

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 :- 06 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 24-F+12-F, 6-E AND 2-D TYPE QUARTERS AT RESERVE OFFICE CAMPUS, KORAPUT.

BID REF NO.- 92/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. 2023-24	AMOUNT IN RS.
PART-I	11 KV LINE -1.8 KM				
1	11 KV 'V' cross arm(10.2 Kg each)	No.	25	1053.00	26325.00
2	GI Back clamp for 11 KV V Cross Arm	No.	25	104.00	2600.00
3	Top F clamp for PSC Pole ,2.9 Kg	No.	25	312.00	7800.00
4	Disc insulator 45 KN (B&S) Polymer	No.	57	1118.00	63726.00
5	11 KV HW fitting (B&S)2 bolted	No	57	169.00	9633.00
6	PG Clamp for 55 sq. mm AAAC	No	57	624.00	35568.00
7	11KV Pin Insulator polymer	No.	105	260.00	27300.00
8	HT stay set complete	No.	20	1365.00	27300.00
9	11KV stay insulator	No.	20	65.00	1300.00
10	HT stay clamp (1.9 Kg/Pair)	pair	20	162.50	3250.00
11	7/10 SWG stay wire, Grade-2	Kg	200	97.50	19500.00
12	Earthing support coil type	No	34	215.80	7337.20
13	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	8.908	97.50	868.53
14	GI Nuts and Bolts of assorted size	Kg	63.25	101.40	6413.55
15	100x50x6 mm channel for straight cross arm,1.2 Mtr. Each 2 Nos,0.3 Mtr. Long 2 Nos. @9.2 Kg/Mtr.	Kg	496.8	97.50	48438.00
16	11 Mtr. Long 160X160 WPB Pole(30.44 Kg/Mtr.)	No.	34	34321.52	1166931.68
17	55 sq. mm AAAC	Km	5.56	39000.00	216918.00
18	GI barbed wire anticlimbing device	Kg	102	104.00	10608.00
19	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	41.48	97.50	4044.30

20	Danger Board	No.	34	104.00	3536.00
21	Back clamp for Danger Plate 25x3 mm flat,0.59 kg/Mtr.,flat of 0.510 Mtr.,1 No.	Kg	10.404	97.50	1014.39
22	Sundries (Al. binding tape, insulation tape, paint etc.)	LS	1	2000.00	2000.00
A	TOTAL MATERIAL COST)				1,692,411.65
B	Stock, Storage & Insurance @ 3% of A				50,772.35
C	Sub Total (C=A+B)				1,743,184.00
D	Contingency @3% of C				52,295.52
E	T & P 2% of C				34,863.68
F	Transportation @ 7.5% of C				130,738.80
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				60,096.98
I	Erection Charges of other @ 10%				54,124.44
J	Sub Total Rs.				2,075,303.42
23	Stay concreting in ratio 1:2:4(0.5x0.5x0.8)Mtr.	Nos.	20	1235.58	24711.60
24	Concreting of Poles in ratio 1:1:5:3(500x500x1800mm)-0.45 Cu mtr.	Nos.	34	2880.00	97920.00
25	Couping of poles in ratio 1:1:5:3(500x500x475)=0.11875 Cu. Mtr.	Nos.	34	720.00	24480.00
	TOTAL RS.(PART-I)				2,222,415.02
A	250 KVA 11/0.4KV sub station				
1	11 Mtr. Long 160X160 WPB Pole(30.44 Kg/Mtr.)	No	2	34321.52	68643.04
2	Pressure Channel (GI)100x50x6mm each 2.8 mtr long, 2 Nos.(9.2K.g/mtr)with Galvanisation	K.g	51.52	97.50	5023.20
3	AB switch &HG fuse mounting channel(GI)(75x40x6)mm,2.8mtr long 4 No(6.8Kg/mtr)with Galvanisation	K.g	76.16	97.50	7425.60
4	75x40x6 mm , GI channel for bottom of DP, 2.8 Mtr. Long 2 Nos.(6.8 Kg/Mtr.)	Kg	38.08	97.50	3712.80
5	50x50x6 mm angle for cross bracing of DP 3.5 meter Long 2 Nos. (4.5 Kg/Mtr.)	Kg	31.5	97.50	3071.25
6	GI angle for mounting LT Distribution Box 50X50X6 mm Angle,1.0 mtr. Long , 2 Nos. per DT (4.5 Kg/Mtr.) .	Kg	18	97.50	1755.00
7	Disc insulator 45 KN (B&S) Polymer	No.	3	1118.00	3354.00
8	11 KV HW fitting (B&S)2 bolted	No.	3	169.00	507.00
9	11KV AB switch(3 pole,400 Amp,50Hz)	Set	1	15405.00	15405.00
10	11KV HG fuse (3 pole,400 Amp)with PI	Set	1	14989.00	14989.00
11	9KV 10KA LA, Station class	No.	3	1300.00	3900.00

12	LT Distribution box with MCCB, Aluminium Bus bar of 3- bay Kitkat Fuse for 250 KVA S/S	No	1	62400.00	62400.00
13	LT 3.5 core 500 sq. mm PVC cable(Un-armoured)	Mtr	25	1292.20	32305.00
14	GI Flat 25x4 mm @0.8 Kg/Mtr.	Kg	60	97.50	5850.00
15	HT stay set (Complete)	No.	4	1365.00	5460.00
16	stay Insulator, Type-C	No.	4	65.00	260.00
17	Stay clamp	pair	4	162.50	650.00
18	7/10 SWG GI Saty wire, grade-2	Kg	40	97.50	3900.00
19	GI Pipe earthing 40 Dia Medium gauge 3 mtrs long	No	7	1365.00	9555.00
20	Earthing coil for support	No	2	215.80	431.60
21	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.524	97.50	51.09
22	No. 6 GI wire for earthing	Kg	25	97.50	2437.50
23	GI nut,bolt & washers	Kg	30	101.40	3042.00
24	GI barbed wire anticlimbing device	Kg	6	104.00	624.00
25	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	2.44	97.50	237.90
26	Danger Board	No.	2	104.00	208.00
27	Back clamp for Danger Plate 25x3 mm flat,0.59 kg/Mtr.,flat of 0.510 Mtr.,1 No.	Kg	0.612	97.50	59.67
28	Sundries (Al. binding tape, insulation tape, paint fencing metal spreading ,Anticlimbing Device,danger board etc.)	LS	1	1000.00	1000.00
29	250 KVA ,11/0.4 Kv (AL) Transformer BIS Energy Level-II	No.	1	348985.00	348985.00
30	55 sq. mm AAAC	Km	0.05	39000.00	1950.00
A	TOTAL MATERIAL COST (FOR-2020-21)				607,192.65
B	Stock, Storage & Insurance @ 3% of A				18,215.78
C	Sub Total (C=A+B)				625,408.43
D	Contingency @3% of C				18,762.25
E	T & P 2% of C				12,508.17
F	Transportation @ 7.5% of C				46,905.63
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				21,507.84
I	Erection Charges of other @ 10%				19,525.15
J	Sub Total Rs.				744,617.47
31	Stay concreting in ratio 1:2:4(0.5x0.5x0.8)Mtr.	Nos.	7	1235.58	8649.06
32	Concreting of Poles in ratio 1:1:5:3(500x500x1800mm)-0.45 Cu mtr.	Nos.	2	2880.00	5760.00
33	Couping of poles in ratio 1:1:5:3(500x500x475)=0.11875 Cu. Mtr.	Nos.	2	720.00	1440.00

34	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	7	1600.00	11200.00
35	Fencing and sand & metal spreading 1) RCC Pillar of 6ft Long 2) Cooping of Pillar with C.C 1:3:6 using 40mm HBG metal size 3) GI barbed wire @ 6.044 mtr/kg 6 Nos run=40 ft x 6= 240 ft = 73.152 mtr =12.10 kg 4) MS grill gate 1.5 mtr (h) x 1.5 mtr (w) made of 35x35x6 mm MS angel and 25x6 mm flat (Angel for out side border with horizontal & vertical crossing for i) 35x35x6 mm MS Angel= 1.5 mtr x 4=6@3 Kg/mtr=18 Kg. ii) 25x6 mm flat=1.5 mtrx8x2=24 mtr @ 1.2 Kg/Mtr=28 Kg iii) Painting of gate with 2coat. 5) Filling sand@ 1.359 Cmt 6) 40mm size HBG metal @0.679 Cmt.	No	1	16796.42	16796.42
36	Plinth :- 1) Earth work for digging of foundation plinth = 2mtr x 2mtr x 0.9mtr = 3.6 cum 2) Filling of foundation and plinth with sand, water & rammed= 0.15mtr x 2mtr x 2mtr = 0.6 Cum 3) CC (1:4:8) with 4cm size HBG Metal = 0.1 mtr x 2mtr x 2mtr=0.4 Cum 4) RRHG stone machinery in coment mortor (1:6) in foundation plinth per 1 Cum (i) 0.65 mtr x 2mr x 2mtr = 2.5 Cum (ii) 1.4mtr x 1.8mtr x 1.8mtr = 4.54 Cum Total = 7.14 Cum 5) CC (1:2:4) with 12mm size HBG chips= 0.1mtr x 1.8mtr x 1.8mtr = 0.32 Cum 6) 8mm Rod= 1.8mtr x 13 x 2 = 46.8 mtr @0.39kg/mtr=6.8 x 0.39kg=,18.486 or 18.5 Kg 7) 18mm thick cement plaster (1:6) over brick work & stone work = 4x1.8x1.8+1.8x1.8= 12.96+3.24=16.2 sqft.	Ls	1	21269.55	21269.55
	Total Rs.(Part-II)				809,732.50
PART-III	LT LINE-0.450 Km				
1	L.T Stay set (Complete)	Set	2	676.00	1352.00
2	L.T Stay Insulator	No.	2	39.00	78.00

3	L.T Stay Clamp(1.4 K.g/Pair)	Pair	2	143.00	286.00
4	7/12 SWG Stay Wire	Kg	16	97.50	1560.00
5	Suspension clamp with eye Hook	pair	10	442.00	4420.00
6	Eye Hook for XLPE AB Cable	No.	4	78.00	312.00
7	Dead end clamp suitable for XLPE cable	No	4	84.50	338.00
8	Pole clamp for eye Hook for AB cable	pair	14	260.00	3640.00
9	Neutral connector ,Type-B suitable for main 35-70 sq. mm AAAC & Tap-2.5 to10 sq. mm service cable cover by black weather resistant insulation cover.	No	2	42.90	85.80
10	Insulated Piercing connector ,Type-A main 16-95 sq. mm & Tap-16 to 95 sq. mm	Mno	8	104.00	832.00
11	GI Nuts and Bolts of assorted size	Kg	8.924	101.40	904.89
12	3x50+1x35+1x16 sqmm LT XLPE AB Cable	Km	0.47	182000.00	85995.00
13	9 Mtr. Long 300 KG PSC Pole	Nos.	6	3,900.00	23,400.00
14	Earthing support coil type GI	No	6	215.80	1294.80
15	No.8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.57	97.50	153.08
16	GI Base Plate(500x500x10mm) for PSC Pole(20 Kg)	No	6	1950.00	11700.00
17	Danger Board	No.	6	104.00	624.00
18	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	1.84	97.50	179.40
19	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	18	104.00	1872.00
20	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	7.344	97.50	716.04
21	Sundries (paint, binding tape etc.)	LS	1	500.00	500.00
A	TOTAL MATERIAL COST (FOR-2020-21)				140,243.01
B	Stock, Storage & Insurance @ 3% of A				4,207.29
C	Sub Total (C=A+B)				144,450.30
D	Contingency @3% of C				4,333.51
E	T & P 2% of C				2,889.01
F	Transportation @ 7.5% of C				10,833.77
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				21,507.84
I	Erection Charges of other @ 10%				12,024.53
J	Sub Total Rs.				196,038.96
22	Stay concreting in ratio 1:2:4(0.5x0.5x0.8)Mtr.	Nos.	2	1235.58	2471.16
23	Concreting of Poles in ratio 1:1:5:3(500x500x1500mm)-0.375 Cu mtr.	Nos.	6	2400.00	14400.00
24	Couping of poles in ratio 1:1:5:3(500x500x475)=0.11875 Cu. Mtr.	Nos.	6	720.00	4320.00

	Total Rs.(Part-III)				217,230.12
PART-IV	DP STRUCTURE WITH AB SWITCH				
1	11 Mtr. Long 160X160 WPB Pole(30.44 Kg/Mtr.)	No	2	34321.52	68643.04
2	100x50x6mm GI Channel each 2.8 mtr long, 2 Nos.for Top Channel	K.g	51.52	97.50	5023.20
3	AB switch mounting channel(GI)(75x40x6)mm,2.8mtr long 2No(6.8Kg/mtr)	K.g	76.16	97.50	7425.60
4	50x50x6mm angle 2.8 mtr long,2 Nos.& 3.5 Mtr. Long 2 Nos. for providing cross bracing at Bottom of DP(4.5 K.g/mtr)	K.g	31.5	97.50	3071.25
5	11KV AB switch(3 pole,400 Amp,50Hz)	Set	1	15405.00	15405.00
6	Disc insulator 45 KN (T&C) Polymer	No.	6	1118.00	6708.00
7	11 KV HW fitting (T&C)45 KN	No.	6	169.00	1014.00
8	HT stay set (Complete)	No.	4	1365.00	5460.00
9	stay Insulator, Type-C	No.	4	65.00	260.00
10	Stay clamp	pair	4	162.50	650.00
11	7/10 SWG GI Saty wire, grade-2	Kg	40	97.50	3900.00
12	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	6	104.00	624.00
13	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	2.448	97.50	238.68
14	Danger Board	No.	2	104.00	208.00
15	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	0.612	97.50	59.67
16	GI pipe earthing 40 mm dia medium gauge,3 Mtr. Long	No	2	1365.00	2730.00
17	Earthing of support coil type	No	2	215.80	431.60
18	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.524	97.50	51.09
19	No. 6 GI wire for earthing	Kg	20	97.50	1950.00
20	GI Nut and bolt of assorted size	Kg	18	101.40	1825.20
21	Sundries (Al. binding tape, insulation tape, paint etc.)	LS	1	500.00	500.00
A	TOTAL MATERIAL COST (FOR-2020-21)				126,178.33
B	Stock, Storage & Insurance @ 3% of A				3,785.35
C	Sub Total (C=A+B)				129,963.68
D	Contingency @3% of C				3,898.91
E	T & P 2% of C				2,599.27
F	Transportation @ 7.5% of C				9,747.28
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				3,535.12
I	Erection Charges of other @ 10%				5,926.13
J	Sub Total Rs.				155,670.39
22	Stay concreting in ratio 1:2:4(0.5x0.5x0.8)Mtr.	Nos.	4	1235.58	4942.32

23	Concreting of Poles in ratio 1:1:5:3(500x500x1800mm)-0.45 Cu mtr.	Nos.	2	2880.00	5760.00
24	Couping of poles in ratio 1:1:5:3(500x500x475)=0.11875 Cu. Mtr.	Nos.	2	720.00	1440.00
25	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	2	1600.00	3200.00
Total Rs.(Part-IV)					171,012.71
Total Rs.					3,420,390.35
Cess @1%					34,203.90
Total Estimated Cost					3,454,594.25
Total Estimated Cost in Figures					3,454,594.00
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/-
Dy. Manager (Elect) I/C**

**Sd/-
Project Manager(Elect.)**