

Regulation 62 of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023

- 1) Clearance from buildings of lines of voltage and service lines not exceeding 650 V. – (1) An overhead line shall not cross over an existing building as far as possible and no building shall be constructed under an existing overhead line.
- 2) Where an overhead line of voltage not exceeding 650 V passes above or adjacent to or terminates on any building, the following minimum clearances from any accessible point, on the basis of maximum sag, shall be observed, namely: –
 - i. for any flat roof, open balcony, varandah roof and lean-to-roof, –
 - a) when the line passes above the building, a vertical clearance of 2.5 metre from the highest point; and
 - b) when the line passes adjacent to the building, a horizontal clearance of 1.2 metre from the nearest point;
 - ii. for pitched roof, –
 - a) when the line passes above the building, a vertical clearance of 2.5 metre immediately under the line; and
 - b) when the line passes adjacent to the building, a horizontal clearance of 1.2 metre.
- 3) Any conductor so situated as to have a clearance less than that specified in sub-regulation (2) shall be replaced with Aerial Bunched Cable and to be attached at suitable intervals to a bare earthed bearer wire having a breaking strength of not less than 350 kgf.
- 4) The horizontal clearance shall be measured when the line is at a maximum deflection from the vertical due to wind pressure.
- 5) The vertical and horizontal clearances shall be measured as per illustration provided in Schedule VIII C.

Explanation. – For the purposes of this regulation, the expression “building” shall be deemed to include any structure, whether permanent or temporary

**Regulation 63 of Central Electricity Authority (Measures relating to Safety and Electric Supply)
Regulations, 2023**

- 1) Clearances from buildings of lines of voltage exceeding 650 V. – (1) An overhead line shall not cross over an existing building as far as possible and no building shall be constructed under an existing overhead line
- 2) Where an overhead line of voltage exceeding 650 V passes above or adjacent to any building or part of a building it shall have on the basis of maximum sag a vertical clearance above the highest part of the building immediately under such line, of not less than, –
 - i. for lines of voltages exceeding 650 V and up to and including 33 kV - 3.7 metre;
 - ii. for lines of voltages exceeding 33 kV - 3.7 metre plus 0.30 metre for every additional 33 kV or part thereof.
- 3) The horizontal clearance between the nearest conductor and any part of such building shall, on the basis of maximum deflection due to wind pressure, be not less than, –
 - i. for lines of voltages exceeding 650 V and up to and including 11 kV - 1.2 metre
 - ii. for lines of voltages exceeding 11kV and up to and including 33 kV - 2.0 metre;
 - iii. for lines of voltages exceeding 33 kV - 2.0 metre plus 0.3 metre for every additional 33 kV or part thereof.
- 4) For high voltage direct current systems, the vertical and horizontal clearances, on the basis of maximum deflection due to wind pressure, from buildings shall be maintained as below:

Sl. No.	High Voltage Direct Current	Vertical Clearance (metre)	Horizontal Clearance (metre)
1.	100 kV	4.6	2.9
2.	200 kV	5.8	4.1
3.	300 kV	7.0	5.3
4.	400 kV	7.9	6.2
5.	500 kV	9.1	7.4
6.	600 kV	10.3	8.6
7.	800 kV	12.4	10.7