

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 REVISIONAL COURT BUILDING AT KENDRAPADA.

BID REF NO :- 50/DGM/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	11 KV LINE				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	PSC Pole Clamp	No	1	108.80	108.80
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	22.944	102.00	2,340.29
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.2864	102.00	539.21
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.85072	102.00	596.77
5	11 KV pin insulator polymer	Set	4	272.00	1,088.00
6	H W fitting(B&S) 70KN, 3Bolt	No.	3	476.00	1,428.00
7	Disc insulator (B&S) 70 KN polymer	No.	3	1564.00	4,692.00
8	Wedge connector for 55 sq. mm Conductor	No	3	146.20	438.60
9	Polycarbonate Bird Guard	No	7	20.96	146.72
10	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	1	170.00	170.00
11	HT Stay Set (Complete)	Set	1	1428.00	1,428.00
12	HT Stay Insulator	No.	1	68.00	68.00
13	7/10 SWG Stay Wire , 15 Kg/stay	KG	15	102.00	1,530.00
14	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	106.08	788.49
A	A. Sub total				15,362.89
B	B. Stock, Storage & Insurance @ 3% of A				460.89
C	Sub Total (C=A+B)				15,823.77
D	T&P @ 2% of C				250.64
E	Contingency @ 3% of C				474.71
F	Transportation @ 7.5% of C				1,186.78
	Erection Charges @ 20% on poles				
G	Erection Charges @ 10%				1,253.19
H	Total				18,989.10

15	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 0.5 Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material as per TPCODL Drawing and standard.	No	1	2301.53	2,301.53
Total Material + Services Cost (J+K)					21,290.63
B	11 KV PIN POINTS WITH PSC POLE				
1	10 Mtr. Long 330 KG PSC Pole	No	5	8840.00	44,200.00
2	PSC Pole Clamp(GI)	No	5	108.80	544.00
3	11 KV V cross arm(GI)10.2 Kg each	No	5	1101.60	5,508.00
4	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	5	204.00	1,020.00
5	Danger plate	No	5	108.80	544.00
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	1.5	102.00	153.00
7	GI barbed wire/Anticlimbing device	No	15	108.80	1,632.00
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	6.02	102.00	614.04
9	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	15	272.00	4,080.00
10	Earthing of Support (Coil Type)	No	5	225.76	1,128.80
11	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.31	102.00	133.62
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.25	106.08	769.08
13	55 sq. mm AAAC	Km	0.7725	40800.00	31,518.00
14	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	10	167.46	1,674.60
15	Black paint (GIS Numbering & Zebra stripping)	Ltr	5	299.20	1,496.00
16	Polycarbonate Bird Guard	No	15	20.96	314.40
A	A. Sub total				95,329.54
B	B. Stock, Storage & Insurance @ 3% of A				2,859.89
C	Sub Total (C=A+B)				98,189.43
D	T&P @ 2% of C				1,963.79
E	Contingency @ 3% of C				2,945.68
F	Transportation @ 7.5% of C				7,364.21
		Erection Charges @ 20 % on poles			9,105.20
G	Erection Charges @ 10%				5,266.37
H	Total				1,24,834.68
17	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	2.1	6648.85	13,962.59
Total Material + Services Cost (J+K)					1,38,797.26
II	INSTALLATION OF 63 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	34153.68	68,307.36
7	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	102.00	5,850.72
8	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	102.00	404.41
10	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	102.00	4,369.68
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 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.711	102.00	582.52
13	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	102.00	4,369.68
14	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	102.00	1,180.14
15	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	102.00	1,177.08
11	Transformer base GI channel 100x50x6 mm channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	57.36	102.00	5,850.72
12	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	9.85	102.00	1,004.70
13	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	102.00	2,754.00
14	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	102.00	532.44
15	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	102.00	918.00
16	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	102.00	15,790.62
17	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	152486.81	1,52,486.81
18	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	24917.92	24,917.92
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2,762.00
20	4Cx95 sq. mm LT XLPE cable	Mtr	15	438.71	6,580.65
22	11 KV AB switch (200 Amp, 3 pole)	Set	1	9996.00	9,996.00
23	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8323.20	8,323.20
24	Wedge connector for 55 sq. mm conductor	EA	6	146.20	877.20
25	Polycarbonate Bird Guard	EA	6	20.96	125.76
26	11 KV Disc insulator polymer type 70 KN	No	3	1564.00	4,692.00
27	11 KV H/W fitting polymer type	Pair	3	476.00	1,428.00
28	11 KV LA (12KV,10 KA)station class-2	No	3	4828.00	14,484.00
29	11 KV Pin Insulator polymer type	No	3	272.00	816.00
30	HT Stay Set (Complete)	Set	2	1428.00	2,856.00
31	HT Stay Insulator	No.	2	68.00	136.00
32	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	170.00	340.00
33	7/10 SWG Stay Wire	KG	30	102.00	3,060.00
34	GI Pipe for earthing 40mm dia 3mtr long	No	7	1428.00	9,996.00
35	GI Nut, Bolt & washers of different sizes	Kg	25	106.08	2,652.00
36	GI barbed wire/Anticlimbing device	No	6	108.80	652.80
37	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	102.00	245.53
38	Danger plate	Kg	2	108.80	217.60
39	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	102.00	61.38
40	Name Plate	No	1	108.80	108.80
	Structure Numbering and marking				
41	Yellow colour paint for Background	Ltr	2	167.46	334.92
42	Black colour paint for numbering	Ltr	1	299.20	299.20
A				A. Sub total	3,62,224.23
B				B. Stock, Storage & Insurance @ 3% of A	10,866.73
C				Sub Total (C=A+B)	3,73,090.96
D				T&P @ 2% of C	6,988.67
E				Contingency @ 3% of C	11,192.73
F				Transportation @ 7.5% of C	27,981.82
G				Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%	11,370.90

H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				12,201.53
J	Total				4,42,826.61
45	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mt	0.9	6648.85	5,983.97
46	Couping Ratio 1:1:5:3(M-20 Grade) with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mt	0.226	6648.85	1,502.64
47	PCC ratio 1:3:6(M-10 Grade) For DSS Area (3.5X1.5X0.1)= 0.525 Cu. mtr.	Cu. Mt	1.5	5247.48	7,871.22
48	Fixing of stay set with 0.5 cum cement concret foundation 1:3:6 size (M-10 Grade)(900x 600x900 mm) using 40 mm BHG metal with all labour and material except stay wire, stay set,stay insulator.	No	2	2301.53	4,603.06
49	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	3784.73	26,493.11
48	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	15	47.87	718.05
52	Supply and Erection of GI fencing with Gate	q. Mt	16	3682.44	58,919.04
55	Supply of AL Lugs suitable for 95 sq mm cable/conductor, Crimping with cable and Fixing/connecting include supply and erection of PVC Tape as per voltage requirement.	EA	8	92.06	736.48
56	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 50-95sqmm including making hole in Base plate and dressing of cable along with vermin proofing properly .Supply to be done as per TPCODL Spec and approved make dowells.	EA	3	690.46	2,071.38
					1,08,898.95
				Sub total Rs	5,51,725.55
	Sub Total Rs.				7,11,813.44
	Cess @ 1%				7,118.13
	Total Estimated Cost				7,18,931.58
	Total Estimated Cost in Figures				7,18,932.00
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 I/C (Elect)

Sd/-
DGM Engg.(Elect.)