

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
JANAPATH, BHOINAGAR, BHUBANESWAR - 22
[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :- 02 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO AMA BUS STAND AT MATHILI IN THE DISTRICT OF MALKANGIRI.

BID REF NO.- 22/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					
PART-I	3 phase 3W 11 KV Line-0.25 Km				
1	11 Mtr Long (160x160)mm WPB Pole(30.44 Kg/mtr)	No	7	34321.52	240250.64
2	Earthing support coil type	No	7	225.76	1580.32
3	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.83	102.00	186.66
4	100x50x6 mm GI channel for straight cross arm,1.2 Mtr. Each 6 Nos,0.2 Mtr. Long 6 Nos. for tapping.	Kg	77.28	102.00	7882.56
5	11 KV 'V' cross arm(10.2 Kg each)	No.	5	1240.32	6201.60
6	11 KV F clamp 2.9 Kg each	No	5	365.84	1829.20
7	GI Back clamp for 11 KV V Cross Arm	No.	5	108.80	544.00
8	11 Kv pin insulator Polymer	No	25	272.00	6800.00
9	1C x70 sq. mm 11 KV XLPE insulated covered conductor	Km	0.7875	190000.00	149625.00
10	Disc insulator 45 KN (B&S) Polymer	No.	24	1169.60	28070.40
11	11 KV HW fitting B&S)2 Bolted	No	6	176.80	1060.80
12	IPC for 70 sq. mm 11 KV XLPE insulated covered conductor	No	6	371.00	2226.00
13	Dead end clamp 11 Kv	Kg	12	890.00	10680.00
14	Non-metallic Ties 11KV(for covered conductor)	No	25	251.00	6275.00
15	Covered conductor outdoor termination Kit for 70 sq. mm	No	6	970.00	5820.00
16	GI Nuts and Bolts of assorted size	Kg	8	106.08	848.64
17	HT stay set complete	No.	6	1428.00	8568.00
18	11KV stay insulator Polymer	No.	6	68.00	408.00
19	7/10 SWG stay wire	Kg	60	102.00	6120.00
20	HT stay clamp (1.9 Kg/Pair)	pair	6	170.00	1020.00
21	Danger Board	No	7	108.80	761.60

22	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For each back clamp	Kg	2.1063	102.00	214.84
23	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	21	108.80	2284.80
24	Back clamp for barbed wire anticlimbing device 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. Length 4 Nos.	Kg	8.425	102.00	859.35
25	Sundries (Al. binding tape, clamp, connector etc.)	LS	1	1000.00	1000.00
	Total Rs.				451828.02
PART-II	Installation of 250 KVA 11/0.4KV sub station - 1 No.				
1	11 Mtr Long (160x160)mm WPB Pole	No	2	34321.52	68643.04
2	Top Pressure GI Channel 100x50x6mm channel each 2.8 mtr long,2 Nos(9.2K.g/mtr)	K.g	51.52	102.00	5255.04
3	AB switch &HG fuse GI mounting channel(75x40x6)mm,each 2.8mtr long 4 No(6.8Kg/mtr)	K.g	76.16	102.00	7768.32
4	GI Bracing Channel 75x40x6mm. 2.8 mtr. Long 2 Nos. (6.8kg./mtr.)	Kg.	38.08	102.00	3884.16
5	GI Bracing Angle 50x50x6 mm. 3.5 mtr. Long 2 Nos. (4.5 kg./mtr.)	Kg.	31.5	102.00	3213.00
6	Cantilever GI channel for supporting HG Fuse, (75x40x6)mm,each 1 mtr Long,2 nos(6.8Kg/mtr)	Kg.	13.6	102.00	1387.20
7	Cantilever GI channel for supporting HG Fuse, (50x50x6)mm,each 1 mtr Long,2 nos(4.5Kg/mtr)	K.g	9	102.00	918.00
8	Angle for cantilever arrangement for AB switch and HG Fuse (50x50x6) 2 mtr Long,2 nos(4.5Kg/Mtr)	Kg	18	102.00	1836.00
9	Angle for Mounting LT distribution Box (50x50x6) mm Angle(GI)- 2.5 mtr Long,2 nos(4.5Kg/Mtr)	Kg	22.5	102.00	2295.00
10	Disc insulator 45 KN (B&S) Polymer	No.	3	1169.60	3508.80
11	11 KV HW fitting (T&C)45 KN	No	3	353.60	1060.80
12	11KV AB switch(3 pole,50Hz)	Set	1	16116.00	16116.00
13	11KV HG fuse (3 pole)with PI	Set	1	15680.00	15680.00
14	11 KV LA	No.	3	4828.00	14484.00
15	LT Distribution Box with MCCB, Aluminium Bus Bar for 3 bay with Kitkat fuse for 250 KVA S/S .	No	1	65280.00	65280.00
16	HT stay set complete	No.	4	1428.00	5712.00
17	11KV stay insulator	No.	4	68.00	272.00
18	7/10 SWG stay wire, Grade-2	Kg	40	102.00	4080.00
19	HT stay clamp (1.9 Kg/Pair)	pair	4	170.00	680.00
20	Earthing device coil type	No	2	225.76	451.52

21	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.52	102.00	53.04
22	Danger Board	No.	2	108.80	217.60
23	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For each back clamp	Kg	0.6018	102.00	61.38
24	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	6	108.80	652.80
25	Back clamp for barbed wire anticlimbing device 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For each back clamp	Kg	2.407	102.00	245.51
26	25x6 mm GI flat(Neutral)	Kg	45	102.00	4590.00
27	25x4 mm GI flat	Kg	20	102.00	2040.00
28	250 KVA 11/0.4 KV (AL) Transformer with Tap changer BIS Energy Level-II	No	1	365092.00	365092.00
29	1Cx300 sq. mm LT XLPE Cable(10 Mtr.x4 nos.)	Mtr.	40	519.52	20780.80
30	40 mm Nominal bore GI Pipe Medium gauge(3.25 mm thickness) earthing device 3 mtrs long	No	7	1428.00	9996.00
31	GI Nuts and Bolts of assorted size	Kg	36	106.08	3818.88
32	Sundries (Al. binding tape, insulation tape, paint etc.)	LS	1	2000.00	2000.00
					632072.90
	A.Sub Total Rs.				10,83,900.92
B	Stock,storage and insurance (@3% on A)				32517.03
C	TOTAL RS.				1116417.94
D	T&P @ 2% of C				22328.36
E	Contingency @ 3% of C				33492.54
F	Transportation @ 7.5% of C				83731.35
G	Erection charges @ 10% on others ,5% on Dist. Transformers/Joist Pole/WPB Poles and 20% on PSC poles				77921.36
H	TOTAL RS.				1333891.55
33	Cement concrete for Stay Anchor Plate 1:2:4,0.2	Nos.	6	1235.58	7413.48
34	Couping of Poles in ratio 1:1:5:3,0.1125 cum	Nos.	9	720.00	6480.00
35	Concreting of 11 Mtr. Pole in ratio 1:1:5:3, 0.375 cum	Nos.	9	2880.00	25920.00
36	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	7	1600.00	11200.00

37	<p>Plinth :-</p> <p>1) Earth work for digging of foundation plinth = 2mtr x 2mtr x 0.9mtr = 3.6 cum</p> <p>2) Filling of foundation and plinth with sand, water & rammed= 0.15mtr x 2mtr x 2mtr = 0.6 Cum</p> <p>3) CC (1:4:8) with 4cm size HBG Metal = 0.1 mtr x 2mtr x 2mtr=0.4 Cum</p> <p>4) RRHG stone machinery in coment mortor (1:6) in foundation plinth per 1 Cum (i) 0.65 mtr x 2mr x 2mtr = 2.5 Cum (ii) 1.4mtr x 1.8mtr x 1.8mtr = 4.54 Cum Total = 7.14 Cum</p> <p>5) CC (1:2:4) with 12mm size HBG chips= 0.1mtr x 1.8mtr x 1.8mtr = 0.32 Cum</p> <p>6) 8mm Rod= 1.8mtr x 13 x 2 = 46.8 mtr @0.39kg/mtr=6.8 x 0.39kg=,18.486 or 18.5 Kg</p> <p>7) 18mm thick cement plaster (1:6) over brick work & stone work = 4x1.8x1.8+1.8x1.8= 12.96+3.24=16.2 sqft.</p>	No	1	32181.60	32181.6
38	<p>Brick Boundary wall for fencing of Plinth mounted S/S in the size 5x4 Mtr @7300.12/RM considering height above ground Level -1.65 Mtr. And be;low ground Depth -1.2 Mtr. Including the cost of Fabrication ,installation of MS gate (1.5x1.65(as per mail received from NEP department dtd.-03.04.2024) for 250 KVA S/S.</p>	RM	18	7300.12	131402.16
39	Dismantling charges of existing HT Lines	No	5	500.00	2,500.00
40	Dismantling charges of existing HT Poles	No	6	972.00	5,832.00
				Total Rs.	2,22,929.24
	Total Rs.(PART-A)				15,56,820.79
	PART-B				
PART-I	3 phase 3W 11 KV Line				
1	11 Mtr Long (160x160)mm WPB Pole(30.44 Kg/mtr)	No	7	34321.52	240250.64
2	Straight cross arm Top GI channel 100x50x6 mm,9.56 Kg/Mtr., each channel Length 1.2 Mtr.	Kg	114.72	102.00	11701.44
3	Straight cross arm Top GI channel 100x50x6 mm,9.56 Kg/Mtr., each channel Length 0.306 Mtr.	Kg	29.25	102.00	2983.50
4	Fish Plate, 50x8 mm	Kg	3.26	102.00	332.52
5	11 KV 'V' cross arm(10.2 Kg each)	No.	5	1101.60	5508.00
6	11 KV F clamp 2.9 Kg each	No	5	326.40	1632.00
7	GI Back clamp for 11 KV V Cross Arm	No.	5	108.80	544.00
8	Danger Board	No	7	108.80	761.60
9	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	2.1063	102.00	214.84

10	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	21	108.80	2284.80
11	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. Length 4 Nos.	Kg	8.425	102.00	859.35
12	11 Kv pin insulator Polymer	No	21	272.00	5712.00
13	HT stay set complete	No.	5	1428.00	7140.00
14	11KV stay insulator Polymer	No.	5	68.00	340.00
15	7/10 SWG stay wire	Kg	50	102.00	5100.00
16	HT stay clamp (1.9 Kg/Pair)	pair	5	170.00	850.00
17	Earthing support coil type	Kg	7	225.76	1580.32
18	GI Nuts and Bolts of assorted size	Kg	10	106.08	1060.80
19	55 sq. mm AAAC	kM	0.2163	40800.00	8825.04
20	1C x70 sq. mm 11 KV XLPE insulated covered conductor	Km	0.5562	190000.00	105678.00
21	Disc insulator 45 KN (B&S) Polymer	No.	15	1169.60	17544.00
22	11 KV HW fitting B&S)2 Bolted	No	15	353.60	5304.00
23	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.83	102.00	186.66
					426393.51
PART-II	11 KV LINE AB SWITCH-1NO.				
1	11 Mtr Long (160x160)mm WPB Pole(30.44 Kg/mtr)	No	2	34321.52	68643.04
2	Straight cross arm Top GI channel 100x50x6 mm,9.56 Kg/Mtr., each channel Length 3 Mtr.	Kg	62.14	102.00	6338.28
3	Double Pole Belting GI channel 75x40x4.8 mm,7.14 Kg/Mtr., each channel Length 3 Mtr.	Kg	85.68	102.00	8739.36
4	50x50x6 mm GI Bracing Angle ,4.5 Kg/Mtr.,each angle Length 3.512 Mtr.	Kg	63.22	102.00	6448.44
5	Fish Plate, 50x8 mm,0.97 Kg/Mtr.,each 0.280 Mtr. Length	Kg	3.96	102.00	403.92
6	Danger Board	No	2	108.80	217.60
7	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	0.6	102.00	61.20
8	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	6	108.80	652.80
9	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. Length 4 Nos.	Kg	2.41	102.00	245.82
10	AB switch mounting channel(75x40x4.8)mm,7.14 Kg/Mtr.,each 3 mtr long 2 No.	K.g	42.84	102.00	4369.68
11	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	102.00	682.38
12	Channel support for down pipe 75x40x6 mm GI channel(7.14 8kg/mtr,1 Nos.)each channel length 0.8 Mtr.	Kg	5.71	102.00	582.42
13	50x6 mm GI Flat	Kg	48.38	102.00	4934.76
14	Disc insulator 45 KN (B&S) Polymer	No.	6	1169.60	7017.60

15	11 KV HW fitting B&S)3 Bolted	No	6	176.80	1060.80
16	Earthing support coil type	No	2	225.76	451.52
17	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.52	102.00	53.04
18	GI Nuts and Bolts of assorted size	Kg	13.72	106.08	1455.42
19	HT stay set complete	No.	4	1428.00	5712.00
20	11KV stay insulator Polymer	No.	4	68.00	272.00
21	7/10 SWG stay wire	Kg	40	102.00	4080.00
22	HT stay clamp (1.9 Kg/Pair)	pair	4	170.00	680.00
23	Lightning arrester(9 KV,10KA)DH class	No	3	1360.00	4080.00
24	11 KV AB switch,200A,3 Pole,50 Hz, Horizontal type	Set	1	9996.00	9996.00
25	11 Kv pin insulator Polymer	No	3	272.00	816.00
26	40 mm Nominal bore GI Pipe Medium gauge(3.25 mm thickness) earthing device 3 mtrs long	No.	1	1428.00	1428.00
27	55 sq. mm AAAC	Km	0.02	40800.00	816.00
					140238.08
	A.Sub Total Rs.				5,66,631.59
	B.Deduction of Salvage Value @8 %				45,330.53
	C. Total Material cost after deducting Salvage Value @8%				5,21,301.06
	D. Stock, Storage & Insurance @ 3% of C				15,639.03
	E. Sub Total (E=C+D)				5,36,940.09
	T&P @ 2% of E				10,738.80
	Contingency @ 3% of E				16,108.20
	Transportation @ 7.5% of E				40,270.51
	Erection Charges @ 5% for Joist /WPB Pole cost including stock, storage & insurance @3%				14,635.39
	Erection Charges @ 20% for PSC Pole cost including stock, storage & insurance @3%				
	Erection Charges @ 10% for Other materials cost including stock, storage & insurance @3%				24,423.39
					643116.39
28	Cement concrete for Stay Anchor Plate 1:2:4,0.2	Nos.	9	1235.58	11120.22
29	Couping of Poles in ratio 1:1:5:3,0.1125 cum	Nos.	9	720.00	6480.00
30	Concreting of 11 Mtr. Pole in ratio 1:1:5:3, 0.45 cum	Nos.	9	2880.00	25920.00
31	Dismantling charges of existing HT Lines	No	2	500.00	1,000.00
32	Dismantling charges of existing HT Poles	No	2	972.00	1,944.00
	Total Rs.(PART-B)				689580.61
	Sub Total Rs.(PART-A+PART-B)				2246401.39
	Cess @ 1%				22,464.01
	Total Estimated Cost				22,68,865.41
	Total Estimated Cost in Figures				22,68,865.00
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 I/C (Elect)**

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