

**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 CONSTRUCTION OF TEMPORARY ACCOMODATION FOR CAPF AT BHAINADANI IN THE DIST. OF NUAPADA.**

**BID REF NO.- 17/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.
1	Plinth mounted 11/0.4 KV, 63 KVA S/S with double disc arrangement using 9 mtr. X 300kg PSC Pole.	No	1		
2	11KV line with 3 Ph, 3 wire 55mmsq, AAAC (80 mtr span) and double disc arrangement.	Km	2.6		
3	3 Ph, 11 KV line DP with A.B switch (400 Amp)with double disc arrangement.	No	1		
4	11 KV 3 phase single pole cut point with double disc arrangement.	Nos.	6		
5	1-Ph 2 wire 35mm <sup>2</sup> AB Cable on 8mtr. X 200kg. PSC Pole for LT line (30mtr. Span)	Km	0.8		
6	3-Ph 5 Wire 50 mm <sup>2</sup> AB Cable on 8 mtr. X 200kg. PSC Pole for LT Line.	Km	0.25		
7	Construction of Barbed wire fencing with Grill Gate, Plinth and Metal Spreading.	No	1		
	<b>SCOPE-A</b>				
1	Support PSC Pole 8mtr. Long	No.	33	2360.00	77880.00
2	Support PSC Pole 9mtr. Long	No.	48	3540.00	169920.00
3	Total of Part -A				<b>247800.00</b>
<b>SCOPE-B</b>	<b>Cost of 63 KVA, 11/0.4 KV Transfermer, BEE Star1, BIS energy level-II</b>				
1	Cost of 63 KVA, 11/0 KV Transfermer, BIS energy level-II	No	1	102070.00	102070.00
2	Total of Part -B				<b>102070.00</b>
<b>SCOPE-C</b>	<b>Construction of 3 ph 3 wire 11 KV line with 55 sq. mm AAA Conductor -2.6 Km</b>				
1	55mm <sup>2</sup> AAAC Conductor	Km	7.85	35400.00	277890.00
2	11 KV V-Cross Arm (MS) (10.2 Kg each)	No	37	955.8	35364.60
3	Back Clamp for V Cross Arm (1.7Kg)	No	37	94.4	3492.80
4	11 KV F Clamp 2.9 Kg. each	No	37	283.20	10478.40
5	11 KV Pin Insulator	No	111	94.40	10478.40
6	11 KV GI Pin	No	111	94.40	10478.40
7	H.T Stay set Complete	No	15	1239.00	18585.00
8	Stay Insulator	No	15	59.00	885.00

9	Stay Clamp	Pair	15	147.50	2212.50
10	7/10 SWG Stay wire	Kg.	150	88.50	13275.00
11	Earthing of Support (Coil type)	No	37	195.88	7247.56
12	G.I, Nuts, bolt & washer	Kg	56	92.04	5154.24
13	Concrete material for Stay Anchor Plate	No	15	450.00	6750.00
14	Padding & Concrete material for support	No	37	650.00	24050.00
15	Total of Part -C				<b>426341.90</b>
<b>SCOPE-D</b>	<b>Accessories for 11KV Line DP with AB switch on 9mtr X 300kg PSC pole arrangement</b>				
1	11 kv G.I Pin	No	3	94.40	283.20
2	11 kv pin insulator	No	3	94.40	283.20
3	Top channel 100 x 50 x 6mm <sup>2</sup> - 8mtr, Long -2Nos(9.2kg/mtr)	Kg	51.52	76.70	3951.58
4	A/B switch mounting channel 75x4Cx 6mm 2 x 2.8 mtr, Long (6.8 kg/mtr)	Kg	38.08	76.70	2920.74
5	Bracing channel 75x40x6mm- 2x3mtr Long (6.8kg /mtr)	Kg	40.8	76.70	3129.36
6	Bracing angel 50x50x6mm- 2x4mtr. Long (4.5kg/mtr)	Kg	36	76.70	2761.20
7	Cantilever Channel for supporting A/B switch arm 75x40x5mm. 1.5mtr long, 2nos. (6.8kg/mtr.)	Kg	20.4	76.70	1564.68
8	Angel for contilever arrangement for A/B switch 50x50x8mm. 1.5mtr, 2nos (4.5kg/mtr.)	Kg	13.5	76.70	1035.45
9	75x40x6 mm Channel 1.5mtr. Long 1No (6.5kg/mtr) for supporting of AB switch handle.	Kg	10.2	76.70	782.34
10	11KV Disc Insulator polymer	No	12	1014.80	12177.60
11	11KV H/W Fitting	No	6	153.40	920.40
12	11KV A/B Switch 8 Pole (400Amp)	Set	1	13983.00	13983.00
13	H.T Stay Set Complete	No	4	1239.00	4956.00
14	Stay Insulator	No	4	64.90	259.60
15	Stay Clamp	Pair	4	147.50	590.00
16	G.I pipe Earthing, 40 mm, Dia medium gauge 2.5mtr, Long	No	1	1239.00	1239.00
17	Earthing of Support (Coil type)	No	2	195.88	391.76
18	G.I, Nuts, bolt & washer	Kg	10	92.04	920.40
19	Clamp for bracing channel	Kg	6	76.70	460.20
20	No. 6 G.I wire for Earthing	Kg	3	88.50	265.50
21	7/10 SWG Stay wire	Kg	40	88.50	3540.00
22	Concrete material for Stay Anchor Plate	No	4	450.00	1800.00
23	Padding & Concrete material for support	No	2	650.00	1300.00
24	Material for mechinary work for earth pit	No	1	450.00	450.00
25	Charcoal, Salt etc. for earthing	No	1	400.00	400.00
26	Total of Part -D				<b>60365.21</b>
<b>SCOPE-E</b>	<b>Plinth Mounted 11/0.4 KV S/S using 9mtrs. X 300Kg PSC Pole with double disc arrangement for 63 KVA S/S with LT DistributionBox &amp; MCCD without Transformer</b>				
1	Pressure Channel 100X50X6 mm. 2.8mtr Long 2Nos(9.2Kg/Mtr)	Kg	51.52	76.70	3951.58

2	Transfermer mounting channel 100x50x6mm. 2.8mtr, Long 2nos (9.2Kg/mtr.)	Kg	51.52	<b>76.70</b>	<b>3951.58</b>
3	A/B switch and H.G Fuse mounting channel 75x40x6mm. 2.8mtr, Long 4Nos.(6.8 kg/mtr)	Kg	76.16	<b>76.70</b>	<b>5841.47</b>
4	Transfermer belting 50x50x6mm. Angel- 2.8mtr. Long 2Nos. (4.5Kg/mtr.) with side angel (Total 7 mtrs)	Kg	31.5	<b>76.70</b>	<b>2416.05</b>
5	Angel for mounting L.T Distribution box 50x50x6mm.- 2.5mtr. Long. 2Nos. (4.5Kg./mtr.)	Kg	22.5	<b>76.70</b>	<b>1725.75</b>
6	75x40x6 mm Channel 1.5mtr. Long 1No (6.8kg/mtr) for supporting of AB switch handel.	Kg	10.2	<b>76.70</b>	<b>782.34</b>
7	11 KV Disc Insulator (T & C)	No.	6	<b>342.20</b>	<b>2053.20</b>
8	11 KV H/W fitting (T & C Type)	No.	6	<b>153.40</b>	<b>920.40</b>
9	11 KV A/B switch 3 Pole.	Set	1	<b>13983.00</b>	<b>13983.00</b>
10	11 KV H/G Fuse 3 Pole with PI ( 11 KV 400 Amp)	Set	1	<b>13605.40</b>	<b>13605.40</b>
11	11 KV Lightning Arrestor (12 KV, 5KA)	No.	3	<b>2655.00</b>	<b>7965.00</b>
12	H.T Stay Set Complete	No.	3	<b>1239.00</b>	<b>3717.00</b>
13	HT Stay Insulator	No.	3	<b>64.90</b>	<b>194.70</b>
14	HT Stay Clamp	Pair	3	<b>147.50</b>	<b>442.50</b>
15	7/10 SWG Stay wire	Kg	24	<b>88.50</b>	<b>2124.00</b>
16	G.I pipe Earthing, 40 mm, Dia medium guage 3mtr, Long	No	3	<b>1239.00</b>	<b>3717.00</b>
17	Earthing of Support (Coil type)	Kg	2	<b>195.88</b>	<b>391.76</b>
18	No. 6 G.I wire for Earthing	No.	20	<b>88.50</b>	<b>1770.00</b>
19	Concrete material for Stay Anchor Plate	No	3	<b>450.00</b>	<b>1350.00</b>
20	Padding & Concrete material for support	No.	2	<b>650.00</b>	<b>1300.00</b>
21	Material for mechinary work for earth pit	No	3	<b>400.00</b>	<b>1200.00</b>
22	Charcoal, Salt etc. for earthing	No	3	<b>450.00</b>	<b>1350.00</b>
23	Clamp, Connector & Jumpering material	L.S	1	<b>600.00</b>	<b>600.00</b>
24	G.I, Bolts, Nuts & Washers	Kg.	54	<b>92.04</b>	<b>4970.16</b>
25	Sundries (Aluminium Binding tap, insulating tap, fencing, metal spreading, Anticlimbing device, Paint Danger Board etc.)	L.S	1	<b>1500.00</b>	<b>1500.00</b>
26	L.T distribution box with MCCB, Aluminium busbar for single bay with kitkat fuse for 63 KVA S/S.	No.	1	<b>21619.96</b>	<b>21619.96</b>
27	L.T 3 1/2 Core PVC Cable : 9mtrs. 35mm.sq for 25KVA @ 179.36/-mtrs.. 50mm.sq for 63KVA @239.54/-mtr. 95mm.sq for 100KVA @ 392.94/-mtr.	Mtr.	9	<b>239.54</b>	<b>2155.86</b>
28	Socket & other Cable Accessories	L.S	1	<b>400.00</b>	<b>400.00</b>
29	<b>Sub Total of Part E</b>				<b>105998.72</b>
<b>SCOPE-F</b>	<b>Accessories for 11 KV Single pole cut point and 1 no Tapping Point on 9mtr. X 300Kg PSC Pole with double disc arrangement = 7 nos.</b>				

1	75x40x6mm. Cahannel for Straight Cross-arm (1.2mtr X 4nos.)	Kg.	228.48	76.70	17524.42
2	11KV T&C Disc Insulator	No.	84	342.20	28744.80
3	11KV T&C Hardware fitting	No.	42	153.40	6442.80
4	11KV Pin Insulator	No.	21	94.4	1982.40
5	11KV G.I Pin	No.	21	94.40	1982.40
6	H.T Stay Set Complete	No.	28	1239.00	34692.00
7	H.T Stay Set Insulator	No.	28	59.00	1652.00
8	HT Stay Clamp (1.9 kg/ pair)	Pair	28	147.50	4130.00
9	7/10 SWG Stay wire	Kg	70	88.50	6195.00
10	G.I, Nuts, bolt & washer	Kg.	5	83.78	418.90
11	Earthing of Support (Coil type)	No.	7	195.88	1371.16
12	Padding & Concrete material for support	No.	7	650.00	4550.00
13	<b>Sub Total of Part F</b>				<b>109685.88</b>
<b>SCOPE-G</b>	<b>Accessories for 3-Ph 5 Wire 50mm2 AB Cable on 8mtr. X 200Kg, PSC Pole for LT line (30Mtr. span) =0.25 KM</b>				
1	Arial Bunch Conductor (ABC) with 30x50mm.sq. (for Phase)+ 1x35mm.sq. Catenery (Neutral) + 1x16mm.sq. for street light phase for over head line (30 mtr. Span)	Km.	0.25	165200.00	41300.00
2	Dead and Clamp (For ABC)	Nos.	4	76.70	306.80
3	Suspension Clamp for AB cable	Nos.	5	401.20	2006.00
4	Pole clamp for AB Cable	Nos.	5	236.00	1180.00
5	LT Stay Set	Nos.	2	613.60	1227.20
6	7/12 SWG Stay wire	Kg.	12	88.50	1062.00
7	LT Stay Clamp (1.40 Kg./Pair)	Pair	2	129.80	259.60
8	LT stay Insulator	Nos.	2	35.40	70.80
9	Earthing Coil	Nos.	8	195.88	1567.04
10	No. 8 G.I wire for earthing	Kg.	5	88.80	444.00
11	G.I Nut & Bolts (Assorted size)	Kg.	4.5	92.04	414.18
12	Concreting of stay	Nos.	2	450.00	900.00
13	Padding & Concrete material for support	Nos.	8	650.00	5200.00
14	<b>Sub Total of Part G</b>				<b>55937.62</b>
<b>SCOPE-H</b>	<b>Accessories for 1-Ph 2 Wire 35mm2 AB Cable on 8mtr. X 200Kg, PSC Pole for LT line (30Mtr. span) =0.8 KM</b>				
1	Arial Bunch Conductor (ABC) with 1x.35mm.sq. (for Phase)+ 1x25mm.sq. Catenery (Neutral) + 1x16mm.sq. for wire LT Overhead line	Km	0.8	49560.00	39648.00
2	Dead and Clamp (For ABC)	Nos.	6	76.70	460.20
3	Suspension Clamp for AB cable	Nos.	19	401.20	7622.80
4	Pole clamp for AB Cable	Nos.	19	236.00	4484.00
5	LT Stay Set	Nos.	8	613.60	4908.80
6	7/12 SWG Stay wire	Kg.	48	88.50	4248.00
7	LT Stay Clamp (1.40 Kg./Pair)	Pair	8	129.80	1038.40
8	LT stay Insulator	Nos.	8	35.40	283.20
9	Earthing Coil	Nos.	25	195.88	4897.00
10	No. 8 G.I wire for earthing	Kg.	15	88.80	1332.00
11	G.I Nut & Bolts (Assorted size)	Kg.	30	92.04	2761.20
12	Concreting of stay	Nos.	8	450.00	3600.00
13	Padding & Concrete material for support	Nos.	25	650.00	16250.00

14	<b>Sub Total of Part H</b>				<b>91533.60</b>
A	Toatl (Sub A+B+C+D+E+F+G+H)				<b>1199732.93</b>
B	Stack, Storage & Insurance @ 3% of A		3%		35991.99
C	Sub total -A+B=C				<b>1235724.91</b>
D	T&P @ 2% of C		2%		24714.50
E	Contingency @ 3% of C		3%		37071.75
F	Transportation @ 7.5% of C+GST on Transportation cost		7.50%		103800.89
G	Erection charges @ 20% on Part-A +GST on erection charge		20%		57172.42
H	Erection charges @ 5% of Part-B+GST on erection charge		5%		5887.40
I	Erection charges @ 10% on other materials +GST on erection charge		10%		98040.19
J	<b>Sub Total=</b>				<b>1562412.06</b>
1	Construction of Barbed wire fencing with Grill Gate as per WESCO norms.	No.	1	17140.00	19196.80
2	Metal spreading as per WESCO norms.	No.	1	10000.00	11200.00
3	Plinth with brick masonry as per WESCO norms.	No.	1	13000.00	14560.00
K	<b>Sub Total</b>				1607368.86
L	<b>Total Estimated Cost in Figures</b>				<b>1607369.00</b>
EXCESS <input type="checkbox"/>		LESS <input type="checkbox"/>		(Please Tick)	
Quoted Amount in Figure					
Quoted Amount in words					

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

**Signature of Tenderer with seal**

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

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

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

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