

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 :- 01 AS PER IFB****NAME OF THE WORK :-EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO ACADEMIC BUILDING AT P.G CAMPUS OF MADHUSUDAN LAW UNIVERSITY, STATION BAZAR, CUTTACK.****BID REF NO.- 07/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 500 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
2	9 Mtr Long 300 KG PSC Pole(For raising of LT ABC)	No	1	3900.00	3900.00
3	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	2	260.00	520.00
4	Eye Hook for XLPE Aerial Bunched Cable	No	2	78.00	156.00
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	84.50	169.00
6	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
7	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
8	Double Pole Belting Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 3.0 Mtr., 2 no's channel required =(7.14x3x2)	Kg	42.84	76.00	3255.84
9	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr., 2 nos angle required = (4.5x3.512x2)	Kg	31.608	76.00	2402.21
10	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	76.00	3255.84
11	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84

12	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	76.00	508.44
13	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	76.00	434.04
14	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
15	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	76.00	879.32
16	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
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	154.81	97.50	15093.98
18	500 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	1162260.00	1162260.00
19	LT Distrubution Box with MCCB, Aluminim Busbar of 4 Bay with kit kat Fuse for 500 KVA S/S.	No	1	126149.00	126149.00
20	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
21	1C X400 sq. mm LT XLPE cable	Mtr	180	359.66	64738.80
22	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
23	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
24	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
25	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
26	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
27	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
28	11 KV Pin Insulator polymer type	No	3	260.00	780.00
29	HT Stay Set (Complete)	Set	2	1365.00	2730.00
30	HT Stay Insulator	No.	2	65.00	130.00
31	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
32	7/10 SWG Stay Wire	KG	30	97.50	2925.00
33	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
34	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
35	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
36	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	97.50	234.70
37	Danger plate	Kg	2	104.00	208.00

38	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	97.50	58.68
39	Name Plate	No	1	104.00	104.00
	Structure Numbering and marking				
40	Yellow colour paint for Background	Ltr	2	216.00	432.00
41	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				1,513,530.38
B	B. Stock, Storage & Insurance @ 3% of A				45,405.91
C	Sub Total (C=A+B)				1,558,936.30
D	T&P @ 2% of C				29,883.96
E	Contingency @ 3% of C				46,768.09
F	Transportation @ 7.5% of C				116,920.22
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				62,587.64
H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				22,035.11
J	Total				1,837,934.72
42	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
43	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
44	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	2250.00	4,500.00
45	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	3700.00	25,900.00
46	LT DB Plinth	No	1	3000.00	3,000.00
47	DTR Plinth	No	1	30360.00	30,360.00
48	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
49	Laying of 1Cx400 sq.mm LT XLPE cable	Mtr.	180	72.00	12,960.00

50	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.375	6500.00	2,437.50
					158,476.50
	Sub total Rs				1,996,411.22
II	Construction of LT Line using 4x95+1x95+1X16 sq. mm LT AB Cable- -0.165 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	5	3900.00	19,500.00
2	LT stay set complete	Set	3	676.00	2,028.00
3	7/12 SWG GI stay wire, Grade-2	Kg	36	97.50	3,510.00
4	LT stay clamp	Pair	3	143.00	429.00
5	LT stay set Insulator	No	3	39.00	117.00
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	9	260.00	2,340.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	4	78.00	312.00
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	4	84.50	338.00
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	5	442.00	2,210.00
10	4 Cx95(P)+1Cx95(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	173	368.64	63,774.72
11	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	3	113.08	373.05
12	Insulated Piercing connector ,Type-C main 16-95 sq. mm & Tap-1.5 to 16 sq. mm	No	8	60.00	480.00
13	Pipe Earthing	No	1	1365.00	1,365.00
14	Coil Earthing	No	4	215.80	863.20
15	No-8 GI wire (Dia-4.6mm)	Kg	1.31	97.50	127.73
16	Danger plate (LT)	No	5	104.00	520.00
17	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	1.5	97.5	146.25
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	15	104	1560.00
19	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	6.02	97.5	586.95
20	GI Nut, Bolt & washers of different sizes	Kg	2.5	101.40	253.50
21	Yellow colour paint for Background	Ltr	10	216.00	2,160.00

22	Black paint	Ltr	5	286.00	1,430.00
A	TOTAL MATERIAL COST				104,424.40
B	Stock, Storage & Insurance @ 3% of A				3,132.73
C	Sub Total (C=A+B)				107,557.13
D	Contingency @3% of C				3,226.71
E	T & P 2% of C				2,151.15
F	Transportation @ 7.5% of C				8,066.78
G	Erection Charges for PSC Pole @ 20%				4,017.00
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				7,980.00
J	Sub Total Rs.				132,998.78
Civil and Services Works (As per Technical Specification)					
23	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	3	2250	6750.00
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	1.875	6500.00	12,187.50
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	1	3700.00	3,700.00
K	Total Services Cost				22,637.50
	Total Material + Services Cost (J+K)				155,636.28
III	11 KV Line				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00

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	97.50	4474.28
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.57	97.50	1030.58
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	97.50	1140.75
5	Danger plate	No	1	104.00	104.00
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	0.3	97.50	29.25
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2	97.50	117.00
9	11 KV pin insulator polymer	Set	5	260.00	1300.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	455.00	4095.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1495.00	13455.00
12	Non metallic Ties 11 KV(For covered conductor)	No	5	251.00	1,255.00
13	IPC for 70 sq. mm AAA conductor(For covered conductor)	No	9	371.00	3,339.00
16	70 sq. mm AAAC XLPE Covered Conductor	Km	0.01545	185,000.00	2,858.07
18	Earthing of Support (Coil Type)	EA	1	215.80	215.80
19	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.26	97.50	25.35
20	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
21	HT Stay Set (Complete)	Set	2	1365.00	2730.00
22	HT Stay Insulator	No.	2	65.00	130.00
23	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
24	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.43	101.40	753.40
25	Yellow colour paint for Background	Ltr	2	216.00	432.00
26	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				70,850.47
B	B. Stock, Storage & Insurance @ 3% of A				2,125.51
C	Sub Total (C=A+B)				72,975.98
D	T&P @ 2% of C				1,333.75
E	Contingency @ 3% of C				2,189.28
F	Transportation @ 7.5% of C				5,473.20
	Erection Charges @ 5% on poles				1,527.54

G	Erection Charges @ 10%				3,613.67
H	Total				87,113.42
27	Fixing of 11 KV 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, including excavation, supply of 0.5 Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No	2	2250.00	4500.00
28	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2,925.00
29	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	Total Material + Services Cost (J+K)				95,269.67
IV	INSTALLATION OF 1 NO. 11 KV DP WITH AB SWITCH FOR HT METERING UNIT.				
1	WPB(GI) 160x152 mm (11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	Top Channel(GI) 100X50X6mm, 9.56 KG/Mtr., each Channel(GI) length 3 mtr., 2 no's Channel(GI) required =(2x9.56x3)	KG	57.36	97.50	5,592.60
3	Fish Plate(GI) 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	KG	3.965	97.50	386.59
4	AB switch Mounting Channel(GI) 75X40X4.8mm, 7.14KG/Mtr, each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	KG	42.84	97.50	4,176.90
5	HT MU Mounting Channel(GI) 100X50X6mm, 9.56KG/Mtr, each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(9.56x3x2)	KG	57.36	97.50	5592.60
6	Cantilever Support Channel(GI) 75x40x4.8 mm GI Channel(GI) (810 mm long,2 No's.) (7.14Kg./Mtr., 2 No's.) (Each 2x0.81x7.14)	KG	11.567	97.50	1127.78
7	Angle(GI) for Cantilever arrangement for HT MU 50 x 50 x 6 - 1282 mm.each 2 nos.(4.5 K.g. per mtr.)	KG	11.538	97.50	1124.96

8	MU and AB Switch Side Support Channel(GI) 100X50X6mm,9.56 KG/Mtr., each Channel(GI) length 0.35 mtr., 4 no's Channel(GI) required =(9.56x4x0.35)	KG	13.384	97.50	1304.94
9	Channel(GI) Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 0.8 Mtr., 1 no's Channel(GI) required =(7.14x0.8x1)	KG	5.712	97.50	556.92
10	Double Pole Belting Channel(GI) 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	KG	42.84	97.50	4176.90
11	50x50x6mm.GI Bracing Angle(GI), 4.5Kg./mtr., each Angle(GI) length 3.512 mtr., 2 nos Angle(GI) required =(4.5x3.512x2)	KG	31.608	97.50	3081.78
12	Danger Plate, 2 no's.	No	2	104.00	208.00
13	Back Clamp for danger Plate 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 2 no's = (2x0.59x0.510)	KG	0.6018	97.50	58.68
14	55mm ² ACSR - PVC Insulated for Jumpering	Mtr.	15	55.24	828.60
15	H.T. Stay clamp, 50x8 mm. Flat(GI), 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	EA	2	162.50	325.00
16	H.T. Stay set (Complete)	SET	2	1365.00	2730.00
17	H.T. Stay Insulator Type-C	EA	2	65.00	130.00
18	7/10 SWG Stay Wire 15kg /stay	KG	30	97.50	2925.00
19	Gi Pipe Earthing 40mm. 3 Mtr. Long	No	2	1365.00	2730.00
20	50x6mm Flat(GI) 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	48.38	97.50	4717.05
21	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	6	104.00	624.00
22	Back Clamp for anticlimbing device 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 8 no's = (8x0.59x0.510)	KG	2.407	97.50	234.68
23	Lightning Arrester(12KV,10KA) (Station Class,class-2)	No.	3	4615.00	13845.00
24	AB Switch (11KV,200A.3pole,50Hz)	SET	1	9555.00	9555.00
25	11 KV pin insulator polymer	EA	3	260.00	780.00
26	H W fitting(B&S) 70KN, 3Bolt	EA	6	455.00	2730.00
27	Disc insulator (B&S) 70 KN polymer	EA	6	1495.00	8970.00

28	Wedge connector for 55 sq. mm conductor	EA	6	146.20	877.20
29	Polycarbonate Bird Guard	EA	15	29.40	441.00
30	GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	KG	13.718	101.40	1391.01
31	Black Paint(GIS Numbering & Zebra Stripping)	L	1	286.00	286.00
32	Yellow Colour Paint(GIS Numbering & Zebra Stripping) for Background	L	2	216.00	432.00
A	A. Sub total				141,262.18
B	B. Stock, Storage & Insurance @ 3% of A				4,237.87
C	Sub Total (C=A+B)				145,500.04
D	T&P @ 2% of C				2,727.90
E	Contingency @ 3% of C				4,365.00
F	Transportation @ 7.5% of C				10,912.50
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				3,055.08
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				7,529.32
J	Total				174,089.85
33	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.	EA	2	2250.00	4,500.00
34	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45 Cu.mtr(Per Pole)	Cu. Mtr	0.9	6500	5,850.00
35	Couping ratio 1:1.5:3(M-20 Grade) (500mmX500mmX450 mm) = 0.1125 Cu.mtr(Per Pole)	Cu. Mtr	0.225	6500	1,462.50
36	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation ,	EA	2	3700	7,400.00
37	Supply and Erection of GI Fencing with Gate	M2	20	3600.00	72,000.00

					91,212.50
	Sub total Rs				265,302.35
	Sub Total Rs.				2,512,619.51
	Cess @ 1%				25,126.20
	Total Estimated Cost				2,537,745.71
	Total Estimated Cost in Figures				2,537,746.00
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/-
D.M (Elect)**

**Sd/-
Project Manager (Elect)**