

**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 6-F TYPE QTRS. AT NAUGAON FIRE STATION IN THE DIST. OF JAGATSINGHPUR .

BID REF NO :- 105/PM/ELECT/OPHWC/2022-23

**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	Upgradation of 25 KVA S/S to 63 KVA S/S.				
1	Pole Clamp	No	14	99.20	1388.80
2	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	93.00	368.73
4	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	76.00	3255.84
5	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
6	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
7	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
8	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
9	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
10	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
11	Transformer base GI channel 100x50x6 mm channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	57.36	76.00	4359.36
12	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	9.8467	76.00	748.35
13	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00
14	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	76.00	396.72
15	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
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	93.00	14397.33
17	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	107260.00	107260.00

18	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	22719.28	22719.28
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
20	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7194.15
21	11 KV AB switch (200 Amp, 3 pole)	Set	1	9114.00	9114.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7588.80	7588.80
23	PG Clamp for 55 sq. mm AAAC	No	6	595.20	3571.20
24	11 KV Disc insulator polymer type 70 KN	No	3	1426.00	4278.00
25	11 KV H/W fitting polymer type	Pair	3	434.00	1302.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4402.00	13206.00
27	11 KV Pin Insulator polymer type	No	3	248.00	744.00
28	HT Stay Set (Complete)	Set	2	1302.00	2604.00
29	HT Stay Insulator	No.	2	62.00	124.00
30	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	155.00	310.00
31	7/10 SWG Stay Wire	KG	30	93.00	2790.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1302.00	9114.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	96.72	2418.00
34	GI barbed wire/Anticlimbing device	No	6	99.20	595.20
35	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	93.00	223.87
36	Danger plate	Kg	2	99.20	198.40
37	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	93.00	55.97
38	Name Plate	No	1	99.20	99.20
39	Structure Numbering and marking				
40	Yellow colour paint for Background	Ltr	2	272.80	545.60
41	Black colour paint for numbering	Ltr	1	272.80	272.80
A	A. Sub total				2,40,311.47
B	B. Stock, Storage & Insurance @ 3% of A				7,209.34
C	Sub Total (C=A+B)				2,47,520.81
D	T&P @ 2% of C				4,950.42
E	Contingency @ 3% of C				7,425.62
F	Transportation @ 7.5% of C				18,564.06
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				5,523.89
H	Erection Charges @ 10% for other materials				12,165.28
I	Total				2,96,150.08
42	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.75	6500.00	4,875.00
43	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
44	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
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00

46	DTR Plinth	No	1	25000.00	25,000.00
					1,14,275.00
				Sub total Rs	4,10,425.08
II	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.17 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	4	155.00	620.00
2	HT Stay Set (Complete)	Set	2	1302.00	2604.00
3	HT Stay Insulator	No.	2	62.00	124.00
4	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	93.00	2790.00
A	A. Sub total				6,138.00
B	B. Stock, Storage & Insurance @ 3% of A				184.14
C	Sub Total (C=A+B)				6,322.14
D	T&P @ 2% of C				126.44
E	Contingency @ 3% of C				189.66
F	Transportation @ 7.5% of C				474.16
		Erection Charges @ 5% on poles			
G	Erection Charges @ 10%				
H	Total				7,112.41
B	11 KV PIN POINTS WITH PSC				
1	9 Mtr Long 300 KG PSC Pole	No	1	3720.00	3720.00
2	PSC Pole V cross Arm Back clamp	No	1	99.20	99.20
3	11 KV V cross Arm (10.2 K.g. each)	No.	1	1,004.40	1004.40
4	Top bracket 100x50X6 mm GI channel (2kg each)	No.	1	186.00	186.00
5	Danger Plate	No	1	99.20	99.20
6	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	0.3	93.00	27.90
7	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	3	99.20	297.60
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	1.2	93.00	111.60
9	11 KV pin insulator polymer(Additional 3 Nos. for each support)	Set	3	248.00	744.00
10	Earthing of Support (Coil Type)	EA	1	205.84	205.84
11	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.26	93.00	24.18
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each) Cut Pole	Kg	1.45	96.72	140.24
13	55 sq. mm AAAC	Km	0.5253	37200.00	19541.16
14	Black Paint	Ltr	1	272.80	272.80
15	Yellow Colour Paint for Background	Ltr	2	272.80	545.60
A	A. Sub total				27,019.72
B	B. Stock, Storage & Insurance @ 3% of A				810.59
C	Sub Total (C=A+B)				27,830.32
D	T&P @ 2% of C				556.61
E	Contingency @ 3% of C				834.91
F	Transportation @ 7.5% of C				2,087.27
G		Erection Charges @ 20% on PSC poles			766.32

H	Erection Charges @ 10%				2,399.87
I	Total				34,475.30
16	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cu. Mtr	0.375	6500.00	2,437.50
	Total Material + Services Cost (J+K)				36,912.80
IV	Construction of LT Line using 4x50+1x50+1x16 sq. mm LT AB Cable- -0.18 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	3	3720.00	11,160.00
2	LT stay set complete	Set	2	644.80	1,289.60
3	7/12 SWG GI stay wire, Grade-2	Kg	24	93.00	2,232.00
4	LT stay clamp	Pair	2	136.40	272.80
5	LT stay set Insulator	No	2	37.20	74.40
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	5	248.00	1,240.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	3	74.40	223.20
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	3	80.60	241.80
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	1	421.60	421.60
11	3x50+1x35 sq. mm LT Aerial Bunched Cable	K.M	0.18	198020.00	35,643.60
12	Pipe Earthing(each 5 th Pole to Earth)	No	1	1302.00	1,302.00
13	Coil Earthing	No	2	205.84	411.68
14	No-8 GI wire (Dia-4.6mm)	Kg	0.788	93.00	73.28
15	Danger plate (LT)	No	3	99.20	297.60
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	0.9	93	83.70
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	9	99.2	892.80
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	3.61	93	335.73
19	GI Nut, Bolt & washers of different sizes	Kg	4	96.72	386.88
A	TOTAL MATERIAL COST (FOR-2020-21)				56,582.67
B	Stock, Storage & Insurance @ 3% of A				1,697.48
C	Sub Total (C=A+B)				58,280.15
D	Contingency @3% of C				1,748.40
E	T & P 2% of C				1,165.60
F	Transportation @ 7.5% of C				4,371.01
G	Erection Charges for PSC Pole @ 20%				2,298.96
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				4,145.96
J	Sub Total Rs.				72,010.09
Civil and Services Works (As per Technical Specification)					

20	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	2	2250	4500
21	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	1.125	6500.00	7,312.50
22	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	1	3700.00	3,700.00
K	Total Services Cost				15,512.50
	Total Material + Services Cost (J+K)				87,522.59
V	DISMANTALING OF 11 KV LINE,LINE DP,63 KVA DP,LT 3PH 4W				
1	Dismantaling of MS Channel and angle	Kg	330	7.92	2,613.60
2	Dismantaling of 11 KV HG Fuse	Set	1	250	250.00
3	Dismantaling of 11 KV 400 A AB switch	No	1	250	250.00
4	Dismantaling of 34/55 sq. mm AAA conductor	Mtr.	6.3	170	1,071.00
5	Dismantaling of 25 KVA, 11/0.4 KV Transformer	No	1	1500	1,500.00
	Total Rs.				5,684.60
	Total Estimated Cost				5,47,657.48
	Total Estimated Cost in Figures				5,47,657.00
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/-
Asst. Project Manager (Elect) (Hqr)

Sd/-
Project Manager(Elect.)