Services Cost (J+K)				330,038.32
IV	Dismantling Charges				
1	Dismantling of LT AB Cable	Mtr.	60	23.02	1,381.20
2	Dismantling of 9/8 Mtr. Joist / PSC pole	No.	2	920.61	1,841.22
	Total Rs.				3,222.42

V	Supply and Laying of 1.1 KV LT U/G Line using 1.1 KV , 4 C x 35 Sq. mm XLPE Insulation armoured-Aluminium UG cable with accessories in Open Trench method-0.060 Km(With Spare)				
1	Supply of materials for 1.1 KV XLPE insulation armoured UG cable with accessories-Open trench (along with spare cable)				
a	Length of 1.1 KV, 4C, 35 sq. mm XLPE insulation armoured-Aluminium UG Cable(open trench)	Mtr.	60		
1.1	Supply of 1.1 KV ,4 core, 35 sq. mm XLPE insulation armoured - Aluminium UG Cable	Mtr	120	268.02	32,162.40
1.2	Supply of HDPE PE 80-PN8 pipe of 110mm diameter	Mtr	120	279.91	33,589.20
2	supply of 1.1 KV Multimeter Panel				
a	No. of 1.1 KV I/C -160 A & 10 Nos. of O/G 32 A	No	2		
2.1	Supply of 1.1 KV I/C -160 A & 10 Nos. of O/G 32 A	No	2	125,000.00	250,000.00
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				324,527.20
	Erection Portion				
1	Laying ,commissioning ,Testing of 1.1 KV , Aluminium, XLPE insulation armoured UG cable by open trench method				
1.1	Laying of 1.1 KV ,4 core 35 sq. mm XLPE insulation armoured-aluminium UG cable	Mtr	120	47.87	5,744.40
1.2	Laying of 110mm HDPE Pipe	Mtr	120	306.87	36,824.40
2	SITC of Gland /AL term				
2.1	Supply and erection of double compression flameproof type glanding for armoured cable 3.5/4 core ,16-35 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	4	368.24	1,472.96
					44,041.76
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 LT UG Cable Trench				
2.1	Earth work excavation of soil Trench Dimension(1.6 Mtr. Wx1.275 Mtr. D)	Cum	57.12	716.03	40,899.63

2.2	Earth work excavation of hard rock Trench Dimension(1.6 Mtr. Wx1.275 Mtr. D)	Cum	24.48	1,759.39	43,069.87
2.3	Back filling with excavated soil outside and above the trench	Cum	23.1	204.58	4,725.80
2.4	PCC(1:3:6) (M-10 Grade)below trench (width 1500 mm ,thickness 75 mm throughout)	Cum	4.5	5,247.48	23,613.66
2.5	Supply and Erection of material for RCC partition Slab 750 mmx100 mm(M-25 Grade)	Cum	3.9	7,483.54	29,185.81
2.6	Supply and Erection of material for RCC trench,150 mm thick(M-25 Grade)	Cum	18.6	7,483.54	139,193.84
2.6	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC trench(0.6523 Quint/cum	Kg	1213	111.50	135,280.50
2.7	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC slabs(0.678 Quint/cum)	Kg	264.4	111.50	29,482.83
2.8	Concreting and shuttering of Mass Concrete	M2	156	307.89	48,030.84
2.9	Structural steel work riveted Channel (GI-75x40x4.8 mm)GI Flat -75x6 mm	Kg	113.9	130.00	14,804.40
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.)				523,426.10
A	Sub Total (Supply Portion)				324,527.20
B	Stock, Storage & Insurance @ 3 % of A				9,735.82
C	Sub Total (A+B)				334,263.02
D	Contingency @ 3 % of C				10,027.89
E	Tools & Plants Charges @ 2% of C (considered for multimeter panel and earthing items)				5,207.92
F	Transportation @ 7.5% of C				25,069.73
G	Erection Charges @ 10% of earthing items and Multimeter Panel				26,039.59
H	Total (C+D+E+F+G)				400,608.14
I	Sub Total (Erection Portion + Civil Portion)				567,467.86
J	Total Cost (H+I)				968,076.00

	Sub Total Rs.	2,113,163.43
	Cess @1%	21,131.63
	Total Estimated Cost	2,134,295.07
	Total Estimated Cost in Figures	2,134,295.00
EXCESS <input type="checkbox"/> LESS <input type="checkbox"/> (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)