

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 1-C, 6-E, 4-E & 24 -F TYPE QUARTERS AT 1ST. I.R Bn., KORAPUT IN THE DISTRICT OF KORAPUT.

BID REF NO.- 71/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	ERECTION OF DOUBLE POLE STRUCTURE-02 NOS. GUARDING-01 NOS.				
1	11 KV 'V' cross arm(10.2 Kg each)	No.	18	1053.00	18,954.00
2	GI Back clamp for 11 KV V Cross Arm	No.	18	104.00	1,872.00
3	Top F clamp for PSC Pole ,2.9 Kg	No.	18	312.00	5,616.00
4	Disc insulator 45 KN (B&S) Polymer	No.	12	1118.00	13,416.00
5	11 KV HW fitting (B&S)2 bolted	No	12	169.00	2,028.00
6	11KV Pin Insulator polymer	No.	60	260.00	15,600.00
7	HT stay set complete	No.	8	1365.00	10,920.00
8	11KV stay insulator	No.	8	65.00	520.00
9	HT stay clamp (1.9 Kg/Pair)	pair	8	162.50	1,300.00
10	7/10 SWG stay wire, Grade-2	Kg	80	97.50	7,800.00
11	Earthing device/support coil type	No	22	215.80	4,747.60
12	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	5.764	97.50	561.99
13	GI Nuts and Bolts of assorted size	Kg	47	101.40	4,765.80
14	Fish plate, 50x8 mm, 0.97 Kg/mtr.,each 0.2820 mtr. Length	Kg	3.2592	97.50	317.77
15	11 Mtr Long 160X160 GI WPB Pole	No	22	34321.52	755,073.44
16	80 Sq. mm AAAC	Km	2.163	55900.00	120,911.70
17	100X50X6 mm ,GI channel 2.8 Mtr.Long 2 Nos. for top channel of DP(9.2 Kg/Mtr.),02 Nos.	Kg	103.04	97.50	10,046.40
18	100X50X6 mm ,GI channel 2.8 Mtr.Long 2 Nos. for Bracing channel of DP(9.2 Kg/Mtr.),02 Nos.	Kg	103.04	97.50	10,046.40
19	100X50X6 mm ,GI angle 3.5 Mtr.Long 2 Nos. for providing cross bracing at bottom of DP(4.5 Kg/Mtr.)	Kg	63	97.50	6,142.50
20	PG clamp for 55 sq. mm conductor	No	12	624.00	7,488.00
21	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	66	104.00	6,864.00
22	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	26.928	97.50	2,625.48
23	Danger Board	No.	22	104.00	2,288.00
24	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	6.732	97.50	656.37
25	75x40x6 mm ,channel for straight cross arm,1.5 Mtr.@ 6.8 Kg/Mtr.(4 Nos.)for road crossing with galvanisation	Kg	36.72	97.50	3,580.20

26	No.6 GI wire(dia 4.8 mm),40 Kg for 1 Nos. guarding & 20 Kg for 02 Nos. earthing at both sides of road crossing guarding .	Kg	80	97.50	7,800.00
27	GI pipe earthing 40 mm dia medium gauge,3 Mtr. Long	No	4	1365.00	5,460.00
28	8 SWG Gi wire for cross lacing	Kg	12	97.50	1,170.00
29	Eye Hook	No	8	78.00	624.00
30	Sundries (Paint,Al. binding tape etc.)	LS	1	1000.00	1,000.00
	A.Sub Total Rs.				1,030,195.65
B	Stock,storage and insurance (@3% on A)				30,905.87
C	TOTAL RS.				1,061,101.52
D	T&P @ 2% of C				21,222.03
E	Contingency @ 3% of C				31,833.05
F	Transportation @ 7.5% of C				79,582.61
G	Erection charges @ 10% on others ,5% on Dist. Transformers/Joist Pole/WPB Poles and 20% on PSC poles				67,223.87
H	TOTAL RS.				1,260,963.08
31	Cement Concrete for stay anchor plate CC 1:3:6 by using 4 cm size HBG metal= 0.45Mtrx 0.45Mtrx1.5 mtr= 0.3 cum	Nos.	8	1270.00	10,160.00
32	Cement Concreting for support with C.C. 1:3:6 by using 4cm size HBG metal= 0.45Mtr.x 0.45Mtrx1.5 mtr= 0.3037 cum+Couping with C.C .1:3:6 using 12 mm size HBG metal= 0.3Mtrx 0.3Mtrx0.45 mtr= 0.0405 cum	Nos.	22	1460.00	32,120.00
33	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	4	1600.00	6,400.00
	Total Rs.(Part-I)				1,309,643.08
PART-II	ERECTION OF 11 KV LINE USING 11 KV 1 CORE 100 SQ. MM XLPE INSULATED AAAC(UNARMOURED)-0.8 KM(14 SPAN)				
1	11 KV 'V' cross arm(10.2 Kg each)	No.	13	1053.00	13,689.00
2	GI Back clamp for 11 KV V Cross Arm	No.	13	104.00	1,352.00
3	Top F clamp for PSC Pole ,2.9 Kg	No.	15	312.00	4,680.00
4	Disc insulator 45 KN (T & C) Polymer	No.	15	1118.00	16,770.00
5	11 KV HW fitting (T & C)45 KN	No	15	169.00	2,535.00
6	11KV Pin Insulator polymer	No.	45	260.00	11,700.00
7	HT stay set complete	No.	5	1365.00	6,825.00
8	11KV stay insulator	No.	5	65.00	325.00
9	HT stay clamp (1.9 Kg/Pair)	pair	5	162.50	812.50
10	7/10 SWG stay wire, Grade-2	Kg	50	97.50	4,875.00
11	Earthing support coil type	No	15	215.80	3,237.00
12	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	3.93	97.50	383.18
13	GI Base Plate for support	No	0	1950.00	-
14	GI Nuts and Bolts of assorted size	Kg	29.75	101.40	3,016.65
15	100x50x6 mm channel for straight cross arm,1.2 Mtr. Each 2 Nos,0.3 Mtr. Long 2 Nos. @9.2 Kg/Mtr. For 180 degree CP 4 Nos. & 0.3 Mtr. Long 04 Nos.@ 9.2 Kg/Mtr. For 90 degree CP.	Kg	82.8	97.50	8,073.00
16	11 Mtr Long 160X160 GI WPB Pole	No	15	34321.52	514,822.80
17	11 KV 1 core 100 sq. mm XLPE insulated AAA conductor(unarmoured)	Km	2.472	117000.00	289,224.00
18	PG clamp for 55 sq. mm conductor	No	15	624.00	9,360.00
19	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	45	104.00	4,680.00

20	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	18.36	97.50	1,790.10
21	Danger Board	No.	15	104.00	1,560.00
22	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	4.59	97.50	447.53
23	Sundries (Al. binding tape, insulation tape, paint etc.)	LS	1	1000.00	1,000.00
A.Sub Total Rs.					901,157.75
B	Stock,storage and insurance (@3% on A)				27,034.73
C	TOTAL RS.				928,192.48
D	T&P @ 2% of C				18,563.85
E	Contigency @ 3% of C				27,845.77
F	Transportation @ 7.5% of C				69,614.44
G	Erection charges @ 10% on others ,5% on Dist. Transformers/Joist Pole/WPB Poles and 20% on PSC poles				66,305.87
H	TOTAL RS.				1,110,522.41
24	Cement Concrete for stay anchor plate CC 1:3:6 by using 4 cm size HBG metal= 0.45Mtrx 0.45Mtrx1.5 mtr= 0.3 cum	Nos.	5	1270.00	6,350.00
25	Cement Concreting for support with C.C. 1:3:6 by using 4cm size HBG metal= 0.45Mtr.x 0.45Mtrx1.5 mtr= 0.3037 cum+Couping with C.C .1:3:6 using 12 mm size HBG metal= 0.3Mtrx 0.3Mtrx0.45 mtr= 0.0405 cum	Nos.	15	1460.00	21,900.00
Total Rs.(Part-II)					1,138,772.41
PART-III	Construction of LT 3ph 5 W line using 3x50+1x35+1x16 sqmm XLPE AB Cable using 9 Mtr. Long 300 KG PSC Pole-0.7 Km				
1	L.T Stay set (Complete)	Set	3	676.00	2,028.00
2	L.T Stay Insulator	No.	3	39.00	117.00
3	L.T Stay Clamp(1.4 K.g/Pair)	Pair	3	143.00	429.00
4	7/12 SWG Stay Wire	Kg	24	97.50	2,340.00
5	Suspension clamp with I Hook for ABC	No.	17	442.00	7,514.00
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	21	260.00	5,460.00
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	32	42.90	1,372.80
10	Insulated Piercing connector ,Type-A main 16-95 sq. mm & Tap-16 to 95 sq. mm	No	8	104.00	832.00
11	GI Nuts and Bolts of assorted size	Kg	13.386	101.40	1,357.34
12	3x50+1x35+1x16 sqmm LT XLPE AB Cable	Km	0.74	182000.00	133,770.00
13	9 Mtr. Long 300 KG PSC Pole	No	9	3900.00	35,100.00
14	Earthing device coil type(GI)	No	9	215.80	1,942.20
15	No. 8 GI wire(dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	2.358	97.50	229.91
16	GI base palte(500x500x10 mm) for PSC Pole(20 kg)	No	9	1950.00	17,550.00
17	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	27	104.00	2,808.00
18	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For each back clamp	Kg	11.016	97.50	1,074.06

19	Danger Board	No.	9	104.00	936.00
20	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For each back clamp	Kg	2.754	97.50	268.52
21	Sundries (Al. binding tape, paint etc.)	LS	1	1000.00	1,000.00
	A.Sub Total Rs.				216,778.82
B	Stock,storage and insurance (@3% on A)				6,503.36
C	TOTAL RS.				223,282.19
D	T&P @ 2% of C				4,465.64
E	Contingency @ 3% of C				6,698.47
F	Transportation @ 7.5% of C				16,746.16
G	Erection charges @ 10% on others ,5% on Dist. Transformers/Joist Pole/WPB Poles and 20% on PSC poles				25,943.52
H	TOTAL RS.				277,135.98
22	Cement Concrete for stay anchor plate CC 1:3:6 by using 4 cm size HBG metal= 0.45Mtrx 0.45Mtrx1.5 mtr= 0.3 cum	Nos.	3	1270.00	3,810.00
23	Cement Concreting for support with C.C. 1:3:6 by using 4cm size HBG metal= 0.45Mtr.x 0.45Mtrx1.5 mtr= 0.3037 cum	Nos.	9	1270.00	11,430.00
	Total Rs(PART-III)				292,375.98
PART-IV	250 KVA 11/0.4KV sub station				
1	Angle for mounting LT Distribution Box (50x50x6)mm 1 Mtr. Long 2 Nos.(3.5 Kg/Mtr.)with Galvanisation	Kg	9	97.50	877.50
2	LT Distribution box with MCCB, Aluminium Bus bar of single bay Kitkat Fuse for 63 KVA S/S	No	1	62400.00	62,400.00
3	1 core 120 sq. mm LT XLPE cable	Mtr	120	228.80	27,456.00
4	GI Pipe earthing 40 Dia Medium gauge 3 mtrs long	No	4	1365.00	5,460.00
5	GI Flat 25x4 mm @ 0.8 Kg/mtr.	Kg	60	97.50	5,850.00
6	GI nut,bolt & washers	Kg	25	101.40	2,535.00
7	Sundries (Al. binding tape, insulation tape, paint etc.)	LS	1	1000.00	1,000.00
8	250 KVA ,11/0.4 Kv (AL) Transformer with Tap changer BIS Energy Level-II	No.	1	348985.00	348,985.00
9	80 sq. mm AAAC(For jumpering)	Km	0.02	55900.00	1,118.00
	A.Sub Total Rs.				455,681.50
B	Stock,storage and insurance (@3% on A)				13,670.45
C	TOTAL RS.				469,351.95
D	T&P @ 2% of C				9,387.04
E	Contingency @ 3% of C				14,080.56
F	Transportation @ 7.5% of C				35,201.40
G	Erection charges @ 10% on others ,5% on Dist. Transformers/Joist Pole/WPB Poles and 20% on PSC poles				28,962.47
H	TOTAL RS.				556,983.41
10	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	4	1600.00	6,400.00

11	<p>Plinth:-</p> <p>1) Earth work for digging of foundation plinth= 2mtr x 2mtr x 0.9 mtr = 3.6 cum</p> <p>2) Filling of foundation and plinth with sand, water - 0.15 mtr x 2mtr x 2mtr = 0.6 Cum</p> <p>3) CC (1:4:8) with 4 cm size HBG metal = 0.1 mtr x 2mtr x 2mtr = 0.4 Cum</p> <p>4) RRHG stone machinery in cement mortar (1:6) in foundation plinth per 1 Cum</p> <p>(i) 0.65 mtr x 2mtr x 2mtr = 2.6 Cum</p> <p>(ii) 1.4 mtr x 1.8 mtr x 1.8 mtr = 4.54 Cum</p> <p>Total = 7.14 Cum</p> <p>5) CC(1:2:4) with 12mm size HBG chips = 0.1 mtr x 1.8 mtr x 1.8 mtr = 0.32 Cum</p> <p>6) 8mm Rod = 1.8 mtr x 13x 2 = 46.8 mtr @ 0.39 kg / Mtr = 6.8 x 0.39 kg = 18.486 or 18.5 kg</p> <p>7) 16mm thick cement plaster (1:6) over brick work & stone work = 4x1.8x1.8+1.8x1.8 = 12.96+3.24= 16.2 sqft.</p>	No	1	21269.55	21,269.55
12	<p>Fencing and sand & metal spreading</p> <p>1) RCC Pillar of 6ft Long</p> <p>2) Cooping of Pillar with C.C 1:3:6 using 40mm HBG metal size</p> <p>3) GI barbed wire @ 6.044 mtr/kg 6 Nos run=40 ft x 6= 240 ft = 73.152 mtr =12.10 kg</p> <p>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</p> <p>i) 35x35x6 mm MS Angel= 1.5 mtr x 4=6@3 Kg/mtr=18 Kg.</p> <p>ii) 25x6 mm flat=1.5 mtrx8x2=24 mtr @ 1.2 Kg/Mtr=28 Kg</p> <p>iii) Painting of gate with 2coat.</p> <p>5) Filling sand@ 1.359 Cmt</p> <p>6) 40mm size HBG metal @0.679 Cmt.</p>	No	1	16796.42	16,796.42
Total Rs.(Part-IV)					601,449.38
PART-V	CONSTRUCTION OF 11 KV 4-POLE STRUCTURE WITH 11 KV BUSBAR, 2 NOS. AB SWITCH ARRANGEMENT				
1	11 Mtr Long 160X160 GI WPB Pole	No	4	34321.52	137,286.08
2	100x50x6mm GI channel each 3.5 mtr long, 8 nos. for top channel (9.2K.g/mtr)& 8 nos. for Lower bus system	K.g	515.2	97.50	50,232.00
3	Fish plate, 50x8 mm, 0.97 Kg/mtr.,each 0.2820 mtr. Length	Kg	13.037	97.50	1,271.11
4	4 pole Bracing channel (100x50x6)mm 3.5 Mtr. Long,(9.2 Kg/Mtr.)(8 Nos.)	K.g	257.6	97.50	25,116.00
5	50x50x6 mm GI Angle 4.7 mtr. Long 8 nos. for providing cross bracing on 4 pole(4.5 Kg/Mtr.)	Kg.	205.2	97.50	20,007.00
6	Disc insulator 45 KN (T&C) Polymer	No.	21	1118.00	23,478.00
7	11 KV HW fitting (T&C)45 KN	No	21	169.00	3,549.00
8	12KV 10KA LA, Station class	No.	6	4615.00	27,690.00
9	PG Clamp for 100 sq. mm Conductor	No	12	754.00	9,048.00
10	11KV AB switch 3 pole(400 Amp)	Set	2	15405.00	30,810.00
11	11KV HG fuse 3 pole(400 Amp)with PI	Set	1	7956.00	7,956.00

12	100 sq. mm AAAC	kM	0.15	71500.00	10,725.00
13	40 mm Nominal bore GI Pipe Medium gauge earthing device 3 mtrs long	No	7	1365.00	9,555.00
14	GI Flat 25x6 mm	Kg	105	97.50	10,237.50
15	GI Nuts and Bolts of assorted size	Kg	50	101.40	5,070.00
16	Anticlimbing Device/ Barbed wire (@ 3 Kg per support)	Kg	12	104.00	1,248.00
17	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr. For each back clamp	Kg	4.896	97.50	477.36
18	Danger Board	No	4	104.00	416.00
19	Back clamp for Danger Board(25x3 mm GI earth Flat,0.59 Kg/Mtr. & 0.51 Mtr. For each Back clamp	Kg	1.224	97.50	119.34
20	Sundries	LS	1	5000.00	5,000.00
A.Sub Total Rs.					379,291.39
B	Stock,storage and insurance (@3% on A)				11,378.74
C	TOTAL RS.				390,670.13
D	T&P @ 2% of C				7,813.40
E	Contigency @ 3% of C				11,720.10
F	Transportation @ 7.5% of C				29,300.26
G	Erection charges @ 10% on others ,5% on Dist. Transformers/Joist Pole/WPB Poles and 20% on PSC poles				31,996.79
H	TOTAL RS.				471,500.69
21	Cement Concreting for support with C.C. 1:3:6 by using 4cm size HBG metal= 0.45Mtr.x 0.45Mtrx1.5 mtr= 0.3037 cum+Couping with C.C .1:3:6 using 12 mm size HBG metal= 0.3Mtrx 0.3Mtrx0.45 mtr= 0.0405 cum	Nos.	4	1460.00	5,840.00
22	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	7	1600.00	11,200.00
Total Rs(PART-V)					488,540.69
Sub Total Rs.					3,830,781.54
Cess @ 1%					38,307.82
Total Estimated Cost					3,869,089.35
Total Estimated Cost in Figures					3,869,089.00
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.)