

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 MARINE POLICE STATION AT JATADHARI IN THE DIST. OF JAGATSINGHPUR.					
BID REF NO.- 22/JM/ELECT/OPHWC/2019-20					
Bidder Name					
<u>SCHEDULE OF WORKS</u>					
Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
SCOPE-A	Construction of 3 ph 3 wire 11 KV line using 11 mtr. Long 150X150 MM RS Joist with 80 sq.mm AAA Conductor -1.0 Km				
1	11 Mtr. Long 150x150 mm RS Joist pole	No.	1	21879.00	21879.00
2	9 mtr long 300 KG psc pole	No	16	3000.00	48000.00
3	11KV "V" Cross arm(10.2Kg Each)	No	14	810.00	11340.00
4	Top bracket 75x40 mm MS Channel(1.3 Kg each)	No	14	100.00	1400.00
5	Back clamp for V Cross arm 1.70 Kg each	Pair	14	150.00	2100.00
6	11KV GI Pin	No	51	80.00	4080.00
7	11KV Pin Insulator	No	51	80.00	4080.00
8	11KV H.W Fitting(B&S)	No	21	350.00	7350.00
9	11KV Disc insulator(B&S)70KN	No	42	390.00	16380.00
10	HT Stay Set (Complete)	Set	7	1050.00	7350.00
11	HT Stay Insulator	No	7	50.00	350.00
12	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.	7	2315.15	16206.05
13	HT Stay Clamp(1.95 K.g/Pair)	Pair	7	125.00	875.00
14	7/10 SWG Stay Wire 15Kg/stay	Kg	70	75.00	5250.00
15	Earthing of support(Coil type)	No	17	166.00	2822.00
16	80 sq. mm AAAC	Km	3.05	43000.00	131150.00
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	17	676.37	11498.29
18	Concreting of support C.C-1:4:8 using 40mm BHG metal size- 5'x2'x2'=20 CFT = 0.570 Cum Padding 900x600x150mm = $0.081 = 0.651\text{Cum}$ x3071.25=1999.38 each cutpoint	No.	17	2639.18	44866.06
19	GI barbed wire anticlimbing device 2 Kg per support	Kg	17	80.00	1360.00
20	100x50x6mm MS Channel	Kg	120	75.00	9000.00
21	Red Oxide Paint	Ltr	1	150.00	150.00
22	Alluminium Paint	Ltr	1	200.00	200.00
23	Black Paint	Ltr	1	220.00	220.00
24	5/8 GI Nut,Bolt & washer of different sizes	Kg	51	78.00	3978.00

25	Sundries for survey,tree cutting ,small size Nut & bolt ,Aluminium Binding wire /Tape and Danger Board 4 nos.etc .	LS	1		3100.00	3100.00
SCOPE-B	Installation of 25 KVA 11/0.4KV DP mounted sub station using 9 mtr long 100x116 mm RS Joist pole alongwith Barbed Fencing (size 15'x10') with Construction of retaining wall ,erection of RCC fencing post ,sand filling, metal spreading &Iron grill gate.- 1 No.					
1	9 mtr long 100x116 mm RS Joist pole	No	2		13455.00	26910.00
2	Pressure Channel 100x50x6mm MS channel each 2.8 mtr long(9.2K.g/mtr)x 2 Nos.	K.g	51.52	75		3864.00
3	Transfor mounting channel 100x50x6 mm GI channel each 2.8 Mtr. Long (9.2 Kg per Mtr.)x2 Nos..	K.g	51.52	75		3864.00
4	AB switch &HG fuse mounting channel(75x40x6)mm,GI channel each 2.8mtr long 4 No(6.8Kg/mtr)	K.g	76.16	75		5712.00
5	Cantilever channel for supporting AB Switch Arm ,75x40x6mm MS Angle 1 mtr long 2nos (6.8Kg/mtr)	K.g	13.6	75		1020.00
6	Cantilever channel for supporting HG fuse ,50x50x6mm MS Angle (1 mtr long 2nos)(4.5Kg/mtr)	No.	9	75		675.00
7	Angle for cantilever arrangement for AB Switch & HG fuse 50x50x6 mm - 2mtr each 2nos (4.5 Kg per mtr)	Kg	18	75		1350.00
8	Transfor belting angel 50x50x6 mm 2.8 Mtr. Long 2 Nos. (4.5 Kg/Mtr.) with side angel (total 7 Mtr.)GI channel each 2.8 Mtr. Long (9.2 Kg per Mtr.)x2 Nos.	K.g	31.5	75		2362.50
9	Angle for mounting LT distribution Box 50x50x6 mm MS angel-2.5mtr each long 2nos (4.5 KGg per mtr)	Kg	22.5	75		1687.50
10	11KV H.W Fitting(B&S)	No	3		350.00	1050.00
11	11KV Disc insulator(B&S)70KN	No	6		390.00	2340.00
12	11 KV AB switch 3 pole(200A)	set	1		7350.00	7350.00
13	11KV HG fuse 3pole (400A)	No	1		11530.00	11530.00
14	11KV L.A-12KV-10KA	No.	3		3550.00	10650.00
15	HT Stay Set (Complete)	Set	2		1050.00	2100.00
16	HT Stay Insulator	No.	2		50.00	100.00
17	HT Stay Clamp(1.95 K.g/Pair)	Pair	2		125.00	250.00
18	7/10 SWG Stay Wire	KG	20		75.00	1500.00
19	GI Pipe for earthing 40mm dia 3mtr long	No	5		1050.00	5250.00
20	NO-6 GI wire	Kg	20		75.00	1500.00
21	40x6 mm GI Flat for netural	Kg	20		75.00	1500.00

22	Fixing of stay set with 0.5 cum cement concret foundation 1:3:6 size (900x 900x600 mm) using 40 mm BHG metal with all labour and material except stay wire, stay set,stay insulator.	No	2		
				2315.15	4630.30
23	Concreting of support CC 1:4:8 using 40 mm BHG metal size- 5'x2'x2'=20CFT=.570Cum Padding 900x600x150 mm =0.081 0.651 cum @ 3071.25 =1999.38 each	No	2		
				2639.18	5278.36
24	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
25	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
26	55 sq. mm AAC	Km	0.04	30000.00	1200.00
27	GI nut bolt & Washer	Kg	36	78.00	2808.00
28	25 KVA ,11/0.4 Kv (AL) Transformer BIS Energy Level-II	No	1	53800.00	53800.00
29	LT Distrubuting Box including kitkat fuse with MCCB for 25 kVA S/S .	No	1	14930.00	14930.00
30	3 1/2 x35 mm ² PVC cable for)25 kva Tfr.	Mtr	15	152.00	2280.00
31	Barbed wire fencing(15'x10') with construction of retaining wall,erection of RCC fencing post sand filling, metal spreading & fixing of iron gate as per CESU.	No	1	41580.00	41580.00
32	Sundries for survey, PVC tape , ampire tape, danger board ,small size nut & bolt preparation of drawing All. Socket etc.	LS	1	3100.00	3100.00
SCOPE-C	Construction of 3 Ph 5 W LT Line with 3x50+1x35+1x16 sq.mm AB cable .-0.25 Km				
1	8 mtr long 200 KG psc pole	No	6	2000.00	12000.00
2	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	6	676.37	4058.22
3	Concreting of support C.C-1:4:8 using 40mm BHG metal size- 5'x2'x2'=20 CFT = 0.570 Cum Padding 900x600x150mm = 0.081 = 0.651Cum x3071.25=1999.38 each cutpoint	No.	6	2639.18	15835.08
4	L.T Stay set (Complete)	Set	4	520.00	2080.00
5	7/12 SWG Stay Wire	Kg	40	75.00	3000.00

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	L.T Stay Clamp(1.4 K.g/Pair)	Pair	4	110.00	440.00
8	L.T Stay Insulator	No.	4	30.00	120.00
9	Conductor dead end clamp suitable for bare messenger XLPE aerial bunched cable(25-70 sq. mm)	No	2	65.00	130.00
10	Suspension clamp GI with I Hook for ABC	No	6	340.00	2040.00
11	I Hook for ABC	No	6	60.00	360.00
12	Pole clamp for fitting for I-Hook for(XLPE areial bunched cable)	Pair	6	200.00	1200.00
13	Strain fittings	No	3	66.00	198.00
14	Guy grip dead end	No	3	58.48	175.44
15	Insulated piercing connector	No	18	80.00	1440.00
16	GI Nuts & Bolts	Kg	6	78.00	468.00
17	Earthing of support(Coil type)	No	5	166.00	830.00
18	AB cable(3x50+1x35+1x16 sq. mm)	Km	0.25	140000.00	35000.00
19	Sundries(survey,tree cutting,insulated tape etc.)	L/S	1	1000.00	1000.00
SCOPE-D	Construction of 11 KV Line DP with AB switch Arrangements-1 No.				
1	9 mtr long 300 KG psc pole	No	2	3000.00	6000.00
2	11KV H.W Fitting(B&S)	No	6	350.00	2100.00
3	11KV Disc insulator(B&S)70KN	No	12	390.00	4680.00
4	100x50x6mm GI channel	Kg.	52	75.00	3900.00
5	75x40x6mm GI channel	Kg.	45	75.00	3375.00
6	50x50x6mm GI Angle	Kg.	40	75.00	3000.00
7	11 KV AB switch 3 pole (200Amp)	Set	1	11850.00	11850.00
8	HT Stay Set	No.	2	1050.00	2100.00
9	HT Stay Insulator	No.	2	50.00	100.00
10	H.T Stay Clamp(1.95 K.g/Pair)(4 pair)	Pair	2	125.00	250.00
11	GI Stay wire(7/10)	Kg	20	75.00	1500.00
12	GI Pipe for earthing 40mm dia 3mtr long	No	1	1050.00	1050.00
13	NO-6 GI wire	Kg	10	75.00	750.00
14	40x6 mm GI Flat	Kg	10	75.00	750.00
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	1753.90	3507.80
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	1999.38	3998.76

17	Concreting of support C.C-1:4:8 using 40mm BHG metal size- 5'x2'x2'=20 CFT = 0.570 Cum Padding 900x600x150mm = $0.081 = 0.651\text{Cum}$ $\times 3071.25 = 1999.38$ each cutpoint	No.	2			512.40	1024.80
18	Materials for massonary work for eathpit, charcoal,salt etc including construction of earthing chamber(size : 2"x2") & RCC slab cover	No	1			1719.90	1719.90
19	55 sq. mm AAC	Km	0.04	30000.00	1200.00		
20	5/8" GI Nut,bolt & washer	Kg	25	78.00	1950.00		
21	Sundries for survey, PVC tape , ampire tape, danger board ,small size nut & bolt preparation of drawing All. Socket etc.	Ls	1	1000.00	1000.00		
A	TOTAL MATERIAL COST IN RS.						735301.75
B	Stock,storage and insurance (@3% on A)						22059.05
C	Total Rs.						757360.80
D	Contingency @ 3% on C						22720.82
E	T&P @ 2% of C						15147.22
F	Transportation @ 7.5% of C						56802.06
G	Erection charges @ 5% on Joist Pole and DTR,@ 20% on PSC Pole and @10% on other materials						77250.74
H	TOTAL RS.						929281.64
I	Total Estimated Cost in Figures						929282.00
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/-
Consultant(Elect.)**

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

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