

**TENDER INVITING AUTHORITY: JOINT MANAGER (ELECTRICAL DIVISION),THE ODISHA STATE POLICE
HOUSING & WELFARE CORPORATION LTD, BHUBANESWAR**

**NAME OF THE WORK :-EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 2-D TYPE QTRS. FOR
SUPERINTENDENT & JAIL MEDICAL OFFICER AT BIJU PATTANAIAK OPEN AIR ASHRAM,JAMUJHARI IN THE DIST. OF KHURDA.**

BID REF NO.- 27/JM/ELECT/OPHWC/2019-20

Bidder Name

SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
SCOPE-A	Construction of 3 Ph 3 W 11 KV Overhead Line on 150x150 mm 10 Mtr. Long RS Joist using 55 sq. mm insulated conductor .	Km	0.05		
SCOPE-B	Construction of 11 KV Line DP switch using 400 Amp AB switch and 100x116 mm RS Joist Pole 10 Mtr. Long .	No	1		
SCOPE-C	Construction of LT 3 Ph 5 W Line using 8 Mtr. Long 125x70 mm RS Joist Pole with 3x50+1x35+1x16 sq. mm AB Cable.	Km	0.35		
SCOPE-D	Installation of 63 KVA(star rated) 11/0.4KV DP mounted sub station using 10 mtr. Long (150x150) mm RS Joist alongwith Barbed wire fencing(15'x10') with construction of retaining wall, sand filling, metal spreading & fixing of iron gate as per CESU	No	1		
1	63 KVA 11/0.4 KV AL Transformer BIS Energy Level-II	No	1	86500	86500.00
2	116x100 mm RS Joist pole 10 mtr long	Kg	1150	65.00	74750.00
3	125x70 mm RS Joist pole 8 mtr long for	Kg	1144	65.00	74360.00
A	TOTAL MATERIAL COST IN RS.				235610.00
B	Stock,storage and insurance (@3% on A)				7068.30
C	Total Rs.				242678.30
D	Contingency @ 3% on C				7280.35
E	T&P @ 2% of C				4853.57
F	Transportation @ 7.5% of C				18200.87
G	Erection charges @ 5% on Joist Pole and DTR,@ 20% on PSC Pole and @10% on other materials				12133.92
H	Total Rs.				285147.00
	SCOPE-A				
1	55 sq. mm insulated conductor	Km	0.15	36418.75	5462.81
2	11 KV Pin Insulator	No	6	80.00	480.00
3	11 kv GI pin	No	6	80.00	480.00
4	11 KV Disc insulator 70 KN (B&S)	No.	12	390.00	4680.00

5	11 KV H/W fitting	Set	6	350.00	2100.00
6	Red Oxide Paint	Ltr	1	150.00	150.00
7	Alluminium Paint	Ltr	1	200.00	200.00
8	Black Paint	Ltr	1	220.00	220.00
9	100x50x6mm MS channel	Kg	40	65.00	2600.00
10	Ms nut bolt & Washer	Kg	2	71.00	142.00
11	Earthing of support coil type	No	1	166.00	166.00
12	GI barbed wire anticlimbing device 2 Kg per support	Kg	2	80.00	160.00
13	Sundries	LS	1	1000.00	1000.00
					17840.81
	SCOPE-B				
1	100x50x6mm MS channel	K.g	104	65.00	6760.00
2	75x40x6 mm MS channel	K.g	40	65.00	2600.00
3	Lighting Arrester	No.	3	3550.00	10650.00
4	HT Stay Set	No.	2	1050.00	2100.00
5	Stay Clamp	No.	2	50.00	100.00
6	HT Stay Insulator	No.	2	125.00	250.00
7	GI Stay wire(7/10)	Kg	20	75.00	1500.00
8	11 KV Pin Insulator	No	3	80.00	240.00
9	11 kv GI pin	No	3	80.00	240.00
10	11 KV Disc insulator 70 KN (B&S)	No.	12	390.00	4680.00
11	11 KV H/W fitting	No.	6	350.00	2100.00
12	Earthing of support(Coil type)	No.	2	166.00	332.00
13	11 KV AB switch 3 pole (400Amp)	Set	1	11850.00	11850.00
14	25X3 mm GI flat for earthing	Kg.	20	75.00	1500.00
15	Fixing and stay set with 0.5Cum cement concret foundation 1:3:6 size(900mmx600mmx900mm) using 40mm BHG metal with all labour and material except stay set, stay wire, stay insulator.	No.	2	2315.15	4630.30
16	Concreting of support C.C-1:4:8 using 40mm BHG metal size-5'x2'x2'=20 CFT = 0.570 Cum Padding 900x600x150mm = <u>0.081</u> = 0.651Cum x3071.25=1999.38 each cutpoint	No.	2	2639.18	5278.36
17	Couping of support section 15"x15" (3.9 Cft) height 2'-6" (1'-6" above G.L & 1'-0" below G.L) in C.C 1:2:4 using 12mm BHG metal & curring for 5 days.	No	2	676.37	1352.74
18	Ms nut bolt & Washer	Kg	12	71.00	852.00
19	GI Pipe for earthing 40mm dia 3mtr long	No	2	1050.00	2100.00
20	GI barbed wire anticlimbing device 2 Kg per support	Kg	4	80.00	320.00
21	Materials for massonary work for eathpit, charcoal,salt etc including construction of earthing chamber(size : 2"x2") & RCC slab cover	No	2	2270.27	4540.54
22	Sundries	LS	1	1200.00	1200.00
					65175.94

	PART-C				
1	LT 1 Ph 2W cross arm	No	11	290.00	3190.00
2	L.T Stay set (Complete)	Set	4	520.00	2080.00
3	7/10 SWG Stay Wire	Kg	40	75.00	3000.00
4	L.T Stay Clamp(1.4 K.g/Pair)	Pair	4	110.00	440.00
5	L.T Stay Insulator	No.	4	30.00	120.00
6	Fixing and stay set with 0.5Cum cement concret foundation 1:3:6 size(900mmx600mmx900mm) using 40mm BHG metal with all labour and material except stay set, stay wire, stay insulator.	No.	4	2315.15	9260.60
7	Couping of support section 15"x15" (3.9 Cft) height 2'-6' (1'-6' above G.L & 1'-0' below G.L) in C.C 1:2:4 using 12mm BHG metal & curring for 5 days.	No	11	676.36	7439.96
8	Concreting of support C.C-1:4:8 using 40mm BHG metal size-5'x2'x2'=20 CFT = 0.570 Cum Padding 900x600x150mm = <u>0.081</u> = 0.651Cum x3071.25=1999.38 each cutpoint	No.	11	2639.18	29030.98
9	Ms nut bolt & Washer	Kg	4	71.00	284.00
10	LT shackle insulator	No	11	30.00	330.00
11	AB cable(3x50+1x35+1x16 sq. mm)	Km	0.35	140000.00	49000.00
12	Pearcing connector	No	9	500.00	4500.00
13	Sundries for survey,tree cutting ,insulated Tape and Danger Board etc .	LS	1	1000.00	1000.00
					109675.54
	PART-D				
1	100x50x6mm MS channel	K.g	104	65.00	6760.00
2	75x40x6 mm MS channel	K.g	90	65.00	5850.00
3	50x50x6 mm MS Angle	K.g	81	65.00	5265.00
4	11 KV AB switch 3 pole (200Amp)	Set	1	7350.00	7350.00
5	11 KV HG fuse 3 pole (400 Amp)	Set	1	6120.00	6120.00
6	Lightening Arrester (12 KV, 10 KA)	No.	3	3550.00	10650.00
7	HT Stay Set complete	No.	2	1050.00	2100.00
8	HT Stay Insulator	No.	2	50.00	100.00
9	H.T Stay Clamp(1.95 K.g/Pair)	Pair	2	125.00	250.00
10	GI Stay wire(7/10)	Kg	20	75.00	1500.00
11	GI Pipe for earthing 40mm dia 3mtr long	No	5	1050.00	5250.00
12	No. 6 GI wire	Kg	20	75.00	1500.00
13	40x6 mm GI Flat for netural	Kg	20	75.00	1500.00
14	Fixing and stay set with 0.5Cum cement concret foundation 1:3:6 size(900mmx600mmx900mm) using 40mm BHG metal with all labour and material except stay set, stay wire, stay insulator.	No.	2	2315.15	4630.30

15	Concreting of support C.C-1:4:8 using 40mm BHG metal size-5'x2'x2'=20 CFT = 0.570 Cum Padding 900x600x150mm = <u>0.081</u> = 0.651Cum x3071.25=1999.38 each cutpoint	No.	2			2639.18	5278.36
16	Couping of support section 15"x15" (3.9 Cft) height 2'-6" (1'-6" above G.L & 1'-0" below G.L) in C.C 1:2:4 using 12mm BHG metal & curring for 5 days.	No	2			676.37	1352.74
17	Materials for massonary work for eathpit, charcoal,salt etc including construction of earthing chamber(size : 2"x2") & RCC slab cover	No	5			2270.27	11351.35
18	55mm2 AAAC	Km	0.04			30000.00	1200.00
19	Red Oxide Paint	Ltr	2			150.00	300.00
20	Alluminium Paint	Ltr	2			200.00	400.00
21	Black Paint	Ltr	1			220.00	220.00
22	Earthing of support coil type	No	2			166.00	332.00
23	Ms nut bolt & Washer	Kg	36			71.00	2556.00
24	LT Distrubution Box including kitkat fuse with MCCB for 63 kVA S/S	No	1			18322.00	18322.00
25	95 mm2 3.5 core LT PVC with spare cable	Mtr.	15			333.00	4995.00
26	Barbed wire fencing(15'x10') with construction of retaining wall, sand filling, metal spreading & fixing of iron gate as per CESU.	No	1			41580.00	41580.00
27	Sundries for survey, PVC tape , ampire tape, danger board ,small size nut & bolt preparation of drawing cable Socket etc.	LS	1			4092.00	4092.00
							150804.75
A	TOTAL MATERIAL COST IN RS.						343497.04
B	Stock,storage and insurance (@3% on A)						10304.91
C	Total Rs.						353801.95
D	Contingency @ 3% on C						10614.06
E	T&P @ 2% of C						7076.04
F	Transportation @ 7.5% of C						26535.15
G	Erection charges @ 5% on Joist Pole and DTR,@ 20% on PSC Pole and @10% on other materials						35380.20
H	Total Rs.						433407.39
PART-E	Labour Charges for 25 KVA ,11/0.4 KV S/S & 11 KV Line						
1	9 Mtr. Long 300 KG PSC Pole	No	2		330.00		660.00
2	55 sq mm AAC	span	1		123.00		123.00
3	100x50x6mm MS channel	Pair	2		45.00		90.00
4	75x40x6 mm MS channel	Pair	2		45.00		90.00
5	50x50x6 mm MS Angle	Pair	2		45.00		90.00
6	11 KV AB switch 3 pole (400Amp)	Set	1		125.00		125.00

7	11 KV HG fuse 3 pole (400 Amp)	Set	1	125.00	125.00
8	Lightening Arrester (12 KV, 10 KA)	set	1	125.00	125.00
9	Labour Charges for dismantalling of 25 KVA ,11/0.4 KV S/S	No.	1	1000.00	1000.00
10	Total Rs.				2428.00
I	Sub-Total Rs.				720982.40
J	Total Estimated Cost in Figures				720982.00
EXCESS	<input type="checkbox"/>	LESS	<input type="checkbox"/>	(Please Tick)	_____%
Quoted Amount in Figure					
Quoted Amount in words					

N:B- The Estimated cost is exclusive of GST.

Signature of Tenderer with seal

**Sd/-
Asst. Project Manager[Elect.]**

**Sd/-
APM Elect. (Hqr.)**

**Sd/-
Consultant(Elect.)**

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