

perimeter of the basement shall be provided in the form of grills or breakable stall boards lights or pavement lights or by way of shafts. Alternatively, a system of air inlets shall be provided at basement floor level and smoke outlets at basement ceiling level. Inlets and outlets may be terminated at ground level with stall boards or pavement lights as before but ducts to convey fresh air to the basement floor level shall have to be laid. Stall boards and pavement lights should be in position easily accessible to the fire Brigade personal and rescue teams and clearly marked 'SMOKE OUTLET' or 'AIR INLET' with an indication of area served at or near the opening.

- ii) The basements shall be used for designated purpose only as shown in the plan.
- iii) The basement shall be provided with natural ventilations through the ventilators, open cut outs as shown in the plan.
- iv) The staircases of the basement shall be of enclosed type and entry to basement areas shall be through two hours fire resistance self-closing door provided in the enclosed wall of the staircase and through smoke check / cut off lobby. The smoke check / cut off lobby shall be mechanically pressurized.
- v) Mechanical ventilation shall be provided to the basement with 15 air changes per hour with an arrangement to accelerate the rate of air changes to 30 per hour in the event of a fire emergency.
- vi) The ducts of the mechanical ventilations system shall be of substantial metal gauge as per the relevant I.S. standard.
- vii) The operating switches of the mechanical ventilation shall be located in the fire control room with appropriate zonal indications.
- viii) Exhaust duct shall be provided to draw out exhaust at ground level of the basement.
- ix) Suitable signages shall be provided in basement showing exit direction, way to exits etc.
- x) Automatic sprinkler system shall be provided in entire basement including ramp. These systems shall be installed as per the standard laid down by T.A.C. and relevant I.S. specifications
- xi) Smoke check lobby, Staircases, common passages & escape routes of the entire building shall be painted with fire retardant paint.
- xii) One Dry Chemical Powder fire extinguisher ABC type of 09 kgs. Capacity each shall be kept for every 100 sq. mtrs. area in each basement.
- xiii) Staircase and lift lobby shall have illuminated by inverter operated exits signs with IP 54 enclosure. Luminance of the signages shall be such that they are visible from a distance of 12 to 16 meters.
- xiv) The staircase of the basement & the associated lift lobbies shall be pressurized in the event of fire. The pressure in this enclosed staircase and enclosed lift lobbies shall be maintained not less than 5m.m. W.G. & 2.5 mm W.G. for lift lobbies.
- xv) CO Detector with audible alarm system shall be provided to all the basement areas and the circuit of the same shall be given / connected to mechanical ventilation system to start automatically on actuation of CO detector and the other detectors provided in the basement.
- xvi) Ventilation system shall start automatically on actuation of detector provided in the basement area.

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11/5/17

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