

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 :- 03 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-F TYPE QTRS. AT NUAGAON FIRE STATION IN THE DIST. OF NAYAGARH.

BID REF NO :- 93/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	11 KV LINE WITH 80 SQ. MM AAA CONDUCTOR-0.35 KM				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	4	26516.95	106067.80
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	183.552	76.00	13949.95
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	42.2912	93.00	3933.08
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	46.8075	76.00	3557.37
5	Danger Plate	No	4	99.20	396.80
6	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	1.2038	93.00	111.95
7	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	12	99.20	1190.40
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's =	Kg	4.8144	93.00	447.74
9	11 KV pin insulator polymer	Set	12	248.00	2976.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	24	434.00	10416.00
11	Disc insulator (B&S) 70 KN polymer	No.	24	1426.00	34224.00
12	Earthing of Support (Coil Type)	EA	4	205.84	823.36
13	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	1.048	93.00	97.46
14	PG Clamp for 80 sq.mm AAA conductor	No.	24	657.20	15772.80
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	8	155.00	1240.00
16	HT Stay Set (Complete)	Set	8	1302.00	10,416.00
17	HT Stay Insulator	No.	8	62.00	496.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	120	93.00	11,160.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each) Cut Pole	Kg	29.732	96.72	2875.68
20	Black Paint	K.g.	2	272.80	545.60
21	Yellow Colour Paint for Background	Ltr	8	272.80	2182.40
A	A. Sub total				2,22,880.40
B	B. Stock, Storage & Insurance @ 3% of A				6,686.41
C	Sub Total (C=A+B)				2,29,566.81

D				T&P @ 2% of C	4,591.34
E				Contingency @ 3% of C	6,887.00
F				Transportation @ 7.5% of C	17,217.51
				Erection Charges @ 5% on poles	5,462.49
G				Erection Charges @ 10%	9,630.56
H				Total	2,73,355.71
22	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 excvaton, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No	8	2250	18,000.00
23	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	1.8	6500.00	11,700.00
24	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.45	6500	2,925.00
				Total Material + Services Cost (J+K)	3,05,980.71
B	11 KV PIN POINTS WITH WPB				
1	WPB 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No.	3	26,516.95	79550.85
2	11 KV V cross Arm (10.2 K.g. each)	No.	3	1,004.40	3013.20
3	Top bracket 100x50X6 mm GI channel (2kg each)	No.	3	186.00	558.00
4	Danger Plate, 1 no's. for each pole	No.	3	99.20	297.60
5	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	0.9	93.00	83.70
6	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	9	99.20	892.80
7	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	3.61	93.00	335.73
8	11 KV pin insulator polymer, 3 Nos. required for each support	No.	9	248.00	2232.00
9	Earthing of Support (Coil Type)	No.	3	205.84	617.52
10	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	K.g.	0.79	93.00	73.47
11	GI Nut , Bolt & Washer of different sizes (1.45 Kg/ Pin Point)	K.g.	4.35	96.72	420.73
12	80 mm2 Insulated AAAC	K.M.	1.0815	53,320.00	57665.58
13	Crimping type Midspan Compression Joint for 55 sq.mm AAA conductor	EA	0	267.48	0.00
14	Black Paint	Ltr	3	272.80	818.40
15	Yellow Colour Paint for Background	Ltr	6	272.80	1636.80
A				A. Sub total	1,48,196.38
B				B. Stock, Storage & Insurance @ 3% of A	4,445.89
C				Sub Total (C=A+B)	1,52,642.27
D				T&P @ 2% of C	3,052.85
E				Contingency @ 3% of C	4,579.27
F				Transportation @ 7.5% of C	11,448.17
				Erection Charges @ 5% on poles	4,096.87

G	Erection Charges @ 10%				7,070.49
H	Total				1,82,889.92
16	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	1.35	6500.00	8,775.00
17	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.3375	6500	2,193.75
	Total Material + Services Cost (J+K)				1,93,858.67
II	Installation of 1 No. 63 KVA S/S.				
Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
1	WPB 160x152 (11Mtr. Long, 30.44KG/Mtr.)(GI)	No	2	26516.95	53,033.90
2	Top Channel GI 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	76.00	4,359.36
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	Kg	3.9648	93.00	368.73
4	M.U Channel GI 75x40x4.8 mm (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	42.84	76.00	3,255.84
5	AB Switch Mounting Channel 75x40x4.8 mm GI Channel (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	42.84	76.00	3,255.84
6	AB Switch Side Support Channel 100X50X6mm,9.56 KG/Mtr., each channel length 0.35 mtr., 2 no's channel required =(9.56x2x0.35)	Kg	6.69	76.00	508.44
7	Channel Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each channel length 0.8 Mtr., 1 no's channel required =(7.14x0.8x1)	Kg	5.7119	76.00	434.10
8	HG/ DO Fuse Mounting Channel 75x40x4.8 mm GI Channel (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	42.84	76.00	3,255.84
9	Cantilever Support Channel 75x40x4.8 mm GI Channel (810 mm long,2 No's.) (7.14Kg./Mtr., 2 No's.) (Each 2x0.810x7.14= 11.57 Kg)	Kg	11.57	76.00	879.32
10	Cantilever Support Angle 50 X 50 X 6MM GI (1282 mm long) (4.5Kg./Mtr, 2 No's.) (Each 2x1.282x4.5= 11.54Kg)	Kg	11.538	76.00	876.89
11	Transformer Base GI Channel 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	76.00	4,359.36
12	Transformer Base Support GI Channel 100 X 50 X 6 MM (515 mm long) (9.56Kg./Mtr, 2 No's) (Each 2x0.515x9.56= 9.85Kg)	Kg	9.85	76.00	748.60
13	Transformer Belting Angle 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	27	76.00	2,052.00
14	Transformer Belting Support Angle 50 X 50 X 6MM GI (580 mm long)(4.5Kg./Mtr,2 No's) (Each 2x0.580x4.5= Kg)	Kg	5.22	76.00	396.72
15	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	76.00	684.00

17	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For LA and 2.5 mtr. For raising, 11 mtr for AB switch, 2.8 mtr for HG Fuse, 5x2 mtr. for DTR Nutral, (1.3+4.5) mtr. For DTR Body, 0.500 mtr for LTDB & AB Switch operating handle, 3 mtr. for Fencing) (Each 65.6x 2.36= 154.81 Kg)	Kg	154.82	93.00	14,398.26
18	63 KVA , 11/ 0.4 KV (AL) Transformer BIS Energy level II	No	1	107260.00	1,07,260.00
19	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 63 KVA S/S	Set	1	22719.28	22,719.28
20	55mm ² All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2,762.00
21	4 Cx 95 mm ² LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	Mtr.	15	479.61	7,194.15
22	AB Switch(11KV,200A.3pole,50Hz)	Set	1	9114.00	9,114.00
23	H.G.Fuse(11KV.200A.3Pole)	Set	1	7588.00	7,588.00
24	PG Clamp for 55 sq.mm AAA conductor	No	6	595.20	3,571.20
26	Disc insulator (B&S)70 KN polymer	No	3	1426.00	4,278.00
27	H W fitting (B&S)70KN(3bolted)	Set	3	434.00	1,302.00
28	Lightning Arrester(12KV,10KA) Station Class 2	Nos.	3	4402.00	13,206.00
25	11KV pin insulator polymer	No	3	248.00	744.00
29	HT stay set complete	Set	2	1302.00	2,604.00
30	HT stay Clamp (1.9Kg/pair)	Pair	2	155.00	310.00
31	HT stay insulator TYPE-C	No	2	62.00	124.00
32	7/10 SWG GI stay wire, Grade -2 (15Kg./ Set)	Kg	30	93.00	2,790.00
33	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 mtr .Long	No	7	1302.00	9,114.00
34	GI Nuts & Bolts of Assorted size (25 Kg/ DSS DP)	Kg	25	96.72	2,418.00
35	GI Barbed wire/Anticlimbing device (3Kg /Pole)	Kg	6	99.20	595.20
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's =	Kg	2.4072	93.00	223.87
36	Danger plate 11kv	No	2	99.20	198.40
5	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	0.6018	93.00	55.97
37	Name plate	No	1	99.20	99.20
38	Yellow colour paint for Background	Ltr	2	272.80	545.60
39	Black colour paint for numbering	Ltr	1	272.80	272.80
A	A. Sub total				2,91,956.87
B	B. Stock, Storage & Insurance @ 3% of A				8,758.71
C	Sub Total (C=A+B)				3,00,715.57
D	T&P @ 2% of C				6,014.31
E	Contingency @ 3% of C				9,021.47
F	Transportation @ 7.5% of C				22,553.67
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				8,255.14
H	Erection Charges @ 10% for other materials				12,022.27
I	Total				3,58,582.43
40	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
41	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1,469.00

42	Fixing of stay set with 0.5 cum cement concrete 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
43	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 Boundary wall fencing with Gate	Sq. Mtr.	15	4200.00	63,000.00
					1,00,719.00
				Sub total Rs	4,59,301.43
III	Construction of LT Line using 3x50+1x35+1x16 sq. mm LT AB Cable- -450 Mtr.				
1	9 Mtr Long 300 KG PSC Pole	No	6	3720.00	22,320.00
2	LT stay set complete	Set	4	644.80	2,579.20
3	7/12 SWG GI stay wire, Grade-2	Kg	48	93.00	4,464.00
4	LT stay clamp	Pair	4	136.40	545.60
5	LT stay set Insulator	No	4	37.20	148.80
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	6	248.00	1,488.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	8	74.40	595.20
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	8	80.60	644.80
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No		421.60	-
11	3x50+1x35+1x16 sq. mm LT Aerial Bunched Cable	K.M	0.4725	173600.00	82,026.00
	Insulated Piercing connector Type-C Main 16 to 95 sq. mm & Tap1.5 to 16 sq. mm	No	10	40.06	400.60
12	Pipe Earthing(each 5 th Pole to Earth)	No	1	1302.00	1,302.00
13	Coil Earthing	No	5	205.84	1,029.20
14	No-8 GI wire (Dia-4.6mm)	Kg	1.572	93.00	146.20
15	Danger plate (LT)	No	6	99.20	595.20
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	1.8053	93.00	167.89
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	18	99.2	1785.60
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	7.221	93	671.55
19	GI Nut, Bolt & washers of different sizes	Kg	3	96.72	290.16
20	Yellow colour paint for Background	Ltr	6	272.80	1,636.80
21	Black colour paint for numbering	Ltr	12	272.80	3,273.60
A	TOTAL MATERIAL COST (FOR-2020-21)				1,26,110.40
B	Stock, Storage & Insurance @ 3% of A				3,783.31
C	Sub Total (C=A+B)				1,29,893.71
D	Contingency @3% of C				3,896.81
E	T & P 2% of C				2,597.87
F	Transportation @ 7.5% of C				9,742.03
G	Erection Charges for PSC Pole @ 20%				4,597.92
H	Erection Charges of DTR and Joist Poles @ 5%				-
I	Erection Charges of other @ 10%				9,759.34
J	Sub Total Rs.				1,60,487.69

Civil and Services Works (As per Technical Specification)					
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	4	2250	9000
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	2.25	6500.00	14,625.00
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	1	3700.00	3,700.00
K	Total Services Cost				27,325.00
L	Total Material + Services Cost (J+K)				1,87,812.69
	Labour charges for Dismantalling of materials(Detail as per TPCODL estimate)				25,854.00
	Sub Total Rs.				11,72,807.50
	Cess @1%				11,728.07
	Total Estimated Cost				11,84,535.57
	Total Estimated Cost in Figures				11,84,536.00
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.)