

Annexure-I

Per Unit estimate for construction of new 11kV line on SP35 GI Poles & Brackets, Weasel
Conductor for 1KM

A Provision of Materials per KM			
Sl.No.	Materials	Unit	Qty
1	Galvanised Swaged Steel Pole with base plate of thickness 6mm and size of 200mmx200mm square welded at the bottom and with pole cap of 6mm thick to be welded at the top conforming to IS 2713/1980 or the latest version thereof 410 SP-35 of overall length 9.50m	No	18
2	GI Channel 75 x 40 x 5 mm	Kg	712
3	GI Flat Iron 40 x 5 mm	Kg	58
4	G.I. Nut & Bolt 16 x 155 mm full thread conforming to IS : 1364-2 (1992) or any amendments up to date.	Kg	35
5	G.I. Nut & Bolt 16 x 75 mm full thread conforming to IS : 1364-2 (1992) or any amendments up to date.	Kg	25
6	Polymer Composite Silicon Coated Long rod 11kV insulator, 45KN, conforming IEC : 61109	No	60
7	Tension Clamp with hardware strain fitting, 4-bolted type complete with bolts, nuts, and washer (Racoon)	No	60
8	Hard drawn standard aluminium conductors galvanized steelwire reinforced conforming to IS 398(Part-II) with amendment No. 1, 2 and 3 or the latest version thereof bearing ISI mark :ACSR 6/1/2.59mm Weasel.	Km	3.09
9	Jointing Sleeve for Weasel conductor	No	8
10	P.G. Clamp for Weasel conductor (3 bolted type)	No	60
11	11kV Pin insulator with GI Pin conforming IS : 731 (1971), IS : 2486 (1989), IS : 2544 (1973), IS : 5350 (1973) or any amendments up to date.	No	6
12	Lightning Spike made of iron rod, 10 mm size, 1.5 m length, 1 kg welded with MS Flat iron 40x5mm, 0.5kg and 8 SWG GI wire 2.5kg	Loc	5
13	Galvanized steel rod, 2 M length, 19 mm dia connected with GI Wire complete with terminal connector	Loc	5
14	G.I. Stay set complete 19 mm rod dia. with plate 30x30x0.8 cm conforming to IS : 7887 (1992) or any amendments up to date.	No	18
15	Stay wire 7/12 SWG conforming to IS : 2141 (1979), IS : 4826 (1979), IS : 6594 (1974) or any amendments up to date.	Kg	27
16	11kV Guy insulator (140x85mm) conforming to IS : 5300 (1969) or any amendments up to date.	No	18

Annexure-II

**PER UNIT ESTIMATE FOR CONSTRUCTION OF LT NETWORK LINES (ANT & GNAT
CONDUCTOR) FOR 1 KM**

A:	Provision of Materials per KM		
Sl.No	Item	Unit	Qty
1	Galvanised Swaged Steel Pole with base plate of thickness 6mm and size of 200mmx200mm square welded at the bottom and with pole cap of 6mm thick to be welded at the top conforming to IS 2713/1980 or the latest version thereof 410 SP-29 of overall length 9.00m	Nos.	26
2	G.I. Angle Iron 40x40x6 mm	Kg	228
3	G.I. Flat Iron 40mmx6 mm	Kg	53
4	G.I. Stay set complete 19 mm rod dia. with plate 30x30x0.8 cm conforming to IS : 7887 (1992) or any amendments up to date - 1 Nos. including Stay wire 7/14 SWG of suitable length conforming to IS : 2141 (1979), IS : 4826 (1979), IS : 6594 (1974) or any amendments up to date - 12 mtrs	Set.	20
5	LT Guy insulator (90x65mm) conforming to IS : 5300 (1969) or any amendments up to date.	No	13
6	G.I. Nut & Bolt 16 x 75 mm full thread conforming to IS : 1364-2 (1992) or any amendments up to date.	Kg	22
7	M S washer for 19mm dia hole	Kg	1
8	G.I. Nut & Bolt 16 x 50 mm full thread conforming to IS : 1364-2 (1992) or any amendments up to date.	Kg	8
9	Shackle Insulator (Pin/Strap Type) 70x90 mm conforming to IS : 1445 (1977) or any amendments up to date	No	188
10	Shackle Strap for 70x90 mm Shackle Insulator	Pair	56
11	Shackle Nut Bolt 12x100 mm(GI)	Kg	27
12	Pole earthing with ready made Spike 2 M length connected with GI Wire, Nut & Bolt and Welded to Pole	Loc	3
13	P.G. Clamp	No	77
14	Hard drawn standard aluminium conductors conforming to IS 398(Part-I) with amendment No. 1, 2 and 3 or the latest version thereof bearing ISI mark :Conductor AAC,7/3.10 mm Ant	Km	3.10
15	Hard drawn standard aluminium conductors conforming to IS 398(Part-I) with amendment No. 1, 2 and 3 or the latest version thereof bearing ISI mark :Conductor AAC,7/3.10 mm Ant	Km	1.03
16	Hard drawn standard aluminium conductors conforming to IS 398(Part-I) with amendment No. 1, 2 and 3 or the latest version thereof bearing ISI mark :Conductor AAC,7/2.91 mm Gnat	Km	1.03