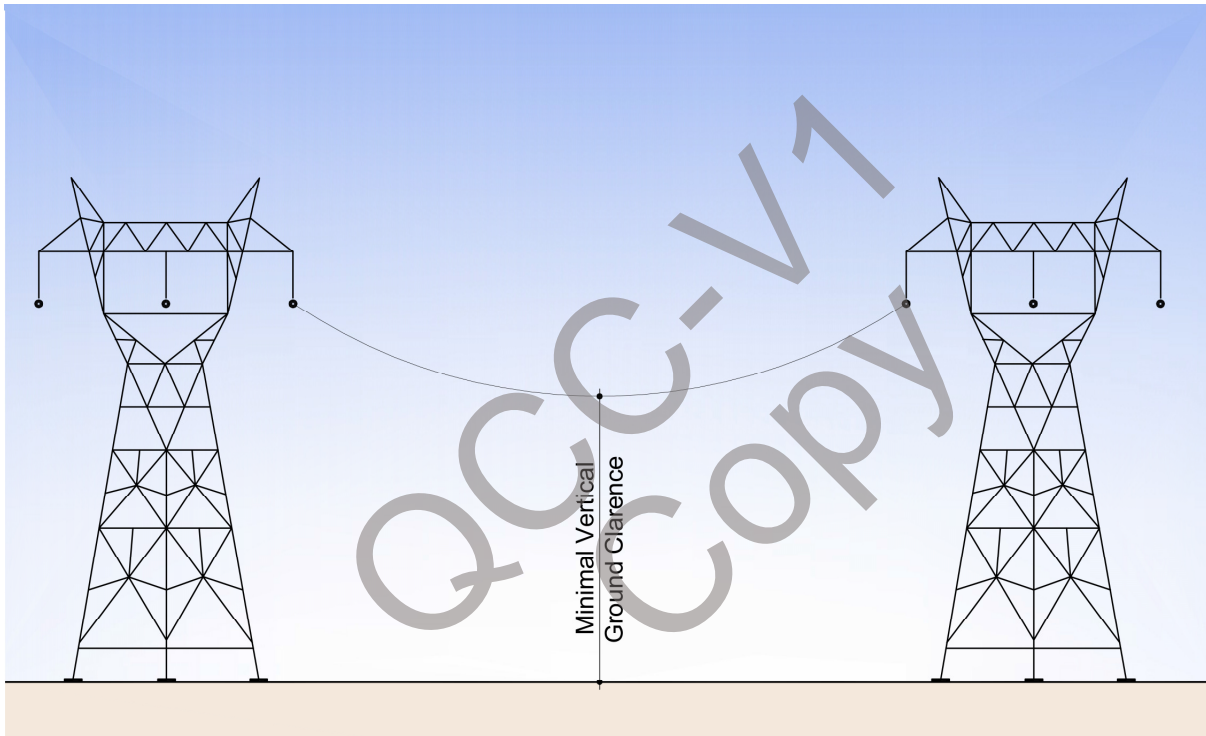


Moreover, in the design of OHTL, adequate vertical ground clearance shall be provided. This is measured from the lowest point of the conductors (sagged point due to gravity) to the ground level. Figure 15 presents the sag curve of a typical 400 kV OHTL.

Figure 15: Sag Curve of a Typical 400 kV OHTL



The minimum vertical clearances between live conductors and other objects with respect to different OHTL are shown in Table 9.

Table 9: Minimum Clearance Requirements (132, 220 and 400 kV OHTL)

Item	Description	Minimum Vertical Clearance (m)		
		132kV	220kV	400kV
1	Normal ground for pedestrians only	7.5	8.0	9.0
2	Residential areas	7.5	8.0	9.0
3	Roads and streets	9.0	9.0	11.0
4	Highways	10.0	16.0	16.0
5	Over pipelines from top of pipe	9.0	9.0	11.0
6	To metal clad or roofed buildings or buildings and structures upon which a man may stand	5.0	6.0	7.0
7	Power lines (above or below)	4.5	5.0	5.0
8	Telecommunication lines	4.5	5.0	5.0