

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 NEW BISWANATH PANDIT LIBRARY NEAR PURI-ANGUL BUS STAND, BADAMBADI, CUTTACK.****BID REF NO :- 28/PM/ELECT/OPHWC/2025-26**

NAME & ADDRESS OF THE FIRM	
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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 Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	36804.27	36804.27
2	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)-stud pole	No	1	36804.27	36804.27
3	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	4887.07
4	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	106.50	1126.00
5	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	1246.20
6	Danger plate	No.	1	113.60	113.60
7	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
8	GI barbed wire/Anticlimbing device	No	3	113.60	340.80
9	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
10	11 KV pin insulator polymer	Set	5	284.00	1420.00
11	H W fitting(B&S) 70KN, 3Bolt	No.	9	497.00	4473.00
12	Disc insulator (B&S) 70 KN polymer	No.	9	1633.00	14697.00
13	Earthing of Support (Coil Type)	No	1	235.72	235.72

14	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
15	Non metallic ties -11 KV 55 sq. mm AAAC	No	5	251.00	1255.00
16	IPC for 55 sq. mm AAAC(For covered conductor)	No	9	550.00	4950.00
17	Wedge connector for 55 sq. mm conductor	No	3	100.00	300.00
18	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	110.76	823.28
19	Yellow colour paint for Background	Ltr	2	216.00	432.00
20	Black colour paint for numbering	Ltr	0.5	312.40	156.20
A	A. Sub total				110,252.55
B	B. Stock, Storage & Insurance @ 3% of A				3,307.58
C	Sub Total (C=A+B)				113,560.13
D	T&P @ 2% of C				2,271.20
E	Contingency @ 3% of C				3,406.80
F	Transportation @ 7.5% of C				8,517.01
		Erection Charges @ 5% on poles			3,790.84
G	Erection Charges @ 10%				3,774.33
H	Total				135,320.31
21	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	2	2301.53	4,603.06
22	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	Cum	0.45	6648.85	2,991.98
23	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(for stud Pole)	Cum	0.45	6648.85	2,991.98
24	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	Cum	0.1125	6648.85	748.00
	Total Material + Services Cost (J+K)				146,655.33

B	11 KV PIN POINTS WITH WPB				
1	55 sq. mm AAAC XLPE covered conductor	Mtr.	278.10	99.74	27737.69
A	A. Sub total				27,737.69
B	B. Stock, Storage & Insurance @ 3% of A				832.13
C	Sub Total (C=A+B)				28,569.82
D	T&P @ 2% of C				571.40
E	Contingency @ 3% of C				857.09
F	Transportation @ 7.5% of C				2,142.74
		Erection Charges @ 5% on poles			
G	Erection Charges @ 10%				2,856.98
H	Total				34,998.04
II	INSTALLATION OF 1 NO. 11 KV DP WITH AB SWITCH AND LA FOR HT METERING UNIT.				
1	WPB(GI) 160x152 mm (11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73608.54
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	106.50	6,108.84
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	106.50	422.27
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	106.50	4,562.46
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	106.50	6108.84
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	106.50	1231.89
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	106.50	1228.80
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	106.50	1425.40

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	106.50	608.33
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	106.50	4562.46
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	106.50	3366.25
12	Danger Plate, 2 no's.	No	2	113.60	227.20
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	106.50	64.09
14	55 sq. mm AAAC XLPE covered conductor	Mtr.	15	99.74	1496.10
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	177.50	355.00
16	H.T. Stay set (Complete)	SET	2	1491.00	2982.00
17	H.T. Stay Insulator Type-C	EA	2	71.00	142.00
18	7/10 SWG Stay Wire 15kg /stay	KG	30	106.50	3195.00
19	Gi Pipe Earthing 40mm. 3 Mtr. Long	No	2	1491.00	2982.00
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	106.50	5152.47
21	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	6	113.60	681.60
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	106.50	256.35
23	Lightning Arrester(12KV,10KA) (Station Class,class-2)	No.	3	5041.00	15123.00
24	AB Switch (11KV,200A.3pole,50Hz)	SET	1	10437.00	10437.00
25	11 KV pin insulator polymer	EA	3	284.00	852.00
26	H W fitting(B&S) 70KN, 3Bolt	EA	6	497.00	2982.00
27	Disc insulator (B&S) 70 KN polymer	EA	6	1633.00	9798.00
28	IPC for 55 sq. mm AAAC(For covered conductor)	EA	6	550.00	3300.00
29	GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	KG	13.718	110.76	1519.41
30	Polycarbonate Bird Guard	EA	9	29.40	264.60
31	Black Paint(GIS Numbering & Zebra Stripping)	L	1	312.40	312.40
32	Yellow Colour Paint(GIS Numbering & Zebra Stripping) for Background	L	2	216.00	432.00
A	A. Sub total				165,788.28
B	B. Stock, Storage & Insurance @ 3% of A				4,973.65

C	Sub Total (C=A+B)				170,761.93
D	T&P @ 2% of C				3,216.32
E	Contingency @ 3% of C				5,122.86
F	Transportation @ 7.5% of C				12,807.14
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				3,790.84
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				8,499.94
J	Total				204,199.04
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 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.	EA	2	2301.53	4,603.06
34	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45 Cu.mtr(Per Pole)	Cu. Mtr	0.9	6648.85	5,983.97
35	Couping ratio 1:1.5:3(M-20 Grade) (500mmX500mmX450 mm) = 0.1125 Cu.mtr(Per Pole)	Cu. Mtr	0.225	6648.85	1,495.99
36	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder ,	EA	2	3784.73	7,569.46
37	Supply and Erection of GI Fencing with Gate	M2	20	3682.44	73,648.80
	Sub Total Rs.				93,301.28
	Sub total Rs				297,500.31
III	INSTALLATION OF 500 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73608.54
2	9 Mtr Long 300 KG PSC Pole(For raising of LT ABC)	No	2	4260.00	8520.00
3	Pole Clamp for Eye Hook for XLPE Areial bunched cable	Pair	4	284.00	1,136.00
4	Eye Hook for XLPE Areial Bunched Cable	No	4	85.20	340.80
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	4	92.30	369.20
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	42.84	106.50	4,562.46

7	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	106.50	6108.84
8	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	106.50	422.25
9	MU channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4562.46
10	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
11	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
12	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
13	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
14	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
15	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1229.01
16	Double pole Belting Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	106.50	4562.46
17	50X50X6 mm.GI Bracing Angle,4.5 Kg/Mtr.,3512 mm Long, 4.5KG/Mtr., 2 Nos.	Kg	31.608	106.50	3366.25
18	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	16487.27
19	500 KVA , 11/0.4 KV (CU) Transformer with Tap changer BIS Energy Level-II Ammendment-4	No	1	1225143.46	1225143.46
20	LT Distrubution Box with MCCB, Aluminim Busbar of 4 Bay with kit kat Fuse for 500 KVA S/S.	No	1	102274.67	102274.67
21	55 sq. mm AAAC XLPE covered conductor	Mtr	50	99.74	4987.00
22	1Cx400 sq. mm LT XLPE cable	Mtr	180	363.08	65354.40
23	LT Cable Supporting Channel(GI) 100 X 50 X 6 MM GI Channel(GI) (2000 mm long)(9.56 Kg./Mtr., 2 No's.) (Each 2x2x9.56= 28.56 Kg)	Kg	38.24	106.50	4072.56
24	LT Cable Supproting Angle(GI), 50x50x6mm.GI 4.5Kg./mtr., each Angle(GI) length 2 mtr., 4 nos Angle(GI) required = (4.5x4x2)	Kg	36	106.50	3834.00
25	Supply of 1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	Mtr.	80	805.08	64406.40
26	11 KV AB switch (200 Amp, 3 pole)	Set	1	10437.00	10437.00
27	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8690.00	8690.00

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	4899.00
31	11 KV H/W fitting polymer type	Pair	3	497.00	1491.00
32	11 KV LA (12KV,10 KA)station class-2	No	3	5041.00	15123.00
33	11 KV Pin Insulator polymer type	No	3	284.00	852.00
34	HT Stay Set (Complete)	Set	2	1491.00	2982.00
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	3195.00
38	GI Pipe for earthing 40mm dia 3mtr long	No	7	1491.00	10437.00
39	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2769.00
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				1,671,262.72
B	B. Stock, Storage & Insurance @ 3% of A				50,137.88
C	Sub Total (C=A+B)				1,721,400.60
D	T&P @ 2% of C				31,402.44
E	Contingency @ 3% of C				51,642.02
F	Transportation @ 7.5% of C				129,105.04
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				66,885.73
H	Erection Charges @ 20% on PSC Poles				1,755.08
I	Erection Charges @ 10% for other materials				22,363.13
J	Total				2,024,554.04
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	1.225	5247.48	6,428.16

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	LT DB Plinth	No	1	6000.00	6,000.00
53	DTR Plinth upto 1000 KVA	No	1	32181.60	32,181.60
54	Laying of 4Cx150 sq.mm LT XLPE cable	Mtr.	80	73.65	5,892.00
55	Laying of 1Cx400 sq.mm LT XLPE cable	Mtr.	180	96.66	17,398.80
56	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3682.44	73,648.80
57	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.45 Cu. Mtr.	Cum	0.75	6648.85	4,986.64
58	Supply of AL Lugs suitable for 400 sq mm cable/conductor, Crimping with cable and Fixing/connecting include supply and erection of PVC Tape as per voltage requirement.	No	24	322.21	7,733.04
59	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	32	156.50	5,008.00
60	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 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	12	1227.48	14,729.76
61	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm 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	4	920.61	3,682.44
	Sub Total Rs.				216,272.02
	Sub total Rs				2,240,826.06

IV	DISMANTLING OF LINE AND POLE				
1	Dismantling of 9/11 Mtr. Joist/WPB Pole	No.	2	1380.92	2,761.84
2	Dismantling of ACSR 34/55 sq. mm	Mtr.	240	6.44	1,545.60
	Sub Total Rs.				4,307.44
	Total Rs.				2,724,287.18
	Cess @ 1%				27,242.87
	Total Estimated Cost				2751530.05
	Total Estimated Cost in Figures				2,751,530.00

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)