

**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 DISTRICT CIVIL COURT,JAGATSINGHPUR.**

**BID REF NO.- 21/JM/ELECT/OPHWC/2019-20**

Bidder Name	
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**SCHEDULE OF WORKS**

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 with 3C 50 sq. mm 11 KV XLPE armoured cable - 35 Mtr. with interposing of 11 mtr. Long 100X116 MM RS Joist.</b>				
1	11 Mtr. Long 100x116 mm RS Joist pole	No.	2	16445.00	32890.00
2	11KV "V" Cross arm	No	2	810.00	1620.00
3	Back clamp for V Cross arm GI	Pair	2	80.00	160.00
4	11 KV F Clamp GI	No	2	240.00	480.00
5	11KV GI Pin	No	6	80.00	480.00
6	11KV Pin Insulator	No	6	80.00	480.00
7	100x50x6mm GI Channel (1.5 Mx2)	Kg	28.38	75.00	2128.50
8	3 C 50 sq. mm 11 KV XLPE armoured cable	Mtr	75	406.00	30450.00
9	4'(Class-B) GI Pipe for XLPE cable	Mtr	60	540.00	32400.00
10	4'(Class-B) bend	No	4	1200.00	4800.00
11	Heat shrinkable cable end jointing kit for 3 c 50 sq. mm 11 KV XLPE armoured cable(Out door)	Set	4	10949.00	43796.00
12	GI Nut ,Bolt & washer of Different sizes	Kg	30	78.00	2340.00
13	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.	Nos	2.00	676.37	1352.74
14	Padding 900x600x150mm=0.081 cum	Nos	2.00	512.40	1024.80
15	Concreting of support CC (1:4:8) using 40mm. BHG metal size (5'x2'x2'=20Cft.=0:570 CuM)	Nos	2	1999.38	3998.76
16	11 KV LA,(12 KV-10 KA) station class for XLPE Cable	No.	3	3550.00	10650.00
17	GI Pipe Earthing 40 mm Dia medium gauge 3 Mtrs. Long for XLPE cable	No.	1	1050.00	1050.00
18	25x6 GI flat for XLPE cable	Kg	5	75.00	375.00
19	40x6 GI flat for neutral for XLPE cable	Kg	5	75.00	375.00

20	Materials for massonary work for eathpit, charcoal,salt etc including construction of earthing chamber(size : 2"x2") & RCC slab cover	No	1		2270.27	2270.27
21	Earthing of support(Coil type)	No.	2		183.30	366.60
22	GI barbed wire anticlimbing device 2 Kg per support	Kg	4		80.00	320.00
23	Sundries for survey,tree cutting ,small size Nut & bolt ,Aluminium Binding wire /Tape and Danger Board 15 nos.etc .	LS	1		1500.00	1500.00
						<b>175307.67</b>
<b>SCOPE-B</b>	<b>Installation of 250 KVA 11/0.4KV Plinth mounted sub station using 10 mtr long 150x150 mm RS Joist pole - 1 No.</b>					
1	10 mtr long 150x150 mm RS Joist pole	No	2		22490.00	44980.00
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	S/S DP bressing channel 75x40x6 mm MS channel each 2.8 Mtr. Long(6.8 Kg/Mtr.)x2 Nos.	K.g	40		75	3000.00
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	GI 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	GI 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	S/S DP bressing GI Angel 50x50x6 mm MS channel each 2.8 Mtr. Long(4.5 Kg/Mtr.)with side angel total 9 Mtr.	K.g	41		75	3075.00
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	11 HW Fitting(B&S)	No	3		350	1050.00
11	11 KV DISc Insulator (B&S) double disc 70 KN	No	6		390	2340.00
12	11 KV AB switch 3 pole(400A)	set	1		11850.00	11850.00
13	11KV HG fuse 3pole (400A)	No	1		11530.00	11530.00
14	11KV L.A-12KV-10KA station class	No.	3		3550.00	10650.00
15	HT Stay Set (Complete)	Set	4		1050.00	4200.00

16	HT Stay Insulator	No.	4	50.00	200.00
17	HT Stay Clamp(1.95 K.g/Pair)	Pair	4	125.00	500.00
18	7/10 SWG Stay Wire ,Grade-2	KG	40	75.00	3000.00
19	GI Pipe for earthing 40mm dia 3mtr long	No	5	1050.00	5250.00
20	25x6 GI flat	Kg	20	75.00	1500.00
21	40x6 GI flat for nutral	Kg	20	75.00	1500.00
22	Fixing and Concreting 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	4	1753.90	7015.60
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	1999.38	3998.76
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	512.40	1024.80
25	Materials for massonary work for eathpit, charcoal,salt etc including construction of earthing chamber(size : 2"x2") & RCC slab cover	No	5	1719.90	8599.50
26	50 sq. mm XLPE insulated single core cable	Km	0.04	40600.00	1624.00
27	50x6mm copper z clamp for Tfr LT 4 Nos. x0.8 Kg each for connection of LT cable	Kg	3.2	840.00	2688.00
28	Red Oxide Paint	Ltr	4	150.00	600.00
29	Alluminium Paint	Ltr	4	200.00	800.00
30	Black Paint	Ltr	2	220.00	440.00
31	Ms nut bolt & Washer	Kg	36	78.00	2808.00
32	250 KVA 11/4 KV TFR AL 3 star rated	No	1	268450.00	268450.00
33	LT Distrubution Box including kitkat fuse with MCCB for 250 kVA S/S	No	1	48000.00	48000.00
34	3 1/2 x300 mm2 PVC cable for I/C (1 No)250 KVA Tfr.	Mtr	12	994.00	11928.00
35	3 1/2 x300 mm2 PVC cable for O/G (2 Nos.)250 KVA Tfr.	Mtr	40	994.00	39760.00
36	100x116 mm RS Joist 4 Mtr Longx23 kg for resting of LT cable.	Kg	92	65.00	5980.00

37	Plinth for Tfr. 6ft height(below GL 2ft)x5ftx5ft	No	1	12000.00	12000.00
38	Construction of compound wall with brick masonry size(5Mx3M) sand filling and metal spreading,Fixing of Iron Grill gate etc.	No	1	31500.00	31500.00
39	Sundries for survey, PVC tape , ampire tape, danger board ,small size nut & bolt preparation of drawing cable Socket etc.	LS	1	4200.00	4200.00
					<b>570350.16</b>
<b>SCOPE-C</b>	<b>Construction of 3 Ph 5 W LT Line with 3x95+1x70+1X16 sq.mm AB Cable over 9mtr. Long 100X116 MM RS Joist .-0.3 Km</b>				
1	9 Mtr. Long 100x116 mm RS Joist pole	No	1	13455.00	13455.00
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	1	512.40	512.40
3	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	1	2639.18	2639.18
4	L.T Stay set (Complete )	Set	2	520.00	1040.00
5	7/12 SWG Stay Wire	Kg	20	75.00	1500.00
6	Fixing and concreting 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	1753.90	3507.80
7	L.T Stay Clamp(1.4 K.g/Pair)	Pair	2	110.00	220.00
8	L.T Stay Insulator	No.	2	30.00	60.00
9	Conductor Dead end clamp suitable for bare messenger XLPE aerial bunched cable(25-70 sq. mm)	No	6	65.00	390.00
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 AB 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 type-A main 16 to 95 sq. mm & Tap 16 to 95 sq. mm	No	8	80.00	640.00
16	GI Nut ,Bolt	Kg	10	78.00	780.00
17	Earthing (Coil type)	No	1	166.00	166.00
18	AB cable(3x95+1x70+1x16 sq. mm)	Km	0.3	243000.00	72900.00
19	Sundries(survey,tree cutting,insulated tape etc.)	L/S	1	1000.00	1000.00
					<b>102783.82</b>
<b>SCOPE-D</b>	<b>Installation of HT Metering unit with HTVT Meter on existing DP Structure.</b>				
1	Control cable(10 core,2.5 sq. mm copper armoured	Mtr.	15	330.00	4950.00
2	1.5" GI pipe for layout of control cable	Mtr.	15	220.00	3300.00
3	HT bushing Cover	No	6	310.00	1860.00
4	Lightning Arrester(12 KV,10 KA)station class	No	3	3550.00	10650.00
5	GI pipe earthing 40 mm Dia medium gauge 3 Mtrs. Long	No	2	1050.00	2100.00
6	25x6 GI flat	Kg	30	75.00	2250.00
7	Materials for massonary work for eathpit, charcoal,salt etc including construction of earthing chamber(size : 2"x2") & RCC slab cover	No	2	1719.90	3439.80
8	GI Nut ,Bolt& Washer	Kg	10	78.00	780.00
9	Sundries for survey,PVC Pipe(1 inch dia),pvc tape,ampire tape ,small size Nut & bolt preparation of drawing allm.	LS	1	1000.00	1000.00
10	<b>Sub-Total</b>				<b>30329.80</b>
11	Total(A+B+C+D)				<b>878771.45</b>
12	Add GST @ 12%				105452.57
A	<b>TOTAL RS.</b>				<b>984224.02</b>
B	Stock,storage and insurance (@3% on A)				29526.72
C	TOTAL RS.				1013750.74
D	T&P @ 2% of C				20275.01
E	Contingency @ 3% of C				30412.52
F	Transportation @ 7.5% of C				76031.31

G	Erection charges @ 10%				101375.07
H	TOTAL RS.				<b>1241844.66</b>
I	Total Estimated Cost in Figures				<b>1241845.00</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.)**