

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 :- 01 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO BSF CAMP AT KUMBHIKHARI IN THE DISTRICT KORAPUT .

BID REF NO.- 86/PM/ELECT/OPHWC/2022-23

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS. 2022-23	AMOUNT IN RS.
SCHEDULE OF WORKS					
PART-I	3 phase 3W 11 KV line with 55 sq. mm AAAC-0.07 Km				
1	160x160 mm WPB Pole 11 Mtr. Long(30.44 Kg/Mtr.)GI	No	1	31140.12	31140.12
2	GI Base plate for support (500x500x100)mm	No	1	1860.00	1860.00
3	Earthing device coil type	No	1	205.84	205.84
4	11 KV 'V' cross arm(10.2 Kg each)	No.	1	1004.40	1004.40
5	GI Back clamp for V Cross Arm	No.	1	99.20	99.20
6	11 KV F Clamp 2.9 Kg each	No.	1	297.60	297.60
7	11KV Pin Insulator polymer	No.	3	248.00	744.00
8	11KV Disc insulator 45 KN polymer B&S type	No.	3	1066.40	3199.20
9	11KV H.W Fittings B&S 2 bolted	No.	3	322.40	967.20
10	100x50x6 mm MS Channel for stright cross Arm 1.2 mtr. Cut point 2 Nos. 0.3 Mtr. Top bracket	Kg	27.6	93.00	2566.80
11	HT stay set complete	No.	1	1302.00	1302.00
12	11KV stay insulator	No.	1	62.00	62.00
13	HT stay clamp	pair	1	155.00	155.00
14	7/10 SWG stay wire, Grade-2	Kg	10	93.00	930.00
15	GI Nuts and Bolts of assorted size	Kg	5	96.72	483.60
16	55 sq. mm AAAC	Km	0.2163	37200.00	8046.36
17	Danger Board	No	1	99.20	99.20
18	GI Barbed wire (Anti climbing device @ 3 Kg per support)	K.g	3	99.20	297.60
19	PG clamp for 55 sq. mm AAAC	No	3	595.20	1785.60
20	Sundries (Aluminium binding tap,insulating tap, paint)	LS	1	500.00	500.00
A.Sub Total Rs.					55,745.72
PART-II	Installation of 63 KVA 11/0.4KV sub station using 9 mtr. Long 300 KG PSC Pole - 1 No.				
1	160x160 mm WPB Pole 11 Mtr. Long(30.44 Kg/Mtr.)GI	No	2	31140.12	62280.24
2	Pressure Channel 100x50x6mm each 2.8 mtr long(9.2K.g/mtr)x 2 Nos.	K.g	51.52	93.00	4791.36

3	Transformer mounting Channel 100x50x6mm each 2.8 mtr long(9.2K.g/mtr)x 2 Nos.	K.g	51.52	93.00	4791.36
4	AB switch &HG fuse mounting channel(75x40x6)mm,GI channel each 2.8mtr long 4 No(6.8Kg/mtr)	K.g	76.16	93.00	7082.88
5	Transformer belting 50x50x6mm angle 2.8 mtr long(4.5K.g/mtr)x2Nos.	K.g	31.5	93.00	2929.50
6	Angle for mounting LT distribution Box 50x50x6 mm 10 Mtr. Long 2 Nos.	K.g	9	93.00	837.00
7	11KV Disc insulator 45 KN polymer B&S type	No	3	1066.40	3199.20
8	11KV H.W Fittings B&S 2 bolted	No.	3	322.40	967.20
11	11KV AB switch 3 pole(200 Amp)	Set	1	9114.00	9114.00
12	11KV HG fuse 3 pole(200 Amp)	Set	1	7588.80	7588.80
13	11 KV LA	No.	3	1240.00	3720.00
9	LT Distribution Box with MCCB, Aluminium Bus Bar for single bay with Kitkat fuse for 63 KVA S/S	No	1	22719.28	22719.28
10	HT stay set (Complete)	No.	4	1302.00	5208.00
11	stay Insulator	No.	4	62.00	248.00
12	Stay clamp(1.9 Kg/pair)	pair	4	155.00	620.00
13	7/10 SWG GI Saty wire, Grade-2	Kg	40	93.00	3720.00
14	40 mm Nominal bore GI Pipe Medium gauge earthing device 3 mtrs long	No	5	1302.00	6510.00
15	Earthing device coil type	No	2	205.84	411.68
16	GI Flat 25x4 mm(Neutral)	Kg	10	93.00	930.00
17	GI Flat 25x6 mm	Kg	40	93.00	3720.00
18	GI Nuts and Bolts of assorted size	Kg	25	96.72	2418.00
19	63 KVA ,11/0.4 Kv (AL) Transformer BIS Energy Level-II	No	1	107260.00	107260.00
20	LT 1 core 95 sq. mm LT XLPE cable	Mtr.	60	182.28	10936.80
21	GI Base plate for support (500x500x10)mm	No	2	1860.00	3720.00
22	55 sq. mm AAAC for jumpering	Km	0.05	37200.00	1860.00
23	GI Barbed wire (Anti climbing device @ 3 Kg per support)	Kg	6	99.20	595.20
24	PG clamp for 55 sq. mm AAAC	No	3	595.20	1785.60
25	Danger Board	No	2	99.20	198.40
26	Sundries	LS	1	1000.00	1000.00
Sub Total Rs.					281162.50
PART-III Construction of LT 3ph 4W line using 3x50+1x35 sqmm XLPE AB Cable=1.35 Km					
1	9 Mtr. Long 100x116 mm GI Joist Pole(23.0/Kg/Mtr.)	No	39	19251.00	750789.00
2	GI Base plate for support (500x500x10)mm	No	39	1860.00	72540.00
3	Earthing device coil type	No	39	205.84	8027.76
4	L.T Stay set (Complete)	Set	12	644.80	7737.60
5	L.T Stay Insulator	No.	12	37.20	446.40
6	L.T Stay Clamp(1.4 K.g/Pair)Si 446	Pair	12	136.40	1636.80
7	7/12 SWG Stay Wire Grade-2	Kg	96	93.00	8928.00
8	GI Nuts ,Bolts & washer	Kg	20	96.72	1934.40
9	3x50+1x35+1x16 sqmm XLPE AB Cable	Km	1.42	173600.00	246078.00
10	Suspension clamp with I Hook for ABC	No.	27	421.60	11383.20
11	Dead end clamp with I Hook	No.	23	155.00	3565.00
12	Pole clamp for I Hook	No	50	248.00	12400.00
13	Sundries	LS	1	1500.00	1500.00
Sub Total Rs.					1126966.16

IV	Construction of 11 KV line DP with AB switch(400 A) -1 No.				
1	160x160 mm WPB Pole 11 Mtr. Long(30.44 Kg/Mtr.)GI	No	2	31140.12	62280.24
2	Pressure Channel 100x50x6mm each 2.8 mtr long(9.2K.g/mtr)x 2 Nos.	Kg	51.52	93.00	4791.36
3	AB switch Mounting Channel (75x40x6)-2.8mtr long 4 nos(6.8 k.g per mtr)	Kg	51.52	93.00	4791.36
4	Bracing Channel 75x40x6 mm,(2.8 Mx2pc)(9.2 Kg/Mtr.)	Kg	76.16	93.00	7082.88
5	Angle for Bracing Channel 50x50x6 mm,(3 Mtr. Long 2 Nos.(4.5 Kg/Mtr.) for DP	Kg	31.5	93.00	2929.5
6	11KV Disc insulator 45 KN polymer B&S type	No.	6	1066.40	6398.4
7	11KV H.W Fittings B&S 2 bolted	No.	6	322.40	1934.4
8	11KV AB switch 3 pole(400 Amp)	Set	1	14694.00	14694
9	HT stay set (Complete)	No.	2	1302.00	2604
10	stay Insulator	No.	2	62.00	124
11	Stay clamp	pair	2	155.00	310
12	7/10 SWG GI Saty wire	Kg	20	93.00	1860
13	GI Pipe earthing 40 Dia Medium gauge 2.5 mtrs long	No.	2	1302.00	2604
14	No. 6 GI wire for earthing	Kg	20	93.00	1860
15	PG clamp for 55 sq. mm AAAC	No	6	595.20	3571.20
16	Earthing device coil type	No	2	205.84	411.68
17	Danger Board	No.	2	99.20	198.4
18	GI Barbed wire (Anti climbing device @ 3 Kg per support)	Kg	6	99.20	595.2
19	GI Nuts and Bolts & washers	Kg	10	96.72	967.2
20	GI Base plate for support (500x500x10)mm	No	2	1860.00	3720
21	Sundries	No	1	1000.00	1000
	Sub Total Rs.				124727.82
A	TOTAL MATERIAL COST IN RS.				1588602.20
B	Stock,storage and insurance (@3% on A)				47658.07
C	TOTAL RS.				1636260.27
D	T&P @ 2% of C				32725.21
E	Contingency @ 3% of C				49087.81
F	Transportation @ 7.5% of C				122719.52
G	Erection charges @ 10% on others ,5% on Dist. Transformers and 20% on PSC poles				111417.92
H	TOTAL RS.				19,52,210.72
28	Cement Concreting for stay anchor plate CC 1:3:6 using 4 cm size hard granite metal= 0.45Mtrx 0.45Mtrx1.5 mtr= 0.3 cum(HT Line)	Nos.	19	1270.00	24130.00
29	Cement Concreting of support with 1:3:6 using 4cm size Hard granite metal= 0.45Mtr.x 0.45Mtrx1.5 mtr= 0.3 cum	Nos.	44	1270.00	55880.00
30	Padding/concreting of materials	Nos.	44	190.00	8360.00
31	Materials for massonary work for eathpit, charcoal,salt & RCC cover etc.	No	7	1600.00	11200.00
32	Fencing & Sand Filling & metal spreading(details specification as per estimate)	Ls	1	16796.00	16796.00
					20,68,576.72
V	Construction of 11 KV line DP structure P/S to BSF Camp Kumbhikhari -1 No.				

1	160x160 mm WPB Pole 11 Mtr. Long(30.44 Kg/Mtr.)GI	No	2	31140.12	62280.24
2	Pressure Channel 100x50x6mm each 2.8 mtr long(9.2K.g/mtr)x 2 Nos.	Kg	51.52	93.00	4791.36
4	Bracing Channel 100x50x6 mm,(2.8 Mx2pc)(9.2 Kg/Mtr.)	Kg	103.04	93.00	9582.72
4	Middle Channel 75x40x6 mm,(2.8 Mx2pc)(9.2 Kg/Mtr.)	Kg	34.72	93.00	3228.96
5	Bracing 50x50x6 mm,(3 Mtr. Long 2 Nos.(4.5 Kg/Mtr.) for DP	Kg	40.5	93.00	3766.5
	11 KV pin insulator Polymer	No	3	248.00	744
7	11KV Disc insulator 45 KN polymer B&S type	No.	6	1066.40	6398.4
8	11KV H.W Fittings B&S 2 bolted	No.	6	322.40	1934.4
11	HT stay set (Complete)	No.	4	1302.00	5208
12	stay Insulator	No.	4	62.00	248
13	Stay clamp	pair	4	155.00	620
14	7/10 SWG GI Saty wire	Kg	40	93.00	3720
3	Earthing device coil type	No	2	205.84	411.68
18	GI Nuts and Bolts & washers	Kg	15	96.72	1450.8
5	GI Base plate for support (500x500x10)mm	No	2	1860.00	3720
25	GI Barbed wire (Anti climbing device @ 3 Kg per support)	Kg	6	99.20	595.2
22	55 sq. mm AAAC for jumpering	Km	0.05	37200.00	1860.00
16	Danger Board	No.	2	99.20	198.4
19	Sundries	No	1	500.00	500
					111258.66
				FOR 3 NOS. DP STRUCTURE	333775.98
VI	Shifting of 11 KV Line-0.49 Km.				
1	160x160 mm WPB Pole 11 Mtr. Long(30.44 Kg/Mtr.)GI	No	7	31140.12	217980.84
2	GI Base plate for support (500x500x100)mm	No	7	1860.00	13020.00
3	Earthing device coil type	No	7	205.84	1440.88
4	11 KV 'V' cross arm(10.2 Kg each)	No.	4	1004.40	4017.60
5	GI Back clamp for V Cross Arm	No.	4	99.20	396.80
6	11 KV F Clamp 2.9 Kg each	No.	4	297.60	1190.40
7	11KV Pin Insulator polymer	No.	21	248.00	5208.00
8	11KV Disc insulator 45 KN polymer B&S type	No.	18	1066.40	19195.20
9	11KV H.W Fittings B&S 2 bolted	No.	18	322.40	5803.20
10	100x50x6 mm Channel for stright cross Arm 1.2 mtr. Cut point 2 Nos. 0.3 Mtr. Top bracket	Kg	149.04	93.00	13860.72
11	75x40x6 mm Channel for guarding	Kg	81.6	93.00	7588.80
12	I Hook for guarding	No	4	74.40	297.60
13	HT stay set complete	No.	6	1302.00	7812.00
14	11KV stay insulator	No.	6	62.00	372.00
15	HT stay clamp	pair	6	155.00	930.00
16	7/10 SWG stay wire, Grade-2	Kg	60	93.00	5580.00
17	GI Nuts and Bolts of assorted size	Kg	20	96.72	1934.40
18	55 sq. mm AAAC	Km	1.5141	37200.00	56324.52
19	No. 6 GI wire(dia 4.8 mm)	Kg	40	93.00	3720.00
20	GI Pipe earthing 40 Dia Medium gauge 2.5 mtrs long	No.	2	1302.00	2604
21	No. 6 GI wire for earthing	Kg	20	93.00	1860
22	Danger Board	No.	7	99.20	694.4

23	GI Barbed wire (Anti climbing device @ 3 Kg per support)	K.g	21	99.20	2083.20
24	PG clamp for 55 sq. mm AAAC	No	18	595.20	10713.60
25	Sundries (Aluminium binding tap,insulating tap, paint)	LS	1	1000.00	1000.00
Sub Total Rs.					3,85,628.16
A	TOTAL MATERIAL COST IN RS.				719404.14
B.Deduction of Salvage Value @8 %					57,552.33
C. Total Material cost after deducting Salvage Value @8%					6,61,851.81
D. Stock, Storage & Insurance @ 3% of C					19,855.55
E. Sub Total (E=C+D)					6,81,707.36
T&P @ 2% of E					13,634.15
Contingency @ 3% of E					20,451.22
Transportation @ 7.5% of E					51,128.05
Erection charges @ 10% on others ,5% on Dist. Transformers and 20% on PSC poles					48990.30
TOTAL RS.					815911.08
26	Cement Concreting for stay set CC 1:3:6 using 40 mm HBG metal= 0.45Mtrx 0.45Mtrx1.5 mtr= 0.3037 cum	Nos.	18	1270.00	22860.00
27	Cement Concreting of support with 1:3:6 using 40 mm HBG metal= 0.45Mtr.x 0.45Mtrx1.5 mtr= 0.3037 cum	Nos.	13	1270.00	16510.00
28	Materials for massonary work for eathpit, charcoal,salt & RCC cover etc.	No	2	1600.00	3200.00
29	Dismantalling of 11 KV Line	Span	9	500.00	4500.00
30	Dismantalling of 11 KV Pole	No	8	972.00	7776.00
					870757.08
Total Rs.					29,39,333.80
Cess @ 1%					29,393.34
Total Estimated Cost					29,68,727.14
Total Estimated Cost in Figures					29,68,727.00
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.)**