

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 O BUS STAND AT MOTU IN THE DIST. OF MALKANGIRI.					
BID REF NO.- 33/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.
<b>SCOPE-A</b>	<b>Construction of 3 ph 3 wire 11 KV line using 10 mtr. Long 300 KG PSC Pole with 11 KV 1 core , 100 sq. mm XLPE insulated AAA Conductor and 15 Nos. 9 Mtr. Long 300 KG intermediate supports -0.4 Km</b>				
1	11 KV V Cross Arm(10.2 kg each)	No.	16	810.00	12960.00
2	Back clamp for 11 KV 'V' cross arm	No.	16	80.00	1280.00
3	11 KV F clamp 2.9 kg each	No.	16	240.00	3840.00
4	Disc insulator T & C 45 KN polymer	No.	24	860.00	20640.00
5	H.W Fittings T & C 45 KN	No.	24	130.00	3120.00
6	11KV Pin Insulator porrcelain	No.	56	80.00	4480.00
7	11KV GI Pin	No.	56	80.00	4480.00
8	HT stay set complete	No.	8	1050.00	8400.00
9	11KV stay insulator	No.	8	50.00	400.00
10	HT stay clamp (1.9 kg/pair)	pair	8	125.00	1000.00
11	7/10 SWG stay wire, Grade-2	Kg	64	75.00	4800.00
12	Earthing Device/ support coil type(GI)	No.	4	166.00	664.00
13	GI Base plate(500X500X10 MM) for psc pole (20 Kg)	No.	4	1500.00	6000.00
14	Cocncrete material for stay anchor plate(0.45x0.45x1.5)Mtr.	No.	8	1209.60	9676.80
15	Padding and concreting material for cut-point & 1 Tapping point(0.45x0.45x1.5)Mtr.	No.	4	1209.60	4838.40
16	MS Nut ,Bolt & Washer of different sizes	K.g	10	71.00	710.00
17	Sundries (Paint,Danger board ,clamp,connector,Anticlimbing device ,Binding tape etc	LS	1	1000.00	1000.00
18	100x50x6mm MS channel for straight cross arm 1.2 mtr 16 nos & 0.2 mtr long 8 nos)(9.2 Kg/mtr)	Kg	191.36	65.00	12438.40
19	9 mtr. Long 300 KG PSC Pole(intermediate supports)	No.	15	3000.00	45000.00
20	10 mtr. Long 300 KG PSC Pole(for new line)	No.	4	4500.00	18000.00
21	11 KV 1 core 100 sq. mm XLPE insulated AAA conductor(Unarmoured)	Km	1.236	90000.00	111240.00
22	75x50x6 mm MS channel 1.5 mtr. Long 5 Nos. & 0.25 Mtr. Long 5 nos. for providing support for guarding @ 6.8 Kg/Mtr.	Kg	59.5	65.00	3867.50
23	No.6 GI wire(dia 4.8 mm) @ 20 kg per span & 20 Kg for 2 Nos. of earthing at both sides of DP	Kg	100	75.00	7500.00
24	40 mm nominal bore GI pipe(medium gauge)earthing device with 3 Mtr. Long for 2 Nos. of earthing at both sides of earthing.	No.	2	1050.00	2100.00

25	Materials for Massionary work for earth Pit, Charcoal, Salt etc for earthing	No.	2	1723.31	3446.62
	TOTAL RS.				<b>291881.72</b>
<b>SCOPE-B</b>	<b>Construction of 3 ph 3 wire 11 KV line AB switch .</b>				
1	9 mtr. Long 300 KG PSC Pole	No.	2	3000.00	6000.00
2	100x50x6mm MS channel each 2.8 mtr long 2 Nos. (9.2 K.g per mtr)	Kg	51.52	65.00	3348.80
3	AB switch Mounting Channel (75x40x6)-2.8mtr long 2 nos(6.8 k.g per mtr)	Kg	38.08	65.00	2475.20
4	50x50x6mm ms angle -2.8 mtr long 2 nos & 3.5 Mtr. Long 2 Nois. For providing cross bracing at bottom of DP(4.5Kg per mtr)	Kg	56.7	65.00	3685.50
5	Disc insulator T & C 45 KN polymer	No.	6	860.00	5160.00
6	H.W Fittings T & C 45 KN	No.	6	130.00	780.00
7	AB Switch(11 KV ,400 A,3 pole,50 HZ	Set	1	11850.00	11850.00
8	HT stay set complete	No.	2	1050.00	2100.00
9	11KV stay insulator	No.	2	50.00	100.00
10	HT stay clamp (1.9 kg/pair)	Pair	2	125.00	250.00
11	7/10 SWG stay wire, Grade-2	Kg	20	75.00	1500.00
12	40 mm nominal bore GI pipe(medium gauge)earthing device with 3 Mtr. Long	No.	2	1050.00	2100.00
13	Earthing Device support coil type	No.	2	166.00	332.00
14	No.6 GI wire(dia 4.8 mm)	Kg	20	75.00	1500.00
15	Cocncrete material for stay anchor plate	No.	2	1209.60	2419.20
16	Materials for Massionary work for earth Pit, Charcoal, Salt etc for earthing	No.	2	1723.31	3446.62
17	GI Base plate(500X500X10 MM) for psc pole (20 Kg)	No.	2	1500.00	3000.00
18	MS Nuts & Bolts	K.g	8	71.00	568.00
19	Sundries (Paint,Danger board ,clamp,connector,Anticlimbing device ,Binding tape etc	LS	1	1000.00	1000.00
	TOTAL RS.				51615.32
<b>SCOPE-C</b>	<b>Installation of 63 KVA(BIS Energy Level-II) 11/0.4KV DP mounted sub station using 9 mtr. Long 300 KG PSC Pole alongwith Barbed Fencing (size 8'x12') with 10 nos RCC piller and 3 Ply GI barbed wire &amp; grill gate &amp; locking arrangement.- 1 No.</b>				
1	9 mtr long 300Kg PSC pole	No.	2	3000.00	6000.00
2	Pressure Channel 100x50x6mm MS channel each 2.8 mtr long 2 Nos. (9.2 K.g per mtr)	Kg	51.52	65.00	3348.80
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	3348.80
4	AB switch & HG Fuse,Mounting GI Channel (75x40x6)-2.8mtr long 4 nos(6.8 k.g per mtr)	Kg	76.16	65.00	4950.40
5	Transformer belting Angle 50x50x6mm-2.8 mtr long 2 nos(4.5Kg per mtr)with side angle(Total 7 mtr)	Kg	31.5	65.00	2047.50
6	Disc insulator T & C 45 KN polymer	No.	3	860.00	2580.00
7	H.W Fittings T & C 45 KN	No.	3	130.00	390.00

8	11KV AB switch 3 pole, 50 HZ (200 Amp)	Set	1	7350.00	7350.00
9	11KV HG fuse 3 pole(200 Amp) with PI	Set	1	6120.00	6120.00
10	12KV 10KA LA station class	No.	3	3550.00	10650.00
11	75x50x6 mm MS channel 4 mtr. Long(6.8 kg/mtr.) & 50x50x6 mm MS angle 3.0 Mtr. Long (4.5 Kg/mtr.)for LT Distribution	Kg	40.7	65.00	2645.50
12	LT pin Insulator	No.	8	20.00	160.00
13	Lt GI Pin	No.	8	50.00	400.00
14	LT 3.5 core 95 sq. mm pvc Cable(unarmoured)	Mtr.	15	333.00	4995.00
15	HT stay set (Complete)	No.	2	1050.00	2100.00
16	stay Insulator	No.	2	50.00	100.00
17	Stay clamp	pair	2	125.00	250.00
18	7/10 SWG stay wire, Grade-2	Kg	20	75.00	1500.00
19	GI Pipe earthing 40 Dia Medium gauge 3 mtrs long	No.	3	1050.00	3150.00
20	Earthing of support coil type	No.	2	166.00	332.00
21	No.6 GI wire (dia 4.8 mm)	Kg	30	75.00	2250.00
22	Concrete material for stay anchor plate (0.45x0.45x1.5)mtr	No.	2	1209.60	2419.20
23	Padding and concreting material for support(0.45x0.45x1.5)mtr	No.	2	1209.60	2419.20
24	Materials for Massionary work for earth Pit, Charcoal, Salt etc for earthing	No.	3	1723.31	5169.93
25	GI Base plate(500x500x10 mm) for PSC pole(20 Kg)	No.	2	1500.00	3000.00
26	MS Nuts and Bolts	Kg	25	71.00	1775.00
27	Sundries (Aluminium binding tap,insulating tap,fencing metal spreading,Anticlimbing device ,Paint,Danger Board etc)	LS	1	1000.00	1000.00
28	Fencing size 8'x12' with 10 nos RCC piller and 3 Ply GI barbed wire & grill gate & locking arrangement	LS	1	8440.63	8440.63
29	Sand and metal spreading	LS	1	2532.19	2532.19
30	63 KVA 11/0.4 Kv Transformer(BIS Energy Level-II)	No.	1	86500.00	86500.00
	TOTAL RS.				177924.15
<b>SCOPE-D</b>	<b>Construction of 3 Ph 5 W LT Line with 3x50+1x35+1x166 sq.mm AB Cable over 8 Mtr. Long 200 KG PSC pole .- 0.48 Km</b>				
1	L.T Stay set (Complete )	Set	8	520.00	4160.00
2	7/10 SWG stay wire, Grade-2	Kg	56	75.00	4200.00
3	Cocreting of stay	No.	8	1209.60	9676.80
4	L.T Stay Clamp(1.4 K.g/Pair)	Pair	8	110.00	880.00
5	L.T Stay Insulator	No.	8	30.00	240.00
6	Dead end clamp	No.	8	377.71	3021.68
7	Suspension clamp I Hook	No	8	340.00	2720.00
8	Strain fittings	No	8	72.35	578.80
9	Saundries(paint,binding tape)	LS	1	700.00	700.00
10	Nuts and bolts	No	7	71.00	497.00
11	AB cable(3x50+1x35+1x16 sq. mm)	Km	0.4944	140000.00	69216.00
12	8 Mtr. Long 200 KG psc pole	No	12	2000.00	24000.00
	TOTAL RS.				119890.28
A	TOTAL MATERIAL COST IN RS.				<b>641311.47</b>
B	Stock,storage and insurance (@3% on A)				<b>19239.34</b>

C	TOTAL RS.					<b>660550.81</b>
D	T&P @ 2% of C					<b>13211.02</b>
E	Contingency @ 3% of C					<b>19816.52</b>
F	Transportation @ 7.5% of C					<b>49541.31</b>
G	Erection charges @ 10% of C					<b>71797.33</b>
H	TOTAL RS.					<b>814917.00</b>
I	Labour charges for dismantalling of existing line					<b>2000.00</b>
J						<b>816917.00</b>
K	Total Estimated Cost in Figures					<b>816917.00</b>
EXCESS	<input type="text"/> LESS <input type="text"/> (Please Tick)					_____%
Quoted Amount in Figure						
Quoted Amount in words						
N:B- The Estimated cost is exclusive of GST.						
<b>LIST OF MATERIALS TO BE DISMANTALLED</b>						
1	11 KV V cross Arm	No	3			
2	Back clamp for 11 KV 'V' cross arm	No.	3			
3	11 KV F clamp 2.9 kg each	No.	3			
4	11KV Pin Insulator porrcelain	No.	9			
5	11KV GI Pin	No.	9			
6	9 mtr. Long 300 KG PSC Pole(intermediate supports)	No.	2			
7	34 sq. mm AAA conduc	Km	0.9			

**Signature of Tenderer with seal**

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

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

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

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