

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 :- 04 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-F TYPE STAFF QTRS. AT SUB-JAIL, 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	INSTALLATION OF 100 KVA ,11/0.4 KV PLINTH MOUNTED TRANSFORMER ON EXISTING S/S-INO				
1	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
2	100 KVA , 11/ 0.4 KV (AL) Transformer BIS Energy level II	No	1	145080.00	1,45,080.00
3	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 100 KVA S/S	No	1	30279.56	30,279.56
4	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2,762.00
5	4Cx150 sq. mm LT XLPE cable	Mtr	15	732.12	10,981.80
6	11 KV AB switch (200 Amp, 3 pole)	Set	1	9114.00	9,114.00
7	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7588.80	7,588.80
8	PG Clamp for 55 sq. mm AAAC	No	6	595.20	3,571.20
9	11 KV LA (12KV,10 KA)(station class, class-2)	Nos.	3	4402.00	13,206.00
10	40mm Nominal bore GI pipe (medium gauge)earthing device with 3mtr long	No	3	1302.00	3,906.00
11	GI Nut, Bolt & washers of different sizes	Kg	10	96.72	967.20
12	GI barbed wire/Anticlimbing device 3 kg per support	Kg	6	99.20	595.20
13	Back clamp for anticlimbing Device 25x3 mm flat,0.59 Kg/Mtr.,flat of 0.510 Mtr. Length 8 Nos.	Kg	2.4072	93.00	223.87
14	Danger plate	No	2	99.20	198.40
15	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's (Each 2x0.59x0.510)	Kg	0.6018	93.00	55.97
16	Name Plate	No	1	99.20	99.20
17	Structure Numbering and marking				-
18	Yellow colour paint for Background	Ltr	2	272.80	545.60
19	Black colour paint for numbering	Ltr	1	272.80	272.80
A	A. Sub total				2,30,131.60
B	B. Stock, Storage & Insurance @ 3% of A				6,903.95
C	Sub Total (C=A+B)				2,37,035.54
D	T&P @ 2% of C				4,740.71
E	Contingency @ 3% of C				7,111.07
F	Transportation @ 7.5% of C				17,777.67
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				7,471.62
H	Erection Charges @ 10% for other materials				8,358.00
I	Total				2,82,494.61

20	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	3	3700.00	11,100.00
21	DTR Plinth	No	1	25000.00	25,000.00
22	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					90,100.00
				Sub total Rs	3,72,594.61
II	11 KV ISOLATING DP OVER 11 MTR. LONG 160X152 MM WPB POLE-1 NO.				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53,033.90
2	Top channel GI 100x50x6 mm (9.56 kg/Mtr.,4 Nos.)Each channel length 1.2 Mtr.,4 Nos. channel required(4x9.56x3)	Kg	57.36	76.00	4,359.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	93.00	368.73
4	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84
5	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.692	76.00	508.59
6	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)	Kg	5.712	76.00	434.11
7	Double pole belting channel 75x40x4.8 mm GI 7.14 Kg/Mtr.channel length (3000 mm Long)4 Nos. required	Kg	85.68	76.00	6,511.68
8	50x50x6 mm GI bracing angle, 4.5 Kg/mtr., each angle length 3.512 Mtr.,4 Nos. required	Kg	63.216	76.00	4,804.42
9	Danger plate	No	2	99.20	198.40
10	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's (Each 2x0.59x0.510)	Kg	0.6018	93.00	55.97
11	HT stay set complete	Set	2	1302.00	2,604.00
12	HT stay Clamp (1.9Kg/pair)	Pair	2	155.00	310.00
13	HT stay insulator TYPE-C	No	2	62.00	124.00
14	7/10 SWG GI stay wire, Grade -2 (15Kg/ Set)	Kg	30	93.00	2,790.00
15	40mm Nominal bore GI pipe (medium gauge)earthing device with 3mtr long	No	2	1302.00	2,604.00
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	48.38	93.00	4,499.34
17	GI barbed wire/Anticlimbing device	Kg	6	99.20	595.20
18	Back clamp for anticlimbing Device 25x3 mm flat,0.59 Kg/Mtr.,flat of 0.510 Mtr. Length 8 Nos.	Kg	2.4072	93.00	223.87
19	11 KV LA (12KV,10 KA)(station class, class-2)	Nos.	3	4402.00	13,206.00
20	11 KV AB switch (400 Amp, 3 pole)	Set	1	14694.00	14,694.00
21	11 KV Pin insulator Polymer	No	3	248.00	744.00
22	H W fitting(B&S) 70KN, 3Bolt	No.	6	434.00	2604.00
23	Disc insulator (B&S) 70 KN polymer	No.	6	1426.00	8556.00
24	PG Clamp for 80 sq. mm AAAC	No	6	657.20	3,943.20
25	GI Nut, Bolt & washers of different sizes	Kg	13.718	96.72	1,326.80
26	Black colour paint for numbering	Ltr	1	272.80	272.80
27	Yellow colour paint for Background	Ltr	2	272.80	545.60
A				A. Sub total	1,33,173.81
B				B. Stock, Storage & Insurance @ 3% of A	3,995.21
C				Sub Total (C=A+B)	1,37,169.02
D				T&P @ 2% of C	2,743.38
E				Contingency @ 3% of C	4,115.07
F				Transportation @ 7.5% of C	10,287.68
G				Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%	2,731.25

H	Erection Charges @ 10% for other materials				7,385.91
I	Total				1,64,432.31
28	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 (Excavation of earth will be done of size 500X500X1500 mm.)	No	2	2250	4,500.00
29	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
30	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.225	6500.00	1,462.50
31	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	2	3700.00	7,400.00
					19,212.50
				Sub total Rs	1,83,644.81
III	Construction of LT Line using 3x50+1x35+1x16 sq. mm LT AB Cable- -0.7 Km				
1	9 Mtr Long 300 KG PSC Pole	No	21	3720.00	78,120.00
2	LT stay set complete	Set	3	644.80	1,934.40
3	7/12 SWG GI stay wire, Grade-2	Kg	36	93.00	3,348.00
4	LT stay clamp	Pair	3	136.40	409.20
5	LT stay set Insulator	No	3	37.20	111.60
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	22	248.00	5,456.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	22	74.40	1,636.80
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	80.60	161.20
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	20	421.60	8,432.00
11	3x50+1x35+1x16 sq. mm LT Aerial Bunched Cable	K.M	0.735	173600.00	1,27,596.00
12	Insulated piercing connector type-D-main 10 to 50 sq. mm & Tap -1.5 to 10 sq. mm	No	10	34.21	342.10
13	Pipe Earthing(each 5 th Pole to Earth)	No	4	1302.00	5,208.00
14	Coil Earthing	No	17	205.84	3,499.28
15	No-8 GI wire (Dia-4.6mm)	Kg	5.502	93.00	511.69
16	Danger plate (LT)	No	21	99.20	2,083.20

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	6.32	93	587.76
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	63	99.2	6249.60
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	25.28	93	2351.04
20	GI Nut, Bolt & washers of different sizes	Kg	10.5	96.72	1,015.56
21	Yellow colour paint for Background	Ltr	42	272.80	11,457.60
22	Black colour paint for numbering	Ltr	21	272.80	5,728.80
A	TOTAL MATERIAL COST (FOR-2020-21)				2,66,239.83
B	Stock, Storage & Insurance @ 3% of A				7,987.19
C	Sub Total (C=A+B)				2,74,227.02
D	Contingency @3% of C				8,226.81
E	T & P 2% of C				5,484.54
F	Transportation @ 7.5% of C				20,567.03
G	Erection Charges for PSC Pole @ 20%				16,092.72
H	Erection Charges for Joist Poles @ 5%				-
I	Erection Charges of other @ 10%				18,242.44
J	Sub Total Rs.				3,42,840.56
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	3	2250	6750.00
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	7.875	6500.00	51,187.50
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	4	3700.00	14,800.00
K	Total Services Cost				72,737.50
L	Total Material + Services Cost (J+K)				4,15,578.06
	Total Estimated Cost				9,71,817.48
	Total Estimated Cost in Figures				9,71,817.00
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.)