

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 :- 06 AS PER IFB****NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-F +4-E TYPE STAFF QUARTERS AT NIMAPADA 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	INSTALLATION OF 63 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73608.54
2	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
3	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	106.50	6108.84
4	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	106.50	422.25
5	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
6	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
7	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
8	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
9	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
10	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1229.01
11	Transformer Base GI Channel 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	106.50	6108.84
12	Transformer Base Support GI Channel 100 X 50 X 6 MM (515 mm long) (9.56Kg./Mtr, 2 No's) (Each 2x0.515x9.56= 9.85Kg)	Kg	9.85	106.50	1049.03
13	Transformer Belting Angle 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	27	106.50	2875.50

14	Transformer Belting Support Angle 50 X 50 X 6MM GI (580 mm long)(4.5Kg./Mtr,2 No's) (Each 2x0.580x4.5= Kg)	Kg	5.22	106.50	555.93
15	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	106.50	958.50
16	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
17	63 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	No	1	141308.92	141308.92
18	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
19	55 SQ.MM. AAAC XLPE Covered Conductor	Mtr	50	99.74	4987.00
20	4 Cx 95 mm ² LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	Mtr	15	499.41	7491.15
21	4 Cx 95 mm ² LT XLPE Cable(Armoured) - From LT DB to Pole	Mtr	40	499.41	19976.40
22	11 KV AB switch (200 Amp, 3 pole)	Set	1	10437.00	10437.00
23	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8690.00	8690.00
24	Wedge connector for 55 sq. mm conductor	EA	6	100.00	600.00
25	Polycarbonate Bird Guard	No	6	29.40	176.40
26	11 KV Disc insulator polymer type 70 KN	No	3	1633.00	4899.00
27	11 KV H/W fitting polymer type	Pair	3	497.00	1491.00
28	11 KV LA (12KV,10 KA)station class-2	No	3	5041.00	15123.00
29	11 KV Pin Insulator polymer type	No	3	284.00	852.00
30	HT Stay Set (Complete)	Set	2	1491.00	2982.00
31	HT Stay Insulator	No.	2	177.50	355.00
32	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.60	143.20
33	7/10 SWG Stay Wire	KG	30	106.50	3195.00
34	GI Pipe for earthing 40mm dia 3mtr long	No	7	1491.00	10437.00
35	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2769.00
36	GI barbed wire/Anticlimbing device	No	6	113.60	681.60
37	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
38	Danger plate	Kg	2	113.60	227.20
39	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
40	Name Plate	No	1	113.60	113.60
	Structure Numbering and marking				
41	Yellow colour paint for Background	Ltr	2	216.00	432.00
42	Black colour paint for numbering	Ltr	1	312.40	312.40
A				A. Sub total	387,380.33
B				B. Stock, Storage & Insurance @ 3% of A	11,621.41

C	Sub Total (C=A+B)				399,001.74
D	T&P @ 2% of C				7,061.53
E	Contingency @ 3% of C				11,970.05
F	Transportation @ 7.5% of C				29,925.13
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				13,172.00
J	Total				472,198.70
43	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6648.85	5,983.97
44	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6648.85	1,502.64
45	PCC ratio 1:3:6(M-10) grade for DSS area (3.5x2.5x0.1)=0.875 Cu Mtr.	Cu. Mtr	1.5	5247.48	7,871.22
46	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
47	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
48	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	55	47.87	2,632.85
49	Supply and Erection of GI fencing with Gate	Sq. Mtr.	16	3682.44	58,919.04
50	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
51	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
					112,286.71
	Sub total Rs				584,485.41
II	Construction of LT Line using 4x50+1x50+1X16 sq. mm LT AB Cable- -0.250 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	8	4260.00	34,080.00
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	14	284.00	3,976.00
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	2	482.80	965.60
10	4 Cx50(P)+1Cx50(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	273	206.22	56,298.06
11	Insulated Piercing connector Type-A-main 50 to 150 sq. mm & Tap-50 to 150 sq. mm	Nos.	6	113.08	678.48
12	GI Pipe for earthing (each 5th pole to earth)	EA	2	1491.00	2,982.00
13	Coil Earthing	No	6	235.72	1,414.32
14	No-8 GI wire (Dia-4.6mm)	Kg	2.1	106.50	223.65
15	Danger plate (LT)	No	8	113.60	908.80
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	2.41	106.5	256.67
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	24	113.6	2726.40
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	9.63	106.5	1025.60
19	GI Nut, Bolt & washers of different sizes	Kg	4	110.76	443.04
20	Yellow colour paint for Background	Ltr	16	216.00	3,456.00
21	Black paint	Ltr	8	312.40	2,499.20
A	TOTAL MATERIAL COST				127,355.01
B	Stock, Storage & Insurance @ 3% of A				3,820.65
C	Sub Total (C=A+B)				131,175.66
D	Contingency @3% of C				3,935.27
E	T & P 2% of C				2,288.27
F	Transportation @ 7.5% of C				9,838.17
G	Erection Charges for PSC Pole @ 20%				7,020.48
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				7,931.19
J	Sub Total Rs.				162,189.04
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	6	2301.53	13809.18
22	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cu.Mtr	3	6648.85	19,946.55

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	2	3784.73	7,569.46
	Total Services Cost				41,325.19
	Total Material + Services Cost (J+K)				203,514.23
III	CONSTRUCTION OF 11 KV LINE .				
A	11 KV CUT POINT WITH 90 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	1221.56
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	2.925	106.50	311.51
4	11 KV pin insulator polymer	Set	2	284.00	568.00
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	3	100.00	300.00
8	Polycarbonate Bird Guard	No	6	29.40	176.40
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				9,445.55
B	B. Stock, Storage & Insurance @ 3% of A				283.37
C	Sub Total (C=A+B)				9,728.91
D	T&P @ 2% of C				194.58
E	Contingency @ 3% of C				291.87
F	Transportation @ 7.5% of C				729.67
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				972.89
H	Total				11,917.92
B	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	Contingency @ 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	11 KV LINE PROTECTING GUARDING FOR ROAD CROSSING-1 SPAN				
1	Guarding Channel 75X40X4.8 mm, 7.14 KG/Mtr., each channel length 2.2 mtr., 4 no's channel required =(4x7.14x1.2)	Kg	62.832	106.50	6691.61
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	30.72	106.50	3271.68
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	6.55	106.50	697.58
4	Eye Bolt(236 mm,16 mm dia,1.577 Kg/mtr.)	No	4	193.12	772.48
5	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	2	1491.00	2982.00
6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	50.504	106.50	5378.68
A	TOTAL MATERIAL COST (FOR-2020-21)				19,794.02
B	Stock, Storage & Insurance @ 3% of A				593.82
C	Sub Total (C=A+B)				20,387.84
D	Contingency @3% of C				611.64
E	T & P 2% of C				346.33
F	Transportation @ 7.5% of C				1,529.09
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,731.64
J	Sub Total Rs.				24,606.53
PART-III	Supply and Laying of 1.1 KV LT U/G Line using 1.1 KV , 4 C x 95 Sq. mm XLPE Insulation armoured-Aluminium UG cable with accessories in Open Trench method-0.070 Km(With Spare)				
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.	70		
1.1	Supply of 1.1 KV ,4 core, 95 sq. mm XLPE insulation armoured - Aluminium UG Cable	Mtr	140	499.41	69,917.40
1.2	Supply of HDPE PE 80-PN8 pipe of 110mm diameter	Mtr	140	279.91	39,187.40
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 63 A	No	2	217000.00	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	1491.00	5,964.00
A	A. Sub total				551,880.40
	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 95 sq. mm XLPE insulation armoured-aluminium UG cable	Mtr	140	47.87	6,701.80
1.2	Laying of 110mm HDPE Pipe	Mtr	140	306.87	42,961.80
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
					51,734.98
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	92.82	716.03	66,461.90
2.2	Earth work excavation of hard rock Trench Dimension(1.6 Mtr. Wx1.275 Mtr. D)	Cum	39.78	1,759.39	69,988.53
2.3	Back filling with excavated soil outside and above the trench	Cum	37.54	204.58	7,679.93
2.4	PCC(1:3:6) (M-10 Grade)below trench (width 1500 mm ,thickness 75 mm throughout)	Cum	7.3125	5,247.48	38,372.20
2.5	Supply and Erection of material for RCC partition Slab 750 mmx100 mm(M-25 Grade)	Cum	6.3375	7,483.54	47,426.93
2.6	Supply and Erection of material for RCC trench,150 mm thick(M-25 Grade)	Cum	30.225	7,483.54	226,190.00
2.6	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC trench(0.6523 Quint/cum	Kg	1971.58	111.50	219,831.17
2.7	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC slabs(0.678 Quint/cum)	Kg	429.683	111.50	47,909.65
2.8	Concreting and shuttering of Mass Concrete	M2	253.5	307.89	78,050.12
2.9	Structural steel work riveted Channel (GI-75x40x4.8 mm)GI Flat -75x6 mm	Kg	185.055	130.00	24,057.15
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.)	841,106.51
A	Sub Total (Supply Portion)	551,880.40
B	Stock, Storage & Insurance @ 3 % of A	16,556.41
C	Sub Total (A+B)	568,436.81
D	Contingency @ 3 % of C	17,053.10
E	Tools & Plants Charges @ 2% of C (considered for multimeter panel and earthing items)	8,998.32
F	Transportation @ 7.5% of C	42,632.76
G	Erection Charges @ 10% of earthing items and Multimeter Panel	44,991.59
H	Total (C+D+E+F+G)	682,112.59
I	Sub Total (Erection Portion + Civil Portion)	892,841.49
J	Total Cost (H+I)	1,574,954.08
	Sub Total Rs.	2,406,121.74
	Cess @1%	24,061.22
	Total Estimated Cost	2,430,182.96
	Total Estimated Cost in Figures	2,430,183.00
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)