

GOVT. OF ASSAM
OFFICE OF THE FIRE & EMERGENCY SERVICES STATION::: TEZPUR
SONITPUR, ASSAM

MEMO NO. TZIP/F & ESS/58/298 /2022

Dated Tezpur the 30th April/2022

To,

Sri Rajinder Moti Chandanani
Proposed (G+6) storied commercial cum residential building
Tezpur University Road, Vill- Harigaon
Tezpur, Assam

Sub: Recommendations for implementation of Fire safety & means of escape measures in your (G+6) multi-storied commercial cum residential (A-4) building on land Under Dag No. 649 & Patta No. 75.

Ref: - Your application dated 19.04.2022 regarding suggestion for Fire safety measures

Respected Sir,

With reference to the above, you are requested to implement the following minimum Fire prevention and fire safety measures in the proposed (G+6) multi-storied commercial cum residential(A-4) building at the above noted location for safety of lives and properties as well as the building itself.

Before occupancy/utilization of the building No Objection Certificate (NOC) should be obtained from the Fire & Emergency services, Assam.

After implementation of the building Fire safety measures, fire safety No objection certificate may be considered.

A. RECOMMENDATION OF MINIMUM FIRE PREVENTIVE AND FIRE SAFETY MEASURES IN THE (G+6) STORIED COMMERCIAL CUM RESIDENTIAL(A-4) BUILDING AS PER NBC 2016:

1. Passage way and clearance:-

- a) Width of main entrance of the premises shall not be less than 4.5 meters.
- b) If an arch or coverage gate is constructed, it shall have a head room clearance of not less than 5 meters.

2. Spaces:

Open spaces around the building shall not be less than 6 meters.

3. Exits:

All exits should be free of obstructions & arranged in such a way that they may be reached without passing through another occupant unit.

4. Pressurization of staircases and lift lobbies

Pressure difference for staircases shall be 50 Pa and for lobbies (corridors) shall be between 25 Pa to 30 Pa. Further, the Pressure differential for enclosed staircase stair case adjacent to lobby shall be 50 Pa.

- a) Pressurization of internal staircase not with external wall – pressurized
- b) Pressurized of internal staircase with external wall – naturally ventilated or pressurized
- c) Lift lobby – naturally ventilated or pressurized

5. Fire doors : The emergency escape routes or staircases shall be protected by a 120 min Fire resisting doors

6. **Lift shaft of the building should be ventilated at the top.** Lift must solid doors with fire resistance of at least one hour.
7. **All lift, Fire pump, external lighting of the building should be connected with standby power supply to make it functional during failure of normal power supply.**
8. Electric wiring of the building shall be either conduit or conceal type.
9. Lighting arrester shall be provided to protect the building from lightning disaster.
10. Separate electric circuit is to be maintained for EXITS /corridor lighting etc., in the building.
11. To eliminate Fire hazard, good housekeeping both inside and outside the building shall be strictly maintained.
12. **Fire drill and Fire order:** - Fire notices/orders prepared to fulfill the requirements of Firefighting and evacuation from the building in the event of Fire and other emergency. The staff/security persons shall be made thoroughly conversant with their action in the event of emergency, by displaying Fire notice at vantage points and also through regular training. Such notices shall be displayed prominently in broad lettering.
13. Emergency exits should be marked with arrow sign to locate the closest exit in case of Fire or any other emergency.
14. Any alteration /modification and change of the building should be informed immediately to the undersigned for taking necessary action.
15. Para-wise compliance report on Fire safety measures installed should be submitted to the undersigned for taking further necessary action.
16. **Emergency telephone numbers** such as Fire, Police, ambulance, electricity etc., should be displayed at prominent places of the building.
17. **One Fire fighting team/search & rescue team** should be prepared to meet any emergency.
18. **Prepare one Disaster Evacuation Plan** of the building for preparedness during any disaster.
19. **P.A. (Public address) system** should be installed in the building.
20. **Water supply & other Firefighting accessories :**
 - a) Terrance tank of 25,000 liters should be provided in the building (exclusive for firefighting purpose) and should connect with the vertical pipe of down comer system.
 - b) Underground water reservoir of 25,000 liters with refilling arrangement should be made available in the front side of the building or any other suitable place. This storage static tank shall entirely be accessible to the Fire engines of the local fire service; provision of suitable numbers of manholes shall be made available for inspection, repairs, insertion of suction hose etc. The covering slab shall be able to withstand the vehicular load of 22.5 tons at any given point when a slab forms a part of pathway/driveway.
 - c) Vertical pipe of the down comer shall be of 100 mm dia pipe.
 - d) Landing valve should be provided in each half landing of the staircases with 63 mm dia instantaneous female coupling (outlet).
 - e) Two lengths of 15 meters rubber lined delivery hose 63 mm dia in a suitable cabinet.
 - f) Branch pipe (preferably hand control branch pipe) fitted with nozzle of 12.5 mm dia.
 - g) Hose reel hose with hose reel point should be provided with each landing valve.

- h) **Manually operated electric Fire alarm** should be provided in the each floor of the building.
- i) **Automatic sprinkler system** should be provided at the ground floor (commercial section) & 1st floor (commercial section) of the building.
- j) Automatic detection & alarm system should be installed at the 1st floor (commercial section) of the building.

21. FIRE PUMP AND PUMP HOUSE

- a) The pump house should be of adequate dimension to house all the pumps with suction, delivery pipes, fittings and starter control panel, air vessel, etc., with adequate circulation area.
- b) One electric pump of capacity 900 liters/min should be provided in the pump house for functioning of Hose reel, down comer system, sprinkler system of the building with minimum pressure of 3.5 kg /cm² in the remotest location of the building. The pump should be connected with standby water supply (D.G. set) in case of failure of normal power supply.

22. Installation of Portable Fire Extinguisher:-

- a) CO₂ or D.C.P. Fire extinguishers of 4.5 kg/4 kg capacity should be installed in each floor of the building in such a way that a person has to travel not more than 15 meter to reach the nearest extinguisher.
- b) 1(one) Mechanical Foam Fire ext. of 9 liters capacity & 1(one) CO₂ of 4.5 kg capacity should be installed near the DG set room.

Please do not treat it as NOC. Formal NOC will be issued only after implementation of the fire preventive measures as per suggestions and on received of compliance report from your end and after satisfactory inspection report of technical officers of this department.

Yours faithfully

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Sr. Station Officer
Fire & Emergency Services Station
Tezpur, Assam

MEMO NO. TZP/F & ESS/58/ *298-99* /2022

Dated: 30/04/2022

Copy to

- 1) The Spl DGP-cum-Director, F & ES, Assam, Ghy for info & N/A

Rup *30/4/22*

Sr. Station Officer
Fire & Emergency Services Station
Tezpur, Sonitpur