

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.**JANAPATH, BHOINAGAR, BHUBANESWAR - 22****[Electrical Division]****Ph: 0674-2541545, 2542921, Fax: 0674-2541543****E-mail :- pmelectricalophwc2021@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 300 SEATED BOYS HOSTEL AND 2 NOS. STAFF QTRS. AT TAPOVAN HIGH SCHOOL, KHANDAGIRI IN THE DIST. OF KHURDA.****BID REF NO :-31/PM/ELECT/OPHWC/2024-25****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 100 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
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	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
9	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
10	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
11	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
12	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
13	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
14	Transformer base GI channel 100x50x6 mm channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	57.36	76.00	4359.36
15	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	9.85	76.00	748.60
16	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00
17	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	76.00	396.72

18	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
19	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
20	100 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	152100.00	152100.00
21	LT Distrubution Box with MCCB, Aluminim Busbar of 2 Bay with kit kat Fuse for 100 KVA S/S.	No	1	31744.70	31744.70
22	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
23	4Cx150 sq. mm LT XLPE cable	Mtr	15	824.01	12360.15
24	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
25	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
26	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
27	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
28	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
29	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
30	11 KV Pin Insulator polymer type	No	3	260.00	780.00
31	HT Stay Set (Complete)	Set	2	1365.00	2730.00
32	HT Stay Insulator	No.	2	65.00	130.00
33	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
34	7/10 SWG Stay Wire	KG	30	97.50	2925.00
35	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
36	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
37	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
38	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
39	Danger plate	Kg	2	104.00	208.00
40	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
41	Name Plate	No	1	104.00	104.00
	Structure Numbering and marking				
42	Yellow colour paint for Background	Ltr	2	216.00	432.00
43	Black colour paint for numbering	Ltr	1	286.00	286.00
A				A. Sub total	362,202.33
B				B. Stock, Storage & Insurance @ 3% of A	10,866.07
C				Sub Total (C=A+B)	373,068.40
D				T&P @ 2% of C	6,884.05
E				Contingency @ 3% of C	11,192.05
F				Transportation @ 7.5% of C	27,980.13
G				Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%	10,888.23
H				Erection Charges @ 20% on PSC Poles	803.40
I				Erection Charges @ 10% for other materials	12,242.10
J				Total	443,058.36
45	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00

46	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
47	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
48	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
49	Laying of 4Cx150 sq.mm LT XLPE cable	Mtr.	15	72.00	1,080.00
50	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
51	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.375	6500.00	2,437.50
					95,236.50
				Sub total Rs	538,294.86
II	11 KV LINE PROTECTING GUARDING ON SINGLE POLE TO DOUBLE POLE 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)(For Single Pole)	Kg	81.396	76.00	6186.10
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	15.36	97.50	1497.60
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	3.275	97.50	319.31
4	Eye Bolt(236 mm,16 mm dia,1.577 Kg/mtr.)	No	4	78.00	312.00
5	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	2	1365.00	2730.00
6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	50.504	97.50	4924.14
A	TOTAL MATERIAL COST (FOR-2020-21)				15,969.15
B	Stock, Storage & Insurance @ 3% of A				479.07
C	Sub Total (C=A+B)				16,448.22
D	Contingency @3% of C				493.45
E	T & P 2% of C				272.73
F	Transportation @ 7.5% of C				1,233.62
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,363.63
J	Sub Total Rs.				19,811.65
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	3700.00	7,400.00
	Total Rs.				27,211.65
III	Construction of LT Line using 4C×95 mm² (P)+1C×95 mm²(M)+1CX16 mm²(Street Light) (LT AB Cable)- -0.36 Km.				
1	9 Mtr. long 300 Kg. PSC Pole	No	11	3900.00	42,900.00
2	LT Stay set Complete	Set	8	676.00	5,408.00
3	7/12 SWG GI stay wire, Grade -2	Kg	96	97.50	9,360.00

4	LT stay Clamp (1.40Kg/pair)	Pair	8	143.00	1,144.00
5	LT Stay insulator	No	8	39.00	312.00
	LT Accessories with Eye Hook and Clamp				
6	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	14	260.00	3,640.00
7	EYE hook for XLPE Aerial bunched Cable	No	14	78.00	1,092.00
8	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No	14	84.50	1,183.00
10	4C×70 mm ² (P)+1C×95 mm ² (M)+1CX16 mm ² (Street Light) (LT AB Cable)	Km	0.378	368640.00	139,345.92
12	Pipe Earthing (each 5th pole to earth)	No	2	1365.00	2,730.00
13	Coil Earthing	No	9	215.8	1942.20
14	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	2.88	97.5	280.80
15	Danger plate (LT)	Kg	11	104	1144.00
16	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	Kg	3.31	97.50	322.73
17	GI barbed wire anticlimbing device 3 Kg. Per support	Ltr	36	104.00	3,744.00
19	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	5.5	101.40	557.70
20	Black Paint	Ltr.	11	286.00	3,146.00
21	Yellow Colour Paint for Background	Ltr	22	216.00	4,752.00
A	TOTAL MATERIAL COST				223,004.35
B	Stock, Storage & Insurance @ 3% of A				6,690.13
C	Sub Total (C=A+B)				229,694.48
D	Contingency @3% of C				6,890.83
E	T & P 2% of C				4,593.89
F	Transportation @ 7.5% of C				17,227.09
G	Erection Charges for PSC Pole @ 20%				8,837.40
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				16,879.69
J	Sub Total Rs.				284,123.38
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	8	2250	18000.00
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	4.125	6500.00	26,812.50
24	Installation of earth pit ,charcoal,salt etc. including construction of earthing chamber(size2'x2') and RCC slab cover.	No	2	2407.00	4,814.00
K	Total Services Cost				49,626.50
	Total Material + Services Cost (J+K)				333,749.88
IV	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.02 KM .				

A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(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	45.888	76.00	3487.49
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	97.50	1030.85
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	76.00	889.31
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	0.3009	97.50	29.34
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	1.2036	97.50	117.35
9	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	4	260.00	1040.00
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	Earthing of Support (Coil Type)	No	1	215.80	215.80
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.262	97.50	25.55
14	PG Clamp for 55 sq. mm AAAC	No	9	624.00	5616.00
15	HT Stay Set (Complete)	Set	1	1365.00	1365.00
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	1	162.50	162.50
17	HT Stay Insulator	No.	1	65.00	65.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	15	97.50	1462.50
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	101.40	753.71
20	Yellow colour paint for Background	Ltr	2	216.00	432.00
21	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A				A. Sub total	64,462.39
B				B. Stock, Storage & Insurance @ 3% of A	1,933.87
C				Sub Total (C=A+B)	66,396.26
D				T&P @ 2% of C	1,264.99
E				Contingency @ 3% of C	1,991.89
F				Transportation @ 7.5% of C	4,979.72
G				Erection Charges @ 20 % on PSC poles	
H				Erection Charges @ 5 % on Joist/WPB poles	1,527.54
I				Erection Charges @ 10%	3,269.88
J				Total	79,430.27

19	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 0.5Cum 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	1	2250.00	2250.00
40	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
41	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)					85,336.52
B	11 KV PIN POINTS WITH WPB				
I	55 sq. mm AAAC	Km	0.0618	39000.00	2410.20
A	A. Sub total				2,410.20
B	B. Stock, Storage & Insurance @ 3% of A				72.31
C	Sub Total (C=A+B)				2,482.51
D	T&P @ 2% of C				49.65
E	Contingency @ 3% of C				74.48
F	Transportation @ 7.5% of C				186.19
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				248.25
H	Total				3,041.07
	Total Rs.				987,633.97
	Cess @ 1%				9,876.34
	Total Estimated Cost				997,510.31
	Total Estimated Cost in Figures				997,510.00
EXCESS	<input type="checkbox"/> LESS <input type="checkbox"/> (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) I/C

Sd/-
Project Manager (Elect)