

Table A-1
Typical transmission line details

Line Voltage	Nominal Span (E/W & Conductors in mtrs.)	Wind Zone as per IS-802 Wind Map of India	Design Tension at Every Day Temp (32° C) and full wind condition – Earthwire)	Wind Pressure (kg/Sq-m) (including gust factor)	Sag – Ground Wire at 0°C, 0 ice and no wind (in mtrs)	Max Sag – Ground Wire at 53°C, 0 ice and no wind (in mtrs)	UTS – Earthwire (in Kg)	Weight – Earth wire (Kg/km)	Minimum Clearance in mtrs.		
									A1	B1	C1
765kV (Horizontal)	400	IV	3000.89	186		11.46	6972	583	8.84	8	9
765kV	400	IV	3775.56	257		11.46	6972	583	8.84	8	9
765kV (S/C-Delta)	425	III	3475.02	220.97		12.77	6972	583	8.84	8	9
765kV (Horizontal)	400	III	2769.16	160.71		11.07	6972	583	8.84	8	9
765kV (D/C)	445	III	4027.59	230		11.97 (75 deg C)	6972	583	8.84	8	9
765kV (S/C)	400	II	2823.16	170.48		11.46	6972	583	8.84	8	9
400 kV	400	II	2546.43	131	8.7	10.2	6972	583	8.84	8	9
		III	3014.75	170							
		IV	3371.83	201							
		V	3639.40	225							
		VI	4038.00	262							
220 kV	350	II	1993.62	131	6.43	7.83	5808	430	7.015	4.9	8.5
		III	2352.14	170							
		IV	2545.72	192							
		V	2825.56	225							
		VI	3126.01	262							
132 kV	320	II	2197.91	131	3.89	5.1	5808	430	6.1	3.9	6.1
		III	2532.55	170							
		IV	2713.09	192							
		V	2975.67	225							
		VI	3257.34	262							

A1 Minimum clearance between conductor and ground (in meters)

B1 Minimum clearance between two phase conductors (in meters) – vertical in case of D/C towers and horizontal in case of S/C towers.

C1 Minimum clearance between conductor and earth wire (in meters)