

Detailed BOQ of 11KV,HT Overhead Power line for Kechhobahal Station of OPGC-MGR

A Supply & Erection of RSJ Poles and PSC Poles including detailed alignment Survey & Tree cutting / Trimming					
Sl. No	Description	Unit	Qty	Rate (in Rs)	Amount (in Rs)
1	Detailed alignment survey and tree trimming work for erection of 11 KV Overhead line as per the instruction of Engineer -In- Charge.	KM	1.50		
2	Supply of 11 Meter 150x150mm RSJ Pole including transportation to site.	No	31.00		
3	Erection of RSJ pole of following lengths 11 meter of metallic pole(RSJ) in cement concrete 1:3:6 (1 cement:3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. for pin point, cut point, DP structure of 11 KV Line as required.	No	31.00		
4	Supply of 9 meter long , PSC intermediate Pole for 11 KV line including the cost of transportation to site	No	66.00		
5	Erection of 09 meter of PSC pole in cement concrete 1:3:6 (1Cement:3 coarse sand:6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. for pin point, cut point,DP structure of 11 KV Line as required.	No	66.00		
Total (A)					
B 11KV line for 1.5KM on 11Mtr 150x150mm RS Joist Pole with 80mm AAAC with 2 Nos. Double poles cut points and double disc					
6	Supplying, paving/ rolling, of 80Sq.mm AAAC conductor of 11KV HT overhead line.	KM	4.73		
7	Top Channel 100x50x6mm,2.8mtr length,4Nos,9.2Kg/Mtr and 50 mm X 6 mm flat iron including 16 mm X 50 mm bolts and nuts with washers.	No	4.00		
8	Supply & Erection of Bracing Channel 75x40x6mm(6.8 kg per metre),3mtr length,4Nos, double pole cross arm including drilling holes for insulator pins/ fittings, bolts, nuts and washers etc	No	4.00		
9	Supply&erection of a set of crossbracing frame work for 11KV O/H line double pole structure having four members fabricated out of 50 mm X 50 mm X 6 mm angle iron to form a rectangle of minimum size 1400 mm width X 2500 mm height, complete with 50 mmX6mm M.S.flat iron clamps, bolts and nuts including drilling holes	No	4.00		
10	Supply and Erection of 11KV,V-Cross arm (MS) (10.2Kg each)with G I Back Clamp,11KV F-Clamp 2.9Kg each (0.85Kg each) on RSJ Poles.	No	17.00		
11	Supply and erection of 11 KV disc insulator for 11 KV over head line with galvanised insulator hardware fittings,3 bolted ball and socket type and complete with galvanised strain clamps, bolts, nuts, washer etc. as required.	No	42.00		
12	Supply and erection of 11 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.	No	60.00		
13	Supply and Erection of Complete HT Stay set including HT Stay Insulator,type-C,HT Stay Clamp(1.9Kg/Pair),7/10 SWG GI Stay wire Grade-2 with required GI Bolts,Nuts and washers and also including earth excavation & Concreting work for providing 11KV,HT Power line	No	15.00		
14	Earthing of support (Coil type)	No	23.00		
15	Cupping of Pole including supply of Materials 1Mx0.5M	No	23.00		
16	Sundries(Paint, Danger Boards,Clamp,Connectors & Anti climbing device)	LS	2.00		
Total (B)					
C 11KV line on 9mtr 300Kg PSC Pole with 80Sq.mm AAAC Conductor with 2 Nos DP Cut points and Double disc arrangement (80Mtr Span)					
17	Supply & Erection of 80 sq.mm AAAC Conductor	KM	2.52		
18	Supply & Erection of Top Channel 100x50x6mm	No	4.00		
19	Supply and Erection of Bracing Channel 75x40x6mm	No	4.00		
20	Supply and Erection of Bracing Angle 50x50x6mm	No	4.00		
21	Supply and Erection of 11KV,V-Cross arm (MS) (10.2Kg each)with G I Back Clamp,11KV F-Clamp 2.9Kg each (0.85Kg each) on PSC Poles.	No	9.00		
22	Supply and erection of 11 KV disc insulator for 11 KV over head line with galvanised insulator fittings, ball and socket type and complete with galvanised strain clamps, bolts, nuts, washer etc. as required.	No	30		
23	Supply and erection of 11 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.	No	33		
24	Supply and Erection of Complete HT Stay set including HT Stay Insulator,type-C,HT Stay Clamp(1.9Kg/Pair),7/10 SWG GI Stay wire Grade-2 with required GI Bolts,Nuts and washers and also including earth excavation & Concreting work for providing 11KV,HT Power line	No	10.00		
25	Earthing of support (Coil type)	No	13.00		
26	Cupping of Pole including supply of Materials 1Mx0.5Mx0.5M	No	13.00		
27	Sundries(Paint, Danger Boards,Clamp,Connectors & Anti climbing device)	LS	1.00		
28	Supplying and erection G.I wire 6 SWG & 8 SWG including binding for cradle guard as per requirement as per IS Rule	No	1.00		
Total (C)					
D Supply &Erection of 3-Ph,11KV line DP with 400Amps Isolator on 11 Mtr long 150x150mm R S Joist pole=3 Nos (Except Pole)					
29	Supply and erection of 11 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.	No	9.00		
30	Top Channel 100x50x6mm, 2mtr long-4 Nos (9.2Kg/mtr)	No	6.00		
31	Top Channel long(6.8Kg/mtr)	No	6.00		
32	Bracing Channel 75x40x6mm-4x3mtr long (6.8Kg/mtr)	No	6.00		
33	Bracing Angle 50x50x6mm-4x4mtr long (4.5Kg/mtr)	No	6.00		
34	Cantilever Channel for supporting A/B Switch arm 75x40x6mm-1.5Mtr long-4Nos (6.8Kg/mtr)	No	6.00		
35	Angle for Cantilever arrangement for A/B Switch arm 75x40x6mm,1.5mtr,4 Nos (4.5Kg.mtr)	No	6.00		
36	75x40x6mm Channel,1.5mtr long-2 Nos (6.8Kg/mtr) for supporting of A/B Switch handle	Kg	3.00		
37	Supply and erection of 11KV Disc Insulator T&C type,45KN	No	36.00		

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38	Supply & Erection of 11KV,400Amps Isolator with out earth witch with PI (Porcelain)	Set	3.00		
39	Supply and Erection of Complete HT Stay set including HT Stay Insulator,type-C,HT Stay Clamp(1.9Kg/Pair),7/10 SWG GI Stay wire Grade-2 with required GI Bolts,Nuts and washers and also including earth excavation & Concreting work for providing 11KV,HT Power line	No	12.00		
40	Supply and erection of three piece nonlinear register type lightning arrestor suitable for 3 wire, 11 KV overhead lines with rated voltage 9 KV(rms) with a nominal discharge current rating of 5 KV and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required. insulator complete with large steel head G.I. pin, nuts, washers etc. as required.	Set	1.00		
41	G I Pipe earthing, 40mm Dia medium gauge 4.5mtr long for earthing of MC	No	6.00		
42	Providing and fixing No.6 G.I wire strip on surface or recess for connections from Earth station to required electrical installation	Mtr	45.00		
43	Cupping of Pole including supply of Materials 1Mx0.5Mx0.5M	No	6.00		
44	Sundries(Anticlimbing device,Paint,Danger Boards)	LS	3.00		
Total (D)					
E	Intermediate material supply and erection for the work "Upgradation of AAAC Conductor from 34/55Sq.mm to 80Sq.mm"				
45	Supplying,Paving/ Rolling, Stringing/ Removal of conductor, mounting of insulator & pin binding and cut pointing & jumpering of 11 KV, 80 Sq.mm,AAA conductor for erection and dismantling of HT overhead line.	KM	15.75		
46	Supply and Erection of 11KV,V-Cross arm (MS) (10.2Kg each)with G I Back Clamp,11KV F-Clamp 2.9Kg each (0.85Kg each) on PSC Poles.	No	50		
47	11KV Pin Insulator	No	150		
48	Earthing of support (Coil type)	No	3		
49	Cupping of Pole including supply of Materials 1Mx0.5Mx0.5M	No	3		
Total (E)					
F	1. Supply & Laying 11KV HT line with 50Sq.mm,AAAC Conductor for 1.3KM stretch 2. Supplying and Laying 3 Core,11KV XLPE Cable on 9 Mtr 300Kg PSC Pole=0.1KM (Except Pole) to Meter Cubicle				
50	Supply of 55 Sq.mm,AAAC Conductor (Supporting wire)	Km	3.90		
51	75x40x6mm Channel for staraight cross arm 1.2mtr long,44Nos(6.8Kg/mtr)	No	44.00		
52	Supply and erection of Pin Insulator	No	20.00		
53	Supply & Erection of 11KV Disc Insulator T&C type,45KN	No	3.00		
54	Earthing of support (Coil type)	No	3.00		
55	Supply of 11KV,50Sq.mm,3 core PVC Shethed,XLPE Cable	Mtr	100.00		
56	Laying of 3 Core, 50Sq.mm PVC Shethed XLPE Cable	Mtr	100.00		
57	Supply & Erection of 11KV out door jointing kit for 50Sq.mm,3 core XLPE Cable	No	2.00		
58	Supply & Erection of 11KV Indoor jointing kit for 50Sq.mm,3 core XLPE Cable	No	2.00		
59	Supply and providing of G I Flat 50x5mm for earthing of Meter Cubicle	Kg	60.00		
60	Supply and providing of G I Pipe earthing, 40mm Dia medium gauge 4.5mtr long for earthing of MC	No	2.00		
61	Construction of metering room 12' X 12' X 14' with all materials and electrical wiring (supply Installation of 4 waysub distribution boards, MCB, switch, sockets, wires, CFL Lamps & ceiling fan as required, installation of LT & HT metering unit and termination) with grill mess arrangement as per the requirement of WESCO	Per Sq Ft Plinth area	196.00		
62	Supplying and erection G.I wire 6 SWG & 8 SWG including binding for cradle guard as per requirement as per IS Rule	No	1.00		
63	Supply & Providing 3phase 4 wire, 3X240V, 100/5A, 0.5 class LTTV meter with 4 nos resin cast CTs with SMC BOX.	No	1.00		
Total (F)					
Grand Total = A+B+C+D+E+F (GST SHALL BE EXTRA AT ACTUALS)					
GST SHALL BE EXTRA ATA ACTUALS, SAC CODE ALONG WITH APPLICABLE % TO BE INDICATED IN THE BID					

#REF!

