

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 :- 01 AS PER IFB

**NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK
(CONSTRUCTION OF 100 KVA SUB-STATION, 11 K.V & L.T LINE AND DISMANTLING & RE-
INSTALLATION OF 25 KVA SUB-STATION) OF NEW DISTRICT JAIL BUILDING AT ERBANKA IN
THE DISTRICT OF JAJPUR.**

BID REF NO :- 57/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. 2018-19	AMOUNT IN RS.
PART-A					
SCOPE [A]	Construction of 11 KV Line with 55 sq. mm AAAC -0.60 Km				
SCOPE [B]	Construction of 25 KVA DP mounted Transformer(with existing transformer)-2 Nos.				
SCOPE [C]	Dismantling of 11 KV Line and 25 KVA S/S.				
1	9 Mtr. Long 300 KG PSC Pole	Nos	6	3000.00	18000.00
2	150x150 mm 11 Mtr. Long GI joist Pole	No.	8	28545.00	228360.00
3	11 K.V. V cross arm	No.	10	810.00	8100.00
4	11 KV F clamp	No.	10	240.00	2400.00
5	Back clamp for V cross arm	No.	10	80.00	800.00
6	11 KV Pin Insulator polymer	No.	33	200.00	6600.00
7	11 KV T&C Hardware (45KN)	set	12	130.00	1560.00
8	Disc insulator(T&C)45 KN Polymer	No	12	860.00	10320.00
9	Pressure Channel 100x50x6 mm MS Channel(each 2.8 Mtr. Long(9.2 Kg/Mtr.)2 Nos.	Kg	134	65.00	8710.00
10	Transformer mounting Channel 100x50x6 mm MS Channel(each 2.8 Mtr. Long(9.2 Kg/Mtr.)2 Nos.	Kg	104	65.00	6760.00
11	AB switch & HG Fuse mounting channel 75x40x6 mm each 2.8 Mtr. Long 4 Nos.(6.8 Kg/Mtr.)	Kg	152	65.00	9880.00
12	Transformer Belting Angle 50x50x6 mm Angle(each 2.8 Mtr. Long(4.5 Kg/Mtr.)with side angle	Kg	64	65.00	4160.00
13	Angle for mounting LT Distribution Box 50x50x6 mm MS Angle(each 2.5 Mtr. Long(4.5 Kg/Mtr.)with side angle	Kg	46	65.00	2990.00
14	11 KV 3 pole 400 A AB switch	Set	2	11850.00	23700.00

15	11 KV 3 pole 400 A HG Fuse with PI	Set	2	11530.00	23060.00
16	Lightning arrester ,12 KV- 10 KA	No	6	3550.00	21300.00
17	HT Stay set complete	Set	6	1050.00	6300.00
18	7/10 SWG Stay wire	Kg	60	75.00	4500.00
19	HT Stay Insulator	No.	6	50.00	300.00
20	HT stay clamp	Pair	6	125.00	750.00
21	GI pipe earthing device 40 mm dia medium gauge 3 mtrs. Long	No	10	1050.00	10500.00
22	No. 6/8 GI wire(dia 4.6 mm)	Kg	40	75.00	3000.00
23	25x5 mm GI flat for neutral earthing	Kg	40	75.00	3000.00
24	55 sq. mm insulated conductor	Km	0.08	75920.34	6073.63
25	55 sq mm AAAC	Km	1.89	30000	56700.00
26	PG Clamp for 55 sq. mm AAAC	No.	9	479.66	4316.94
27	Red Oxide paint	Ltr	6	150.00	900.00
28	All. Paint	Ltr	8	200.00	1600.00
29	Black Paint	Ltr	1	220.00	220.00
30	GI nut,bolt & washer	Kg	87	78.00	6786.00
31	Earthing of support coil type	No	10	166.00	1660.00
32	Anticlimbing device made of GI Barbed wire ,clamping arrangement etc.(2 Kg per support)	Kg	20	80.00	1600.00
33	LT distribution Box with MCCB,Aluminium Bus bar of single bay with kit-kat fuse for 25 KVA Transformer	No.	2	14930.00	29860.00
34	3.5 core 185 sq. mm LT PVC cable(unarmoured)	Mtr	30	635.00	19050.00
35	All. Cable socket	No	64	35.00	2240.00
36	Danger Board	No	14	80.00	1120.00
37	Earthing materials	No	10	1890.00	18900.00
38	Sundries for survey, tree cutting ,small size nut & bolt with washer,Allm. Binding tape,Danger Board etc.	LS	1	3000.00	3000.00
39	Sundries for survey, PVC tape, ampire tape, Danger Board, small size nut & bolt,preparation of drawing cable socket etc..	LS	2	2000.00	4000.00
40	TOTAL MATERIAL COST				563076.57
41	Escalation @6%for 2019-20				596861.16
42	Escalation @6%for 2020-21				632672.83
43	Escalation @6%for 2021-22				670633.20
44	Escalation @6%for 2022-23				710871.19
45	Escalation @6%for 2023-24				753523.46
A	Escalation @6%for 2024-25				798734.87
B	Stock, Storage & Insurance @ 3% of A				23962.05
C	Sub Total (C=A+B)				822696.92
D	Contingency @3% of C				24680.91
E	T & P 2% of C				16453.94
F	Transportation @ 7.5% of C				61702.27
G	Erection Charges for PSC Pole @ 20%				5259.87

H	Erection Charges of DTR and Joist Poles @ 5%				24543.14
I	Erection Charges of other @ 10%				46274.65
J	Sub Total				1001611.69
K	Transportation + Labour cost of Dismatled materials(detail as per estimate)				23,436.00
L	Total Rs.				10,25,047.69
M	Salvage value of Dismantled material				16,904.48
N	Total Material cost after deduction of salvage value				10,08,143.21
46	Material cost for Concreting of Joist pole 2.13 Mtrx0.4 Mtr.x0.4 Mtr=0.34 cum(PCC 1:3:6)@6500	No	8	2215.20	17721.60
47	Material cost for Concreting of stay 1.80 Mtrx0.45 Mtr.x0.45 Mtr=0.364 cum(PCC 1:3:6)@6500	No	6	965.00	5790.00
48	Material cost for Concreting of PSC pole 2.13 Mtrx0.4 Mtr.x0.4 Mtr=0.34 cum(PCC 1:3:6)@6500	No	6	2369.49	14216.94
49	Barbed Fencing with Grill gate ,metal spreiding and Sand filling.	Ls	2	19000.00	38000.00
	Sub Total Rs.(PART-A)				1083871.75
	PART-B				
SCOPE [A]	Construction of 11 KV Line with 100 sq. mm insulated conductor -0.70 Km				
SCOPE [B]	Construction of 100 KVA Plinth mounted Transformer-1 No.				
SCOPE [C]	Construction of LT Line-0.4 Km				
SCOPE [D]	Erection of interposing pole on 11 KV Line at Tapping point-1 No.				
SCOPE [E]	Erection of 11 Kv 3 pole 400 amp DP with AB switch-1 No.				
SCOPE [F]	Construction of Metering unit DP for MU arrangement-1 No.				
SCOPE [G]	Road crossing Guarding-3 Span				
1	9 Mtr. Long 300 KG PSC Pole	Nos	10	3000	30000.00
2	150x150 mm 11 Mtr. Long GI joist Pole	No.	24	28545.00	685080.00
3	11 K.V. V cross arm	No.	16	810.00	12960.00
4	11 KV F clamp	No.	16	240.00	3840.00
5	Back clamp for V cross arm	No.	16	80.00	1280.00
6	11 KV Pin Insulator polymer	No.	63	200.00	12600.00
7	11 KV T&C Hardware (45KN)	set	30	130.00	3900.00
8	Disc insulator(T&C)45 KN Polymer	No	30	860.00	25800.00
9	100x50x6 mm MS Channel(each 2.8 Mtr. Long(9.2 Kg/Mtr.)2 Nos.	Kg	254	65.00	16510.00
10	75x40x6 MS Channel(each 2.8 Mtr. Long(6.8 Kg/Mtr.)with side angle	Kg	156	65.00	10140.00
11	50x50x6 mm MS Angle(each 2.8 Mtr. Long(4.5 Kg/Mtr.)with side angle	Kg	115	65.00	7475.00
12	11 KV 3 pole 400 A AB switch	Set	2	11850.00	23700.00

13	11 KV 3 pole 400 A HG Fuse with PI	Set	1	11530.00	11530.00
14	Lightning arrester ,12 KV- 10 KA	No	6	3550.00	21300.00
15	HT Stay set complete	Set	10	1050.00	10500.00
16	7/10 SWG Stay wire	Kg	100	75.00	7500.00
17	HT Stay Insulator	No.	10	50.00	500.00
18	HT stay clamp	Pair	10	125.00	1250.00
19	GI pipe earthing device 40 mm dia medium gauge 3 mtrs. Long	No	7	1050.00	7350.00
20	No. 6/8 GI wire(dia 4.6 mm)	Kg	20	75.00	1500.00
21	25x5 mm GI flat for neutral earthing	Kg	30	75.00	2250.00
22	55 sq. mm insulated conductor	Km	0.04	75920.34	3036.81
23	11 KV 1 core 100 sq. mm XLPE insulated AAAC(Un armoured)	Km	2.205	90000	198450.00
24	PG Clamp for 100 sq. mm AAAC	No.	24	580	13920.00
25	Earthing of support coil type	No	32	166.00	5312.00
26	Anticlimbing device made of GI Barbed wire ,clamping arrangement etc.(2 Kg per support)	Kg	44	80.00	3520.00
27	Red Oxide paint	Ltr	4	150.00	600.00
28	All. Paint	Ltr	3	200.00	600.00
29	Black Paint	Ltr	0.5	220.00	110.00
30	GI nut,bolt & washer	Kg	101	78.00	7878.00
31	LT distribution Box with MCCB,Aluminium Bus bar of 2bay with kit-kat fuse for 100 KVA Transformer	No.	1	24419.00	24419.00
32	100 KVA 11/0.4 KV Transformer(BIS Energy Level-II)	No.	1	117000.00	117000.00
33	3.5 core 185 sq. mm LT PVC cable(unarmoured)	Mtr	10	634.75	6347.50
34	All. Cable socket	No	34.75	32.00	1112.00
35	AB cable(3x95+1x70+1x16) sq. mm	Km	0.44	243000.00	106920.00
36	Dead end clamp	No.	8	65.00	520.00
37	Suspension clamp with I hook	No.	6	340.00	2040.00
38	Pole clamp with I hook(ABC)	Pair	11	200.00	2200.00
39	Insulated piercing connector.Type-A-main 16 to 95 sq.mm & Tap-16 to 95 sq.mm	No	40	80.00	3200.00
40	Neutral connector.Type-B-main 35 to 70 sq.mm & Tap-2.5 to 10 sq.mm service cable over by black weather resistant insulation cover	No	10	33.00	330.00
41	LT Stay set complete	Set	7	520.00	3640.00
42	7/12 SWG GI stay wire	Kg	70	75.00	5250.00
43	LT stay insulator	No.	7	110.00	770.00
44	LT stay clamp	No.	7	30.00	210.00
45	Danger Plate	No.	24	80.00	1920.00
46	Guarding for Road crossing	Kg	3	11031.36	33094.08
47	Earthing materials	No	7	1890.00	13230.00
48	Sundries for survey, tree cutting ,small size nut & bolt with washer,Allm. Binding tape,Danger Board etc.	LS	1	3000.00	3000.00

49	Sundries for survey, PVC tape, ampire tape, Danger Board, small size nut & bolt,preparation of drawing cable socket etc..	LS	2	2000.00	4000.00
50	TOTAL MATERIAL COST				1459594.39
51	Escalation @6%for 2019-20				1547170.06
52	Escalation @6%for 2020-21				1640000.26
53	Escalation @6%for 2021-22				1738400.28
54	Escalation @6%for 2022-23				1842704.29
55	Escalation @6%for 2023-24				1953266.55
A	Escalation @6%for 2024-25				2070462.54
B	Stock, Storage & Insurance @ 3% of A				62113.88
C	Sub Total (C=A+B)				2132576.42
D	Contingency @3% of C				63977.29
E	T & P 2% of C				42651.53
F	Transportation @ 7.5% of C				159943.23
G	Erection Charges for PSC Pole @ 20%				8766.45
H	Erection Charges of DTR and Joist Poles @ 5%				58594.93
I	Erection Charges of other @ 10%				91684.54
J	Sub Total				2558194.39
56	Material cost for Concreting of Joist pole 2.13 Mtrx0.4 Mtr.x0.4 Mtr=0.34 cum(PCC 1:3:6)@6500	No	24	2215.20	53164.80
57	Material cost for Concreting of stay 1.80 Mtrx0.45 Mtr.x0.45 Mtr=0.364 cum(PCC 1:3:6)@6500	No	17	965.00	16405.00
58	Material cost for Concreting of PSC pole 2.13 Mtrx0.4 Mtr.x0.4 Mtr=0.34 cum(PCC 1:3:6)@6500	No	10	2369.49	23694.90
59	Boundary wall of S/S with metal spreading	Ls	1	35000.00	35000.00
60	Transformer Plinth	Ls	1	35000.00	35000.00
	Sub Total Rs.(PART-B)				2721459.09
	Total Rs.(PART-A+PART-B)				3805330.85
	Cess @1%				38,053.31
	Total Estimated Cost				38,43,384.15
	Total Estimated Cost in Figures				38,43,384.00
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.)**