

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 DEPARTMENT OF FRUIT SCIENCE, COLLEGE OF AGRICULTURE AT BHUBANESWAR IN THE DISTRICT OF KHURDA.

BID REF NO :- 62/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.
I	INSTALLATION OF 25 KVA S/S.				
1	WPB 160X160X6-11 Mtr. Long ,30.44 Kg/mtr.	No.	2	34153.68	68307.36
2	GI Channel 100x50x6 mm	Kg	131.259	102.00	13,388.42
3	GI flat 50x6 mm	Kg	158.781	102.00	16,195.66
4	GI channel 75x40x4.8 mm	Kg	102.96	102.00	10,501.92
5	GI angle 50x50x6 mm	Kg	52.758	102.00	5,381.32
6	25 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	74449.55	74,449.55
7	LT Distrubution Box with MCCB, Aluminim Busbar for 25 KVA S/S.	No	1	20304.80	20,304.80
8	55 sq. mm ACSR insulated(RABBIT)	Mtr.	50	55.24	2,762.00
9	1.1 KV 4Cx 35 sq. mm LT XLPE cable(Un Armoured)	Mtr	15	205.06	3,075.90
10	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8323.20	8,323.20
11	11 KV AB Switch Trip Pole Gang Ope,200 A)	No	1	9996.00	9,996.00
12	Wedge connector for 55 sq. mm conductor	No	6	146.20	877.20
13	Polycarbonate Bird Guard	No	6	20.96	125.76
14	11 KV Disc insulator polymer type 70 KN	No	3	1564.00	4,692.00
15	11 KV H/W fitting polymer type	Pair	3	476.00	1,428.00
16	11 KV Lightning Arrester(12 KV,10 KA)	EA	3	4828.00	14,484.00
17	11 KV Pin Insulator Polymer,11 KV 200 mm FRP Dia.	No	3	272.00	816.00
18	HT Stay Set (Complete)	Set	2	1428.00	2,856.00

19	HT Stay Insulator	No.	2	68.00	136.00
20	HT Stay Clamp(150x150 mm RS Joist)	Pair	2	170.00	340.00
21	7/10 SWG Stay Wire ,7/3.25 mm	KG	30	102.00	3,060.00
22	GI Pipe for earthing 40mm dia 3mtr long	EA	7	1428.00	9,996.00
23	GI Nut, Bolt & washers of different sizes	Kg	25	106.08	2,652.00
24	GI barbed wire/Anticlimbing device	No	6	108.80	652.80
25	GI Flat 25x3 mm	Kg	3.009	102.00	306.92
26	Danger plate	No	2	108.80	217.60
27	Name Plate	No	1	108.80	108.80
28	Enamel Paint yellow	Ltr.	2	167.46	334.92
29	Black paint with Barrel	Ltr.	1	299.20	299.20
A	A. Sub total				2,76,069.32
B	B. Stock, Storage & Insurance @ 3% of A				8,282.08
C	Sub Total (C=A+B)				2,84,351.40
D	T&P @ 2% of C				5,286.07
E	Contingency @ 3% of C				8,530.54
F	Transportation @ 7.5% of C				21,326.36
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				7351.98
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				11726.4
J	Total				3,38,572.75
30	Laying of PCC M20	M3	1.126	6,648.85	7,486.61
31	PCC 1:3:6	M3	1.5	5,247.48	7,871.22
32	Installation of 11 KV complete stay set with concrete	No	2	2,301.53	4,603.06
33	Earth chamber including installation of earthing pipe	No	7	3,784.73	26,493.11
34	Laying of cable upto 120 sq. mm	Mtr.	15	47.87	718.05
35	Supply & erection GI fencing with Gate	M2	16	3,682.44	58,919.04
36	Supply and crimping/fixing/connection of terminal AL 35 Lug	No	8	18.41	147.28
37	Supply and Installation of 3.5/4 core ,16-35 sq. mm Gland/AL term	No	3	368.24	1,104.72
	Total Rs.				4,45,915.84
II	CONSTRUCTION OF 11 KV LINE .				
A	11 KV CUT POINT WITH 180 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	34153.68	34153.68
2	GI channel 100X50X6mm	Kg	28.795	102.00	2937.09
3	GI flat 50x6 mm	Kg	5.286	102.00	539.17
4	Danger plate	No	1	108.80	108.80
5	GI Flat 25x3 mm	Kg	1.505	102.00	153.51
6	GI barbed wire/Anticlimbing device	No	3	108.80	326.40

7	11 KV Pin Insulator Polymer,11 KV 200 mm FRP Dia.	No	3	272.00	816.00
8	11 KV Disc insulator polymer type 70 KN	No	6	1564.00	9,384.00
9	11 KV H/W fitting polymer type	Pair	6	476.00	2,856.00
10	Non metallicTies -11 KV 55 sq. mm CVRD AAAC	No	3	251.00	753
11	IPC for 11 KV 55 sq. mm CVRD AAAC	No	6	371.00	2226
12	Coil earthing	No	1	225.76	225.76
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr. 2 Mtr. For connecting pole with coil earthing	Kg	0.262	102.00	26.724
14	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	106.08	376.584
15	Enamel Paint yellow	Ltr.	2	167.46	334.92
16	Black paint with Barrel	Ltr.	0.5	299.20	149.60
A	A. Sub total				55,367.24
B	B. Stock, Storage & Insurance @ 3% of A				1,661.02
C	Sub Total (C=A+B)				57,028.26
D	T&P @ 2% of C				1,140.56
E	Contingency @ 3% of C				1,710.85
F	Transportation @ 7.5% of C				4,277.12
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				1758.91
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				2184.99
J	Total				68,100.68
17	Laying of PCC M20	M3	0.563	6,648.85	3,743.30
	Total Rs.				71,843.99
B	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	34153.68	34153.68
2	GI channel 100X50X6mm	Kg	57.589	102.00	5874.078
3	GI flat 50x6 mm	Kg	10.573	102.00	1,078.45
4	Danger plate	No	1	108.80	108.80
5	GI Flat 25x3 mm	Kg	1.505	102.00	153.51
6	GI barbed wire/Anticlimbing device	No	3	108.80	326.40
7	11 KV Pin Insulator Polymer,11 KV 200 mm FRP Dia.	No	4	272.00	1,088.00
8	11 KV Disc insulator polymer type 70 KN	No	9	1564.00	14,076.00
9	11 KV H/W fitting polymer type	Pair	9	476.00	4,284.00
10	Non metallicTies -11 KV 55 sq. mm CVRD AAAC	No	4	251.00	1004
11	IPC for 11 KV 55 sq. mm CVRD AAAC	No	9	371.00	3339
12	Coil earthing	No	1	225.76	225.76

13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr. 2 Mtr. For connecting pole with coil earthing	Kg	0.262	102.00	26.724
14	HT Stay Set (Complete)	Set	1	1428.00	1,428.00
15	HT Stay Insulator	No.	1	68.00	68.00
16	HT Stay Clamp(150x150 mm RS Joist)	Pair	1	170.00	170.00
17	7/10 SWG Stay Wire ,7/3.25 mm	KG	15	102.00	1,530.00
18	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	106.08	788.49264
19	Enamel Paint yellow	Ltr.	2	167.46	334.92
20	Black paint with Barrel	Ltr.	0.5	299.20	149.60
A	A. Sub total				70,207.41
B	B. Stock, Storage & Insurance @ 3% of A				2,106.22
C	Sub Total (C=A+B)				72,313.63
D	T&P @ 2% of C				1,380.44
E	Contingency @ 3% of C				2,169.41
F	Transportation @ 7.5% of C				5,423.52
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				1758.91
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				3384.35
J	Total				86,430.26
21	Laying of PCC M20	M3	0.563	6,648.85	3,743.30
22	Installation of 11 KV complete stay set with concrete	No	1	2,301.53	2,301.53
	Total Rs.				92,475.10
C	11 KV PIN POINTS WITH WPB				
1	55 sq. mm 11 kv AAAC XLPE Covered Conductor	Mtr.	139.05	99.74	13,868.85
A	A. Sub total				13,868.85
B	B. Stock, Storage & Insurance @ 3% of A				416.07
C	Sub Total (C=A+B)				14,284.91
D	T&P @ 2% of C				285.70
E	Contingency @ 3% of C				428.55
F	Transportation @ 7.5% of C				1,071.37
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				1,428.49
J	Total				17,499.02

II	11 KV LINE PROTECTING GUARDING -1 No.				
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	62.832	102.00	6408.864
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	23.04	102.00	2350.08
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	4.9125	102.00	501.075
4	Eye Bolt(236 mm, 16 mm dia, 1.577 Kg/mtr.)	No	4	136.00	544
5	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	2	1428.00	2856
6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	50.504	102.00	5151.408
A	A. Sub total				17,811.43
B	B. Stock, Storage & Insurance @ 3% of A				534.34
C	Sub Total (C=A+B)				18,345.77
D	T&P @ 2% of C				308.08
E	Contingency @ 3% of C				550.37
F	Transportation @ 7.5% of C				1,375.93
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				1,540.40
J	Total				22,120.56
7	Earth chamber including installation of earthing pipe	No	2	3,784.73	7,569.46
	Total Rs.				29,690.02
III	LT Line				
1	9 Mtr Long 300 KG PSC Pole	No	14	4080.00	57120.00
2	LT Stay set Complete	Set	9	707.20	6364.80
3	7/12 SWG GI stay wire, Grade -2	Kg	108	102.00	11016.00
4	LT stay Clamp (1.40Kg/pair)	Pair	9	149.60	1346.40
5	LT Stay insulator	No	9	40.80	367.20
	LT Accessories with Eye Hook and Clamp				
6	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	39	272.00	10608.00
7	EYE hook for XLPE Aerial bunched Cable	No	18	81.60	1468.80
8	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No	18	88.40	1591.20
9	Suspension Clamp with EYE hook for ABC	No	21	462.40	9710.40

10	4C×50 mm ² (P)+1C×50 mm ² (M)+1CX50 mm ² (Street Light) (LT AB Cable)	Mtr	472.5	214.00	101115.00
11	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No	16	113.08	1809.28
12	Pipe Earthing (each 5th pole to earth)	No	3	1428.00	4284.00
13	Coil Earthing	No	11	225.76	2483.36
14	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	3.668	102	374.14
15	Danger plate (LT)	Kg	14	108.8	1523.20
16	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	Kg	4.21	102.00	429.42
17	GI barbed wire anticlimbing device 3 Kg. Per support	Ltr	42	108.80	4569.60
18	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	Kg	16.85	102.00	1718.70
19	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	7	106.08	742.56
20	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr.	28	167.46	4688.88
21	Black paint (GIS Numbering & Zebra stripping)	Ltr	14	299.20	4188.80
A	A. Sub total				2,27,519.74
B	B. Stock, Storage & Insurance @ 3% of A				6,825.59
C	Sub Total (C=A+B)				2,34,345.33
D	T&P @ 2% of C				4,205.32
E	Contingency @ 3% of C				7,030.36
F	Transportation @ 7.5% of C				17,575.90
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				
H	Erection Charges @ 20% on PSC Poles				11766.72
I	Erection Charges @ 10% for other materials				15,143.23
J	Total				2,90,066.86
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	9	2301.53	20713.77

23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	5.25	6648.85	34906.4625
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	3784.73	11354.19
					66974.4225
	Total Rs.				3,57,041.28
	Sub Total Rs.				10,14,465.23
				Limited to	10,09,965.23
	Cess @1%				10,099.65
	Total Estimated Cost				10,20,064.89
	Total Estimated Cost in Figures				10,20,065.00
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)**

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