

## MFSS -7

### MINIMUM FIRE SAFETY GUIDELINES FOR INDUSTRIAL BUILDINGS

(Like Refineries, Laboratories, Pumping Stations, Gas Plants etc)

1. Adequate number of **Fire Extinguishers** with periodical maintenance should be provided. After periodical maintenance the expiry date should be affixed on them.
2. **Hose Reel Hose & Nozzle** should be maintained with proper care.
3. **Hydrants Valves and Delivery Hoses** with proper washers should be ensured.
4. **Delivery Hoses** should be tested once in 3 months without fail and record should be maintained.
5. **Manually operated Fire Alarm System, Sprinklers, Detectors** etc and other installations in the buildings should be monitored properly. They should be maintained and records kept.
6. **Fire Pumps** should be in working condition with proper maintenance.
7. **Fire Pumps** should be invariably connected to **alternate source of power** supply having adequate capacity.
8. **Automatic system of the Fire Pumps** should be in operational condition at all the time (24×7).
9. **Daily starting of Pumps and weekly testing of all Equipments should be ensured.**
10. Isolation for **Sprinkler Valves and Main Valves** of Terrace Tank should be kept open at all the times.
11. **Smoke Detectors and Mechanical Smoke Extractors** must work properly.
12. High Hazard Installations, if any, in the same plot of the Building or adjacent shall be asked to have proper fire safety measures.
13. Central Air Conditioning system if any, should be incorporated with all safety measures which shall be maintained in trim condition.
14. Proper Ventilation should be ensured in the periphery of the basement and in the building.
15. Proper Ventilation facilities shall be provided to prevent dust accumulation and subsequent explosion.
16. All the Staircases/Exits/Corridors/Passages should be kept without any hindrance and all the openings to the staircase should be kept in utility, so that the escape during emergency can be made easy.

17. Proper Maintenance of lifts should be ensured.
18. **Fireman Switch** of the lift should be in operative condition.
19. Emergency Lighting Systems in the corridors and escape routes with battery backup should be ensured.
20. **Self illuminated Exit Signs** with independent source of power supply should be provided.( Exits should be seen and identifiable in emergency)
21. Personal protective equipment shall be there for each one entering the Industrial area.
22. Instructions for Industrial / Storage area safety must be displayed inside and outside the workshop.
23. First Aid Kits shall be maintained.
24. Racks, Aisles and Gangways should be provided for machines and tools.
25. There should be Schedule for standard test for machines and tools.
26. All the electrically operated machinery should be properly earthed and bonded.
27. Safety Precautions for operation of each machine should be affixed with it.
28. Open space around the area of the building should be kept free for easy movement of Fire Fighting vehicles during Emergency; any construction/ temporary kiosks strictly are not allowed in the Open Space.
29. Industrial area floor should be made by non-skid non static.
30. Place for disposal of materials should be properly marked.
31. Standard Operating Procedure (S.O.P.) for the all equipment and system must be prepared and properly displayed with the respective machine.
32. Instructions regarding the procedure to be followed in case of an emergency occurring in the building outside the industrial area during the running of any process shall be displayed inside and outside the Industrial area in the form of Do's and Don'ts.
33. Good housekeeping should be ensured. So that fire vulnerable wastes are removed regularly.
34. Various fuel used in the industry shall be stored in minimum quantity according to requirement and the quantity to be checked and marked every day
35. Electrical Equipments/ Installations should be switched off before leaving the building/ before closing.

36. Emergency contact numbers shall be displayed inside and outside the industrial area for contacting in case of any emergency, which should include.
- a. Fire control room
  - b. Medical Assistance
  - c. Security Assistance
  - d. Head of the concerned Department
  - e. Electrical services Department

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- **High Hazard Installations, if any, near the Building shall be asked to have proper Fire Safety measures by giving instructions to the hazardous Building's owner.**
- **Assistance/ help may be taken from this Department to improve the Fire Safety Measures.**

**Sd/-**  
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