

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 /www.ophwc.nic.in****PRICE BID FOR THE WORK UNDER SL. NO :- 03 AS PER IFB****NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO GOPALPRASAD POLICE STATION IN THE DISTRICT OF ANGUL.****BID REF NO :- 15/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	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	45.888	106.50	4,887.07
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	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 =(42x9.56x0.306)	Kg	11.70144	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	0.3009	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	1,136.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	497.00	4,473.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1633.00	14,697.00
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	9	550.00	4,950.00

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	1	177.50	177.50
18	H.T. Stay set (Complete)	SET	1	1491.00	1,491.00
19	H.T. Stay Insulator Type-C	EA	1	71.00	71.00
20	7/10 SWG Stay Wire 15kg /stay	KG	15	106.50	1,597.50
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				76,614.28
B	B. Stock, Storage & Insurance @ 3% of A				2,298.43
C	Sub Total (C=A+B)				78,912.71
D	T&P @ 2% of C				1,509.51
E	Contingency @ 3% of C				2,367.38
F	Transportation @ 7.5% of C				5,918.45
	Erection Charges @ 5% on poles				1,894.92
G	Erection Charges @ 10%				3,756.72
H	Total				94,359.69
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 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	1	2301.53	2,301.53
25	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	Cum	0.45	6648.85	2,991.98
26	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX2200mm) = 0.55Cu.mtr(Per Pole)	Cum	0.1125	6648.85	748.00
	Total Material + Services Cost (J+K)				100,401.20
C	11 KV PIN POINTS WITH WPB				
1	55 sq. mm AAAC XLPE covered conductor	Mtr.	92.70	99.74	9,245.90
A	A. Sub total				9,245.90

B	B. Stock, Storage & Insurance @ 3% of A				277.38
C	Sub Total (C=A+B)				9,523.27
D	T&P @ 2% of C				190.47
E	Contingency @ 3% of C				285.70
F	Transportation @ 7.5% of C				714.25
		Erection Charges @ 5% on poles			
G	Erection Charges @ 10%				952.33
H	Total				11,666.01
II	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	81.396	106.50	8,668.67
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	23.04	106.50	2,453.76
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	4.91	106.50	523.18
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	2,982.00
6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	50.504	106.50	5,378.68
A	TOTAL MATERIAL COST (FOR-2020-21)				20,778.77
B	Stock, Storage & Insurance @ 3% of A				623.36
C	Sub Total (C=A+B)				21,402.13
D	Contingency @3% of C				642.06
E	T & P 2% of C				366.61
F	Transportation @ 7.5% of C				1,605.16
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,833.07
J	Sub Total Rs.				25,849.04
7	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 Rs.				33,418.50
III	INSTALLATION OF 63 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73,608.54
2	9 Mtr Long 300 KG PSC Pole(For raising of LT ABC)	No	1	4260.00	4,260.00
3	Pole Clamp for Eye Hook for XLPE Areial bunched cable	Pair	2	284.00	568.00
4	Eye Hook for XLPE Areial Bunched Cable	No	2	85.20	170.40

5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	92.30	184.60
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	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	3.9648	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 channel75x40x4.8 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	Transformer Base GI Channel(GI) 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	6,108.84
16	Transformer Base Support GI Channel(GI) 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	1,049.03
17	Transformer Belting Angle(GI) 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	27	106.50	2,875.50
18	Transformer Belting Support Angle(GI) 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
19	LTDB Mounting Angle(GI) 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
20	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	16,487.27
21	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II,Ammendment-4	No	1	141308.92	141,308.92
22	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	26017.24	26,017.24
23	55 sq. mm AAAC XLPE covered conductor	Mtr	50	99.74	4,987.00
24	1Cx95 sq. mm LT XLPE cable(Armoured)	Mtr	15	499.41	7,491.15
25	4Cx95 sq. mm LT XLPE cable(Armoured)from LTDB to Pole	Mtr	40	499.41	19,976.40
26	11 KV AB switch (200 Amp, 3 pole)	Set	1	10437.00	10,437.00
27	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8690.00	8,690.00
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	4,899.00
31	11 KV H/W fitting polymer type	Pair	3	497.00	1,491.00
32	11 KV LA (12KV,10 KA)station class-2	No	3	5041.00	15,123.00
33	11 KV Pin Insulator polymer type	No	3	284.00	852.00
34	HT Stay Set (Complete)	Set	2	1491.00	2,982.00
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	3,195.00
38	GI Pipe for earthing 40mm dia 3mtr long	No	7	1491.00	10,437.00
39	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2,769.00
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				392,563.33
B	B. Stock, Storage & Insurance @ 3% of A				11,776.90
C	Sub Total (C=A+B)				404,340.23
D	T&P @ 2% of C				7,168.47
E	Contingency @ 3% of C				12,130.21
F	Transportation @ 7.5% of C				30,325.52
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				13,275.55
J	Total				479,185.79
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	1.5	5247.48	7,871.22
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	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	55	47.87	2,632.85
53	Supply and Erection of GI fencing with Gate	Sq. Mtr.	16	3682.44	58,919.04
54	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.45 Cu. Mtr.	Cum	0.375	6648.85	2,493.32
55	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
56	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 3.5 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
					114,780.02
	Sub total Rs				593,965.81
IV	Construction of LT Line using 4x35+1x35+1X16 sq. mm LT AB Cable- -0.12 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	4	4260.00	17,040.00
2	LT stay set complete	Set	2	738.40	1,476.80
3	7/12 SWG GI stay wire, Grade-2	Kg	24	106.50	2,556.00
4	LT stay clamp	Pair	2	156.20	312.40
5	LT stay set Insulator	No	2	42.60	85.20
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	6	284.00	1,704.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	6	85.20	511.20
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	4	92.30	369.20
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	2	482.80	965.60
10	4 Cx35(P)+1Cx35(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	126	152.36	19,197.36
11	Insulated Piercing connector ,Type-B main 25-150 sq. mm & Tap-6 to 35 sq. mm	No	4	62.13	248.52
12	Coil Earthing	No	4	235.72	942.88
13	No-8 GI wire (Dia-4.6mm)	Kg	1	106.50	111.83
14	Danger plate (LT)	No	4	113.60	454.40
15	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	1.2	106.5	127.80
16	GI barbed wire/Anticlimbing device 3 kg per support	Kg	12	113.6	1,363.20

17	Back clamp for Anticlimbing Device 25x3 mm , flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	4.81	106.5	512.27
18	GI Nut, Bolt & washers of different sizes	Kg	2	110.76	221.52
19	Yellow colour paint for Background	Ltr	8	216.00	1,728.00
20	Black paint	Ltr	4	312.40	1,249.60
A	TOTAL MATERIAL COST				51,177.77
B	Stock, Storage & Insurance @ 3% of A				1,535.33
C	Sub Total (C=A+B)				52,713.10
D	Contingency @3% of C				1,581.39
E	T & P 2% of C				963.01
F	Transportation @ 7.5% of C				3,953.48
G	Erection Charges for PSC Pole @ 20%				3,510.24
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				3,059.92
J	Sub Total Rs.				65,781.15
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	2	2301.53	4,603.06
22	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	1.5	6648.85	9,973.28
K	Total Services Cost				14,576.34
	Total Material + Services Cost (J+K)				80,357.48
	Sub Total Rs.				819,809.00
	Cess @1%				8,198.09
	Total Estimated Cost				828,007.09
	Total Estimated Cost in Figures				828,007.00
EXCESS	☐ LESS ☐ (Please Tick)	_____ %			
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)