

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 JMFC BUILDING, MOTU AT MV-79 INTHE DIST.OF MAKANGIRI.

BID REF NO :- 45/JM/ELECT/OPHWC/2020-21

NAME OF THE BIDDER

SCOPE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
SCOPE-A	I. Construction of 3 ph 3 wire 11 KV OH line using 9 Mtr. Long 300 Kg PSC pole with 80 sq. mm AAA Conductor - 0.15 Km				
1	11 kv v cross Arm	No.	2	810.00	1,620.00
2	Back clamp for V cross arm	No	2	80.00	160.00
3	11 KV F clamp	No.	2	240.00	480.00
4	11 KV Disc Insulator (B & S)45 KN polymer	No.	3	860.00	2,580.00
5	11 KV Hard wire fittings (B & S)45 KN	No.	3	130.00	390.00
6	11 KV Pin insulator porcelene	No	6	80.00	480.00
7	11 KV GI Pin	No	6	80.00	480.00
8	HT Stay Set complete	Set	1	1050.00	1,050.00
9	HT stay insulator	No.	1	50.00	50.00
10	Stay Clamp	Pair	1	125.00	125.00
11	7/10 SWG GI Stay Wire	Kg	8	75.00	600.00
12	Earthing of support(coil type)	No	2	166.00	332.00
13	GI Base plate(500x500x10mm) for PSC pole	No	2	1500.00	3,000.00
14	Cement Cocncreting of stay Anchor plate C.C 1:3:6 size by using 4 cm size hard granite metal=0.45x0.45x1.5 Mtr.=0.3037cum.	No.	1	1270.00	1,270.00
15	Padding & Concreting materials for support with cooping(0.45 Mtr.x 0.45 Mtr.x1.5 Mtr.)	No.	1	1460.00	1,460.00
16	MS Nut,Bolt & Washers	Kg	4	71.00	284.00
17	Sundries(paint,danger board,insulating tape, anticlimbing device,clamp connector, jumpering materials,Al. binding tape & wire, socket & other cable accessories etc.)	Ls	1	500.00	500.00
18	100x50x6mm MS channel for straight Cross arm 1.2 mtr each 2 Nos &0.2 Mtr.long 2 Nos @9.2kg/mtr	K.g	25.76	65.00	1,674.40
19	9 Mtr.long 300 KG PSC pole	No	2	3000.00	6,000.00
20	80 sq. mm AAA conductor	Km	0.4635	43000.00	19,930.50
A	TOTAL RS.				42,465.90
SCOPE-B	Construction of LT Line using 3x(1cx70mm2) XLPE Cable + 1ph2w (1x35+1x25)and 8 mtr long 200 Kg PSC Pole -0.28 Km				

1	LT stay set complete	Set	6	520.00	3,120.00
2	7/12 SWG GI stay wire	Kg.	42	75.00	3,150.00
3	Cement Cocncreting of stay	No.	6	1270.00	7,620.00
4	LT stay clamp	Pair	6	110.00	660.00
5	LT stay set Insulator	No.	6	30.00	180.00
6	Sundries (Paint. Binding wire /tape etc.)	LS	1	500.00	500.00
7	MS Nut,Bolt & Washers	Kg	5	71.00	355.00
8	LT 1Cx70mm ² XLPE Cable (Un-armoured)	Mtr.	885.2	74.00	65,504.80
9	LT 3ph 5w cross arm(MS)9.75Kg	No	11	730.00	8,030.00
10	LT Back Clamp for cross arm(0.85 Kg/No)	No	11	80.00	880.00
11	LT Pin Insulator	No	20	20.00	400.00
12	LT G.I Pin	No	20	50.00	1,000.00
13	LT Shakle Insulator	No	20	30.00	600.00
14	LT G.I Strap with N&B	Set	20	80.00	1,600.00
15	AB Cable (1x35+1x25 mm ²)	Mtr.	0.2884	42000.00	12,112.80
16	8 Mtr.long 200 KG PSC pole	No	8	2000.00	16,000.00
H	Total				121,712.60
SCOPE-C	Construction of LT Line using (1x35+1x25)mm² AB cable 8 mtr long 200 Kg PSC Pole -0.76 Km				
1	Stay set complete	Set	12	520.00	6,240.00
2	7/12 SWG GI stay wire	Kg.	84	75.00	6,300.00
3	Cement Cocncreting of stay	No.	12	1270.00	15,240.00
4	LT stay clamp	Pair	12	110.00	1,320.00
5	LT stay set Insulator	No.	12	30.00	360.00
6	Dead End clamp	No	15	377.71	5,665.65
7	Suspension clamp with I hook	No	10	340.00	3,400.00
8	Strain fitting	No	15	72.35	1,085.25
9	Sundries (Paint. Binding wire /tape etc.)	LS	1	1000.00	1,000.00
10	MS Nut,Bolt & Washers	Kg	10	71.00	710.00
11	AB Cable (1x35+1x25 mm ²)	Mtr.	0.7828	42000.00	32,877.60
12	8 Mtr.long 200 KG PSC pole	No	19	2000.00	38,000.00
H	Total				112,198.50
SCOPE-D	I. Construction of Up-Rating of Conductor of existing line from34mm² to 80 mm² with errection of intermediate supports - 2.3 Km				

1	11 kv v cross Arm	No.	17	810.00	13,770.00
2	Back clamp for V cross arm	No	17	80.00	1,360.00
3	11 KV F clamp	No.	17	240.00	4,080.00
4	11 KV Disc Insulator (B & S)45 KN polymer	No.	42	860.00	36,120.00
5	11 KV Hard wire fittings (B & S)45 KN	No.	42	130.00	5,460.00
6	11 KV Pin insulator porcelene	No	51	80.00	4,080.00
7	11 KV GI Pin	No	51	80.00	4,080.00
8	HT Stay Set complete	Set	15	1050.00	15,750.00
9	HT stay insulator	No.	15	50.00	750.00
10	Stay Clamp	Pair	15	125.00	1,875.00
11	7/10 SWG GI Stay Wire	Kg	120	75.00	9,000.00
12	Earthing of support(coil type)	No	21	166.00	3,486.00
13	GI Base plate(500x500x10mm) for PSC pole	No	21	1500.00	31,500.00
14	Cement Cocncreting of stay Anchor plate C.C 1:3:6 size by using 4 cm size hard granite metal=0.45x0.45x1.5 Mtr.=0.3037cum.	No.	15	1270.00	19,050.00
15	Padding & Concreting materials for support with cooping(0.45 Mtr.x 0.45 Mtr.x1.5 Mtr.)	No.	7	1460.00	10,220.00
16	MS Nut,Bolt & Washers	Kg	60	71.00	4,260.00
17	Sundries(paint,danger board,insulating tape, antilimbing device,clamp connector, jumpering materials,Al. binding tape & wire, socket & other cable accessories etc.)	Ls	1	3000.00	3,000.00
18	100x50x6mm MS channel for straight Cross arm 1.2 mtr each 14 Nos &0.2 Mtr.long 14 Nos @9.2kg/mtr	K.g	180.32	65.00	11,720.80
19	9 Mtr.long 300 KG PSC pole	No	21	3000.00	63,000.00
20	80 sq. mm AAA conductor	Km	7.107	43000.00	305,601.00
A	TOTAL RS.				548,162.80
SCOPE-E	Installation of 63 KVA(BIS Energy Leve-II) 11/0.4KV DP mounted sub station using 9 Mtr long 100x116 mm RS Joist Pole - 1 No.				
1	9 Mtr.long 300 KG PSC pole	No	2	3000.00	6,000.00
2	Pressure Channel 100x50x6mm MS channel each 2.8 mtr long (9.2 K.g per mtr) x 2 Nos.	K.g	51.52	65.00	3,348.80
3	Transformer mounting channel 100x50x6mm GI channel each 2.8 mtr long (9.2K.g per mtr)x 2 nos	Kg	51.52	65.00	3,348.80
4	AB Switch & HG Fuse , mounting channel (75x40x6)mm2.8 Mtr.long4 Nos (6.8Kg/mtr)	K.g	76.16	65.00	4,950.40
5	Angle for Mounting LT distribution Box (50x50x6) mm 1mtr long,2 nos(4.5Kg/Mtr)	K.g	9	65.00	585.00
6	11 KV Disc Insulator (B & S)polymer 45 KN	No.	3	860.00	2,580.00
7	11 KV Hard ware fittings (B &S)45 KN	No.	3	130.00	390.00
8	11 KV AB switch 3 pole 400 A.	Set	1	11850.00	11,850.00
9	11 KV HG fuse 3 pole 400 A. with PI	Set	1	11530.00	11,530.00
10	11 KV LA(12Kv,10 KA class)	No.	3	3550.00	10,650.00
11	LT Distribution box with MCCB Box,Aluminium Busbar for 2 Bay with Kit kat fuse for 250 KVA S/S	No.	1	48000.00	48,000.00

12	LT 3.5 core PVC cable 500 sq. mm	Mtr.	15	1628.00	24,420.00
13	HT Stay Set complete	Set	2	1050.00	2,100.00
14	HT stay insulator	No.	2	50.00	100.00
15	Stay Clamp	Pair	2	125.00	250.00
16	7/10 SWG GI Stay Wire	Kg	20	75.00	1,500.00
17	GI Pipe Earthing 40 dia medium gauge 2.5 mtrs. Long	No.	5	1050.00	5,250.00
18	Earthing of support(coil type)	No	2	166.00	332.00
19	No. 6 GI Wire for earthing	Kg	54	75.00	4,050.00
20	Concrete material for stay anchor plate	No	2	1270.00	2,540.00
21	Padding & Concreting materials for support with cooping(0.45 Mtr.x 0.45 Mtr.x1.5 Mtr.)	No.	2	1270.00	2,540.00
22	Materials for massonary work for eathpit, charcoal,salt etc including construction of earthing chamber(size : 2'x2') & RCC slab cover	No	5	1600.00	8,000.00
23	GI Base plate(500x500x10) for PSC pole	No	2	1500.00	3,000.00
24	MS Nut,Bolt & Washers	Kg	30	71.00	2,130.00
25	Sundries for survey, tree cutting,small size nut bolt,Allm. Binding wire /tape etc.	LS	1	1000.00	1,000.00
26	Sand and metal spreading	Ls	1	2532.19	2,532.19
27	250 KVA, 11/0.4 KV transformer (BIS Energy Leve-II)	No.	1	268450.00	268,450.00
28	Plinth for installation of 250 KVA Transformer (Approx)Actual working estimate may be obtained from works department	No.	1	20000.00	20,000.00
29	Boundary wall for Substation with Grill Gate & Locking arrangement(Approx)Actual working estimate may be obtained from works department	No.	1	20000.00	20,000.00
H	Total				471,427.19
SCOPE-F	Construction of New Cut-Point DP				
1	11 KV Disc Insulator (B & S)polymer 45 KN	No.	6	860.00	5,160.00
2	11 KV Hard ware fittings (B &S)45 KN	No.	6	130.00	780.00
3	HT Stay Set complete	Set	4	1050.00	4,200.00
4	HT stay insulator	No.	4	50.00	200.00
5	Stay Clamp	Pair	4	125.00	500.00
6	7/10 SWG GI Stay Wire	Kg	32	75.00	2,400.00
7	Earthing of support(coil type)	No	2	166.00	332.00
8	GI Base plate(500x500x10mm) for PSC pole	No	2	1500.00	3,000.00
9	Concrete material for stay anchor plate	No	4	1270.00	5,080.00
10	Padding & Concreting materials for support with cooping(0.45 Mtr.x 0.45 Mtr.x1.5 Mtr.)	No.	2	1460.00	2,920.00
11	MS Nut,Bolt & Washers	Kg	5	71.00	355.00
12	100x50x6mm MS channel for straight Cross arm 1.8 mtr each 2 Nos @9.2kg/mtr	K.g	33.12	65.00	2,152.80
13	9 Mtr.long 300 KG PSC pole	No	2	3000.00	6,000.00
14	75x40x6 mm MS Channel 1.8 mtr long 2Nos for Providing support for cross bracing at bottom of DP@6.8Kg/mtr	K.g	24.48	65.00	1,591.20

15	50x50x6 mm angle 2.54 mtr long 1mtr long,2Nos for Providing support for cross bracing at bottom of DP@4.5Kg/mtr	K.g	22.86	65.00	1,485.90
16	Dismantal Charges	LS	1	4000.00	4,000.00
H	Total				40,156.90
	Total Part-A+Part-B+PartC=A				1,336,123.89
A	Total				1,336,123.89
B	Stock,storage and insurance (@3% on A)				40,083.72
C	TOTAL RS.(A+B=C)				1,376,207.61
D	T&P @ 2% of C				27,524.15
E	Contigency @ 3% of C				41,286.23
F	Transportation @ 7.5% of C				103,215.57
G	Erection charges @ 5% on Transformers				13,825.00
H	Erection charges @ 20% on PSC pole				27,810.00
I	Erection charges @ 10% on others				123,716.00
J	Total Estimated Cost				1,713,584.56
K	Total Estimated Cost in Figures				1,713,585.00
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 @12%.

Signature of Bidder with seal

Sd/-
Asst. Project Manager (Elect)

Sd/-
APM (Elect) (Hqr)

Sd/-
Joint Manager(Elect)