

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.nic.in

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 HOSTEL BUILDING AND COMMON FACILITY CENTRE AT GOPABANDHU ACADEMY, BHUBANESWAR IN THE DISTRICT OF KHURDA.

BID REF NO :- 01/PM/ELECT/OPHWC/2024-25

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.
	PART-A				
I	CONSTRUCTION OF 11 KV LINE USING 80 SQ. MM AAAC-0.005 KM CONVERSION OF 11 KV LINE FROM 3 PH 3W 34 SQ. MM AAAC TO 80 SQ. MM AAAC-0.12 KM ERECTION OF WPB INTERMEDIATE SUPPORT-02 NOS. DISMANTLING OF 11 KV LINE-0.12 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	45.884	76.00	3487.18
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.	6	455.00	2730.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
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 80 sq. mm AAA Conductor	No	6	689.00	4134.00
15	HT Stay Set (Complete)	Set	2	1365.00	2730.00
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
17	HT Stay Insulator	No.	2	65.00	130.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00

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				60,185.08
B	B. Stock, Storage & Insurance @ 3% of A				1,805.55
C	Sub Total (C=A+B)				61,990.63
D	T&P @ 2% of C				1,113.95
E	Contingency @ 3% of C				1,859.72
F	Transportation @ 7.5% of C				4,649.30
	Erection Charges @ 5% on poles				1,527.64
G	Erection Charges @ 10%				2,514.68
H	Total				73,655.92
22	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 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.	No	2	2250.00	4500.00
23	Couping Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	Total Material + Services Cost (J+K)				81,812.17
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	11 KV V cross arm	No	2	1053.00	2106.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	2	195.00	390.00
4	Danger plate	No	2	104.00	208.00
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	0.6	97.50	58.50
6	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
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	2.41	97.50	234.98
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	6	260.00	1560.00
9	Earthing of Support (Coil Type)	No	2	215.80	431.60
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.52	97.50	50.70
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	2.9	101.40	294.06
12	80 sq. mm AAAC	Km	0.3708	55900.00	20727.72
13	Yellow colour paint for Background	Ltr	4	216.00	864.00
14	Black colour paint for numbering	Ltr	2	286.00	572.00
A	A. Sub total				87,443.56
B	B. Stock, Storage & Insurance @ 3% of A				2,623.31
C	Sub Total (C=A+B)				90,066.86
D	T&P @ 2% of C				1,801.34

E	Contingency @ 3% of C				2,702.01
F	Transportation @ 7.5% of C				6,755.01
	Erection Charges @ 5% on poles				3,055.08
G	Erection Charges @ 10%				2,896.55
H	Total				1,07,276.85
15	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	0.9	6500.00	5850.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6500.00	1462.50
17	Dismantling of RS Joist Pole	EA	1	1380.92	1380.92
18	Dismantling of PSC pole	EA	2	920.61	1841.22
19	Dismantling of 11 KV V cross arm	No	3	41.40	124.20
20	Dismantling of 34 sq. mm AAAC	Mtr.	360	9.21	3315.60
	Total Material + Services Cost (J+K)				1,21,251.29
	Salvage Value				4,296.24
	Total Rs.				1,16,955.05
II	SHIFTING AND REINSTALLATION OF 500 KVA S/S. ARRANGEMENT FOR INSTALLATION OF 11 KV METERING UNIT ON S/S DP STRUCTURE. DISMANTLING OF 500 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	Top Channel GI 100X50X6mm,3000 mm Long) 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	57.36	76.00	4,359.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
4	Double Pole Belting Channel 75x40x4.8 mm ,7.14 Kg/Mtr., each channel length 3.0 Mtr.,2 Nos. required	Kg	42.84	76.00	3,255.84
5	50x50x6 mm GI Bracing Angle,4.5 Kg/Mtr. ,each angle Length 3.512 Mtr.,2 Nos. angle required.	Kg	31.608	76.00	2,402.21
6	M.U Channel GI 75x40x4.8 mm (3000 mm long)(7.14Kg./Mtr., 2 No's.)	Kg	42.84	76.00	3,255.84
7	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84
8	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
9	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
10	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
11	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
12	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
13	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For L.A and 2.5 Mtr for raising, 11 Mtr. For AB Switch ,2.8 Mtr. for HG Fuse, 5x2 Mtr. For DTR neutral,(13-4.5)mtr. For DTR Body, 0.500 Mtr. For LTDB & AB switch operating handle, 3 Mtr. for fencing.)	Kg	154.816	97.50	15094.56
14	LT Distribution Box with MCCB, Aluminium Busbar of 4 Bay with kit kat fuse for 500 KVA S/S	No	1	126149.00	126149.00
15	55mm2 All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00

16	4 Cx400 mm ² LT XLPE Cable(Armoured) - FOR 500 KVA Trf.	Mtr	180	359.66	64738.80
17	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
18	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
19	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
20	Disc insulator (B&S)70 KN polymer	No	3	1495.00	4485.00
21	H W fitting (B&S)70KN(3bolted)	Pair	3	455.00	1365.00
22	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
23	11 KV Pin Insulator polymer type	No	3	260.00	780.00
24	HT Stay Set (Complete)	Set	2	1365.00	2730.00
25	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
26	HT Stay Insulator	No.	2	65.00	130.00
27	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
28	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
29	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
30	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
31	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
32	Danger plate	Kg	2	104.00	208.00
33	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
34	Name Plate	No	1	104.00	104.00
35	Yellow colour paint for Background	Ltr	2	216.00	432.00
36	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				3,52,814.07
B	B. Stock, Storage & Insurance @ 3% of A				10,584.42
C	Sub Total (C=A+B)				3,63,398.49
D	T&P @ 2% of C				5,611.65
E	Contingency @ 3% of C				10,901.95
F	Transportation @ 7.5% of C				27,254.89
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				3055.08
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				21,948.07
J	Total				4,32,170.13
37	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
38	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00
39	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
40	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
41	LT DB Plinth	No	1	3000.00	3,000.00
42	DTR Plinth upto 1000 KVA	No	1	30360.00	30,360.00

43	Laying of 1Cx400 sq. mm LT XLPE cable	Mtr	180	72.00	12,960.00
44	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
45	Dismantling of RS Joist Pole	EA	2	1380.92	2761.84
46	Dismantling of MS channel	Kg	150	7.92	1188.00
47	Dismantling of 500 KVA Tfr.	No	1	6107.33	6107.33
48	Re installation of 500 KVA Tfr.	No	1	30687.00	30687.00
					1,96,783.17
				Sub total Rs	6,28,953.30
III	LAYING OF 1.1 KV XLPE INSULATION ARMOURED U/G CABLE ALONG WITH MULTIMETER PANEL AND LT FEEDER PILLAR.				
	Supply of materials for 1.1 KV XLPE insulation armoured UG cable with accessories-open Trench(Along with spare cable)				
1	Supply of 1.1 KV , 4 core 95 sq. mm XLPE insulation armoured Aluminium UG Cable	Mtr.	80	479.61	38,368.80
2	Supply of HDPE PE 80-PN8 pipe of 110mm diameter	Mtr.	80	357.60	28,608.00
A				A. Sub total	66,976.80
	Laying , Commissioning ,Testing of 1.1 KV aluminium, XLPE insulation armoured UG cable by open trench method				
1	Laying of 1.1 KV ,4 core 95 sq. mm XLPE insulation armoured-Aluminium UG cable	Mtr	80	46.8	3,744.00
2	Laying of 110 mm dia HDPE pipe	Mtr.	80.00	300	24,000.00
					27,744.00
	Civil works with supply of all materials like cement, MS ton rod, bricks, course & fine aggregates and labour, T&P, etc for UG Cable by Open Trench method.				
1	Earth work excavation of soil(1 Mtr. Width x 1 mtr. Depth)	Mtr.	40		
2	Earth work excavation of soil	cum	28	700.00	19,600.00
3	Earth work excavation of hard rock	Cum	12	1720.00	20,640.00
4	Back filling with excavation soil outside and above the trench	Cum	40	202.00	8,080.00
5	Damage of asphalt/tar road and other utilities and reconstructing to bring to its original shape after laying of cable in open trench(1 Mtr. Width)	Mtr	25	2643.67	66,091.75
				SubTotal	1,14,411.75
A				A. Sub total	66,976.80
B				B. Stock, Storage & Insurance @ 3% of A	2,009.30
C				Sub Total (C=A+B)	68,986.10
D				T&P @ 2%	
E				Contingency @ 3% of C	2,069.58
F				Transportation @ 7.5% of C	5,173.96
G				Erection charges @10% of earthing items and Multimeter Panel	
H				Total	76,229.64
I				Sub Total(Erection+civil)	1,42,155.75

	Total Rs.				2,18,385.39
IV	Construction of LT Line using 4X95+1x95+1x16 sq. mm LT AB Cable- -0.42 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	14	3900.00	54,600.00
2	LT stay set complete	Set	7	676.00	4,732.00
3	7/12 SWG GI stay wire, Grade-2	Kg	84	97.50	8,190.00
4	LT stay clamp	Pair	7	143.00	1,001.00
5	LT stay set Insulator	No	7	39.00	273.00
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	21	260.00	5,460.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	14	78.00	1,092.00
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	14	84.50	1,183.00
9	Suspension Clamp with EYE hook for ABC	No	7	442.00	3,094.00
10	4X95(P)+1x95(M)+1x16(Street Light) mm2 (LT AB Cable)	Mtr	441	368.64	1,62,570.24
11	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No	8	113.03	904.24
12	GI Pipe for earthing	No	3	1365.00	4,095.00
13	Coil Earthing	No	11	215.80	2,373.80
14	No-8 GI wire (Dia-4.6mm)	Kg	3.668	97.50	357.63
15	Danger plate (LT)	No	14	104.00	1,456.00
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	4.21	97.5	410.48
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	42	104	4368.00
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	16.85	97.5	1642.88
19	GI Nut, Bolt & washers of different sizes	Kg	7	101.40	709.80
20	Yellow colour paint for Background	Ltr	28	216.00	6,048.00
21	Black paint	Ltr	14	286.00	4,004.00
A	TOTAL MATERIAL COST				2,68,565.06
B	Stock, Storage & Insurance @ 3% of A				8,056.95
C	Sub Total (C=A+B)				2,76,622.01

D		Contingency @3% of C			8,298.66
E		T & P 2% of C			5,155.66
F		Transportation @ 7.5% of C			20,746.65
G		Erection Charges for PSC Pole @ 20%			11,247.60
H		Erection Charges of DTR and Joist Poles @ 5%			
I		Erection Charges of other @ 10%			20,154.50
J		Sub Total Rs.			3,42,225.08
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	7	2250	15750
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	5.25	6500.00	34,125.00
24	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	3	3700.00	11,100.00
K	Total Services Cost				60,975.00
	Total Material + Services Cost (J+K)				4,03,200.08
					14,49,306.00
					Cess @ 1%
					14,493.06
	Total Estimated Cost				14,63,799.06
	Total Estimated Cost in Figures				14,63,799.00
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/-
DM (Elect.)/I/C

Sd/-
Project Manager(Elect.)