

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 SADAR POLICE STATION IN THE DISTRICT OF ANGUL.

BID REF NO :- 79/PM/ELECT/OPHWC/2023-24

**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	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.04 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.) as strut pole	No	1	29661.00	29661.00
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	76.00	1743.74
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.2864	97.50	515.42
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	76.00	444.65
5	H W fitting(B&S) 70KN, 3Bolt	No.	3	455.00	1365.00
6	Disc insulator (B&S) 70 KN polymer	No.	3	1495.00	4485.00
7	PG Clamp for 55 sq. mm AAAC	No	3	624.00	1872.00
8	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
9	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.7165	101.40	376.85
A	A. Sub total				40,788.68
B	B. Stock, Storage & Insurance @ 3% of A				1,223.66
C	Sub Total (C=A+B)				42,012.34
D	T&P @ 2% of C				840.25
E	Contingency @ 3% of C				1,260.37
F	Transportation @ 7.5% of C				3,150.93
	Erection Charges @ 5% on poles				1,527.54
G	Erection Charges @ 10%				1,112.68
H	Total				49,904.10
10	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.45	6500.00	2925.00

	Total Material + Services Cost (J+K)				52,829.10
B	11 KV PIN POINTS				
1	55 sq. mm AAAC	Km	0.12	39000.00	4820.40
A	A. Sub total				4,820.40
B	B. Stock, Storage & Insurance @ 3% of A				144.61
C	Sub Total (C=A+B)				4,965.01
D	T&P @ 2% of C				99.30
E	Contingency @ 3% of C				148.95
F	Transportation @ 7.5% of C				372.38
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				496.50
H	Total				6,082.14
	Total Material + Services Cost (J+K)				6,082.14
II	INSTALLATION OF 63 KVA S/S.				
1	PSC POLE 9 Mtr. Long 300 KG(For DSS DP)	No	2	3900.00	7800.00
2	Pole clamp	No	14	104.00	1,456.00
3	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
4	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
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	9.85	76.00	748.60
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	97.50	15093.98
17	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00

18	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	23818.60	23818.60
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	9555.00	9555.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
23	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
24	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
25	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
27	11 KV Pin Insulator polymer type	No	3	260.00	780.00
28	HT Stay Set (Complete)	Set	2	1365.00	2730.00
29	HT Stay Insulator	No.	2	65.00	130.00
30	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
31	7/10 SWG Stay Wire	KG	30	97.50	2925.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
34	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
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	97.50	234.70
36	Danger plate	Kg	2	104.00	208.00
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	97.50	58.68
38	Name Plate	No	1	104.00	104.00
	Structure Numbering and marking				
39	Yellow colour paint for Background	Ltr	2	216.00	432.00
40	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				254,649.23
B	B. Stock, Storage & Insurance @ 3% of A				7,639.48
C	Sub Total (C=A+B)				262,288.70
D	T&P @ 2% of C				5,245.77
E	Contigency @ 3% of C				7,868.66
F	Transportation @ 7.5% of C				19,671.65
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				5,791.18
H	Erection Charges @ 20% on PSC Poles				1,606.80
I	Erection Charges @ 10% for other materials				12,229.63
J	Total				314,702.40
41	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.75	6500.00	4,875.00
42	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

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
44	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	50	46.80	2,340.00
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					91,615.00
				Sub total Rs	406,317.40
III	Construction of LT Line using 4Cx25 sq. mm Armoured aluminium cable- XLPE insulated - -0.14 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	4	3900.00	15,600.00
2	LT stay set complete	Set	3	676.00	2,028.00
3	7/12 SWG GI stay wire, Grade-2	Kg	36	97.50	3,510.00
4	LT stay clamp	Pair	3	143.00	429.00
5	LT stay set Insulator	No	3	39.00	117.00
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	7	260.00	1,820.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	7	78.00	546.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	6	84.50	507.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	1	442.00	442.00
11	4Cx25 sq. mm Armoured aluminium cable- XLPE insulated	Mtr	147	159.61	23,462.67
12	4 way service Distribution Box with kitkat fuse and aluminium Busbar	No	1	2873.00	2,873.00
13	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	3	113.08	339.24
13	GI Pipe for earthing (each 5th pole to earth)	No	1	1365.00	1,365.00
14	Coil Earthing	No	3	215.80	647.40
15	No-8 GI wire (Dia-4.6mm)	Kg	1.048	97.50	102.18
16	Danger plate (LT)	No	4	104.00	416.00
17	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	1.203	97.5	117.29
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	12	104	1248.00
19	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	4.8143	97.5	469.39
20	GI Nut, Bolt & washers of different sizes	Kg	2	101.40	202.80
21	Yellow colour paint for Background	Ltr	8	216.00	1,728.00
22	Black colour paint for numbering	Ltr	4	286.00	1,144.00
A	A. Sub total				59,113.98
B	Stock, Storage & Insurance @ 3% of A				1,773.42
C	Sub Total (C=A+B)				60,887.40
D	Contingency @3% of C				1,826.62
E	T & P 2% of C				1,147.85
F	Transportation @ 7.5% of C				4,566.55
G	Erection Charges for PSC Pole @ 20%				3,213.60

H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				3,714.70
J	Sub Total Rs.				75,356.72
Civil and Services Works (As per Technical Specification)					
23	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	3	2250	6750
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	1.5	6500.00	9,750.00
25	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				20,200.00
	Total Material + Services Cost (J+K)				95,556.72
	Total Estimated Cost				560,785.36
	Total Estimated Cost in Figures				560,785.00
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.)