

## **CHAPTER VI**

### **LIGHTING AND VENTILATION**

54. **Size of External Openings.**

- a. Every room, other than rooms used for the storage of goods, shall be provided with natural light and natural ventilation by means of one or more openings in external walls. These openings shall have a combined area of not less than ten percent of floor area for habitable rooms and seven and half percent for other rooms, and the whole of such openings shall be capable of allowing free and uninterrupted passage of air.
- b. Area for openings in case of warehouse, godown, storage places etc. shall not be less than five percent of the floor area unless the space is mechanically ventilated.

55. **Size of Internal Openings.** Unless the light and ventilation requirements are met by an air well or ventilation duct, all internal habitable rooms must have openings in internal air wells in addition to door openings not less than seven and half percent of the floor area of such room. Access for maintenance of shaft be provided at level for where the shaft is commence.

56. **Internal Air Wells**

- a. Sizes of internal air wells for daylight and natural ventilation of habitable rooms shall be: -
  - (1) For buildings up to two storeys, 50 sft with min width of well as 5 ft.
  - (2) For buildings with three to five storeys, 100 sft with min width of well as 8 ft.
  - (3) For buildings higher than five storeys, 100 sft plus as 10 sft.
  - (4) For each additional floor over five storeys and the min width of well shall be as 10 ft.
- b. Sizes of internal air wells for daylight and natural ventilation of kitchen, WC and bathroom shall be: -
  - (1) For building upto two storeys, 20 sft with min width of well as 3 ft.
  - (2) For building with 3 to 5 storeys, 40 sft with min width of well as 5 ft.
  - (3) For buildings higher than five storeys, 40 sft plus 5 sft for each additional floor with minimum width of well as 5 ft.
  - (4) Access for maintenance of each such shaft shall be provided at lowest level of the shaft.

57. **Permanent Openings in Kitchen.** Every kitchen shall have openings for permanent ventilation into the external air space not less than fifteen percent of its floor area.

58. **Water Closet, Bath Room and Ablution Places.** Every appliance including water-closet, urinal stall, bathroom or ablution area shall be provided with natural lighting and ventilation with openings in external walls having a combined area of not less than two square feet per appliance except where adequate and permanent mechanical ventilation is provided which discharges into open space.

59. **Garages.** Every garage shall be provided with opening of not less than five percent of the floor area for ventilation and lighting.

60. **Staircases.** Seven and half percent of the staircase area shall be provided with openings for adequate lighting and ventilation of staircases.