

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 :- 09 AS PER IFB****NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO FIRE STATION BUILDING AND 12-F TYPE STAFF QUARTERS AT BANTALA IN THE DISTRICT OF ANGUL.****BID REF NO :- 69/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	WPB(GI) 160x152 mm (11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73608.54
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	45.9	106.50	4888.35
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.6	106.50	1128.90
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	11.7	106.50	1246.05
5	Danger plate	No	2	113.60	227.20
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	0.6	106.50	63.90
7	GI barbed wire/Anticlimbing device	No	6	113.60	681.60
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	2.41	106.50	256.67
9	11 KV pin insulator polymer	Set	6	284.00	1704.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	12	497.00	5964.00
11	Disc insulator (B&S) 70 KN polymer	No.	12	1633.00	19596.00
12	Earthing of Support (Coil Type)	No	2	235.72	471.44
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.524	106.50	55.81
14	Non metallic ties -11 KV 55 sq. mm AAAC	No	6	251.00	1506.00
15	IPC for 55 sq. mm AAAC(For covered conductor)	No	12	550.00	6600.00
16	Spike GI using 50x6 mm GI Flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	4	332.00	1328.00
17	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.1	110.76	786.40
18	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	4	216.00	864.00

19	Black paint (GIS Numbering & Zebra stripping)	Ltr	1	312.40	312.40
A	A. Sub total				121,289.25
B	B. Stock, Storage & Insurance @ 3% of A				3,638.68
C	Sub Total (C=A+B)				124,927.92
D	T&P @ 2% of C				2,498.56
E	Contingency @ 3% of C				3,747.84
F	Transportation @ 7.5% of C				9,369.59
	Erection Charges @ 5% on poles				3,790.84
G	Erection Charges @ 10%				4,911.11
H	Total				149,245.86
20	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6648.85	5983.97
21	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6648.85	1495.99
	Total Material + Services Cost (J+K)				156,725.82
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	36804.27
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	45.9	106.50	4888.35
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.6	106.50	1128.90
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	11.7	106.50	1246.05
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	1136.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	497.00	2982.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1633.00	9798.00
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	1004.00
15	IPC for 55 sq. mm AAAC(For covered conductor)	No	6	550.00	3300.00
16	Spike GI using 50x6 mm GI Flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	2	332.00	664.00
17	HT Stay Set (Complete)	Set	2	1491.00	2982.00
18	HT Stay Insulator	No.	2	177.50	355.00
19	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.60	143.20
20	7/10 SWG Stay Wire	KG	30	106.50	3195.00
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				71,916.50
B	B. Stock, Storage & Insurance @ 3% of A				2,157.50
C	Sub Total (C=A+B)				74,074.00
D	T&P @ 2% of C				1,343.97
E	Contingency @ 3% of C				2,222.22
F	Transportation @ 7.5% of C				5,555.55
	Erection Charges @ 5% on poles				1,895.42
G	Erection Charges @ 10%				2,929.01
H	Total				88,020.17
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	2301.53	4,603.06
25	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6648.85	2991.98
26	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.1125	6648.85	748.00
	Total Material + Services Cost (J+K)				96,363.20
C	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	7	36804.27	257629.89
2	11 KV V cross arm GI	No	7	1150.20	8051.40
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	7	213.00	1491.00
4	Danger plate	No	7	113.60	795.20
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	2.11	106.50	224.72
6	GI barbed wire/Anticlimbing device	No	21	113.60	2385.60
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	8.43	106.50	897.80
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	21	284.00	5964.00
9	Earthing of Support (Coil Type)	No	7	235.72	1650.04
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.83	106.50	194.90
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	10.15	110.76	1124.21
12	55 SQ.MM. AAAC XLPE Covered Conductor	Mtr.	1266.9	99.74	126360.61
13	Black colour paint for numbering	Ltr	7	312.40	2186.80
14	Yellow colour paint for Background	Ltr	14	216.00	3024.00
15	Non metallic ties -11 KV 55 sq. mm CVRD AAAC	No	21	251.00	5271.00
16	Spike GI using 50x6 mm GI Flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	14	332.00	4648.00

	UG CABLE OVERHEAD LINE				
17	Heat Shrinkable jointing kit for 3Cx50 sq. mm 11 KV XLPE Cable(Out Door type)	No.	4	15547.58	62190.32
18	3Cx50 sq. mm 11 KV XLPE Cable(Armoured),A2XFY	Mtr.	40	576.52	23060.80
A	A. Sub total				507,150.28
B	B. Stock, Storage & Insurance @ 3% of A				15,214.51
C	Sub Total (C=A+B)				522,364.78
D	T&P @ 2% of C				10,447.30
E	Contingency @ 3% of C				15,670.94
F	Transportation @ 7.5% of C				39,177.36
	Erection Charges @ 5% on poles				13,267.93
G	Erection Charges @ 10%				25,700.61
H	Total				626,628.92
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	3.15	6648.85	20943.88
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.7875	6648.85	5235.97
	Total Material + Services Cost (J+K)				652,808.77
II	Construction of LT Line using 4x50+1x50+1X16 sq. mm LT AB Cable- -0.35 Km.				
1	9 Mtr Long 116x100 mm RS Joist Pole(23 Kg/Mtr.)	No	11	19106.10	210,167.10
2	LT stay set complete	Set	4	738.40	2,953.60
3	7/12 SWG GI stay wire, Grade-2	Kg	48	106.50	5,112.00
4	LT stay clamp	Pair	4	156.20	624.80
5	LT stay set Insulator	No	4	42.60	170.40
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	13	284.00	3,692.00
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	6	92.30	553.80
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	7	482.80	3,379.60
10	4 Cx50(P)+1Cx50(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	367.5	206.22	75,785.85
11	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No	13	113.08	1,470.04
12	GI Pipe for earthing (each 5th pole to earth)	EA	2	1491.00	2,982.00
13	Coil Earthing	No	9	235.72	2,121.48
14	No-8 GI wire (Dia-4.6mm)	Kg	2.9	106.50	308.85
15	Danger plate (LT)	No	11	113.60	1,249.60
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	3.31	106.5	352.52
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	33	113.6	3748.80
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	13.24	106.5	1410.06
19	GI Nut, Bolt & washers of different sizes	Kg	5.5	110.76	609.18
20	Yellow colour paint for Background	Ltr	22	216.00	4,752.00
21	Black paint	Ltr	11	312.40	3,436.40
A	TOTAL MATERIAL COST				325,391.28

B	Stock, Storage & Insurance @ 3% of A				9,761.74
C	Sub Total (C=A+B)				335,153.01
D	Contingency @3% of C				10,054.59
E	T & P 2% of C				6,458.98
F	Transportation @ 7.5% of C				25,136.48
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of Joist Poles @ 5%				10,823.61
I	Erection Charges of other @ 10%				10,648.37
J	Sub Total Rs.				398,275.04
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	4	2301.53	9206.12
23	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cu.Mtr	4.95	6648.85	32,911.81
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	1.2375	6648.85	8227.95
25	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				57,915.34
	Total Material + Services Cost (J+K)				456,190.38
III	INSTALLATION OF 63 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73608.54
2	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	106.50	6108.84
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	106.50	422.25
	MU channel(GI) 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4562.46
4	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
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	4562.46
8	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	106.50	1232.21
9	Cantilever support angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1229.01

10	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	6108.84
11	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	1049.03
10	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	2875.50
11	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
	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
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	16488.33
13	100 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	No	1	193901.46	193901.46
14	LT Distribution Box with MCCB, Aluminium Busbar of 2 Bay with kit kat fuse for 100 KVA S/S	No	1	34674.98	34674.98
15	55 SQ.MM. AAAC XLPE Covered Conductor	Mtr	50	99.74	4987.00
16	4 Cx 150 mm2 LT XLPE Cable(Armoured) - FOR 100 KVA TFR.	Mtr	15	805.08	12076.20
17	1.1 KV 4 Cx 150 mm2 LT XLPE insulation (Armoured) - Aluminium UG cable	Mtr	40	805.08	32203.20
18	11 KV AB switch (200 Amp, 3 pole)	Set	1	10437.00	10437.00
19	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8690.00	8690.00
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	1633.00	4899.00
23	11 KV H/W fitting polymer type	Pair	3	497.00	1491.00
24	11 KV LA (12KV,10 KA)station class-2	No	3	5041.00	15123.00
25	11 KV Pin Insulator polymer type	No	3	284.00	852.00
26	HT Stay Set (Complete)	Set	2	1491.00	2982.00
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	3195.00
30	GI Pipe for earthing 40mm dia 3mtr long	No	7	1491.00	10437.00
31	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2769.00
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				467,724.76
B	B. Stock, Storage & Insurance @ 3% of A				14,031.74
C	Sub Total (C=A+B)				481,756.50
D	T&P @ 2% of C				8,370.46
E	Contingency @ 3% of C				14,452.69
F	Transportation @ 7.5% of C				36,131.74
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				
I	Erection Charges @ 10% for other materials				14,298.80
J	Total				568,786.96
39	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6648.85	5,983.97
40	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6648.85	1,502.64
41	PCC ratio 1:3:6(M-10) grade for DSS area (3.5x2.5x0.1)=1.5 Cu Mtr.	Cu. Mtr	1.5	5247.48	7,871.22
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	2301.53	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	3784.73	26,493.11
45	Laying of 4Cx150 sq.mm LT XLPE cable	Mtr.	55	73.65	4,050.75
46	Supply and Erection of GI fencing with Gate	Sq. Mtr.	16	3682.44	58,919.04
39	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.375	6648.85	2,493.32
47	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
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	920.61	2,761.83

					118,434.93
	Sub total Rs				687,221.90
	Sub Total Rs.				2,049,310.07
	Cess @1%				20,493.10
	Total Estimated Cost				2,069,803.17
	Total Estimated Cost in Figures				2,069,803.00
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)