



Government Of West Bengal  
Office Of The Director General  
West Bengal Fire & Emergency Services  
13D, Mirza Ghalib Street, Kolkata - 16

Memo no.:FSR/0125186238700466

Date: 10-07-2023

From:

Divisional Fire Officer  
Fire Prevention Wing,  
West Bengal Fire & Emergency Services

To: Sri Manish Nahar, Smt. Pallavi Nishant Doshi, Smt. Jasmine Nahar  
5B, Indian Mirror Street, Kolkata - 700013

Sub: Fire Safety Recommendation for a Proposed construction of G+V storied under group Residential Building at premises no. 5B, Indian Mirror Street, Kolkata – 700013.

This is in reference to your application no. 0125186238700466 dated 13-05-2023 regarding the Fire Safety Recommendation for a Proposed construction of G+V storied under group Residential Building at premises no. 5B, Indian Mirror Street, Kolkata – 700013.

The plan submitted by you was scrutinized and marked as found necessary from Fire Safety point of view. In returning one set of plan with recommendation, this is issuing Fire Safety Recommendation in favor of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

CONSTRUCTION:

- 1.The whole construction of the Proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.
- 2.The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
- 3.Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.
- 4.Roof is used as a refuge area in case of an emergency and it should be clear open for all time. No permanent or temporary structure will be allowed on the roof.

OPEN SPACE & APPROACH:

- 1.The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 20 M.T.
- 2.The width and height of the access gates into the premises shall not be less than 4.5 – 5 M respecting abutting the road.

#### STAIRCASE:

- 1.The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / R.C.C. type having Fire resisting capacity not less than 4 hours.
- 2.The staircase of the building shall have permanent vents at the top and openable sashes at each floor level in the external wall of the building.
- 3.The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conform the relevant building rules and well as rules.
- 4.The staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

#### FIRE FIGHTING WATER:

- 1.Overhead water reservoir of 25,000 ltrs for exclusively for Firefighting purpose with replenishing arrangements @ 900 ltrs./min. Preferably from two different sources of water supply shall be provided. The water reservoir shall have overflow arrangement with the domestic water reservoir as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.

#### HYDRANT SYSTEM:

- 1.The building shall be provided with 100 mm. Down comer along with hose reel hose connected to terrace tank through the terrace pump 900 LPM capacity and one same capacitated stand-by pump and provided one 100mm. internal diameter Pipe Line for with provision of landing valves at the Staircase landings / half landings at the rate of one such down comer for 1000 Sq. m. of floor area. The system shall be so designed that shall be kept charged with Water all the time under pressure and shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conform I.S. 3844 – 1989.
- 2.Both fire pumps should be in Auto mode.
- 3.Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.
- 4.Provision for delivery hose, short branch in a hose box & Hose Reel units with high pressure gun on swiveling drum in conjunction with Down comer shall be made near each landing valves.
- 5.Provision of suitable Fire Service Inlet shall be made as per relevant I.S specification.

#### AUTOMATIC SPRINKLER INSTALLATION:

- 1.Automatic Sprinkler installation to be provided in entire Ground Floor & 1st floor Commercial Area.

#### ELECTRICAL INSTALLATION & DISTRIBUTION:



1.The electrical installation including transformers, Switch Gears, Main & Meters etc. and the distribution system of the premises shall be made satisfying the code of practice for Fire safety in general building as laid down in I.S. specification 1946 – 1982.

2.The electrical installation shall be adequately protected with CO2/D.C.P. Fire Extinguishers

3.All Electrical Duct Should be sealed with 2 hrs fire resistance board in each floor level & should be enclosed by FCD.

4.Alternative Power Supply:

Arrangements shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Pump for deep Tube-well, Fire Alarm System, etc. and also for illuminating the Staircase, corridors etc. and other places of the building in case of normal power failure.

#### DETECTION AND ALARM SYSTEM:

1.Manually operated Electrical Fire Alarm system with at least three numbers of break glass type call boxes fitted with Hooters along with public address system, at each floor connecting with audio-visual panel board shall be made in Control Room. The Control Room shall be located at the entrance of Ground Floor of the building, other requirements of the system shall be made conforming I.S. 2189 – 1988.

2.Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will be sounded on the same floor and immediate alternate floor.

3.Smoke detector to be provided in Ground floor & 1st floor commercial area, & inside of all electrical duct.

#### FIRST AID FIRE FIGHTING SYSTEM:

First Aid firefighting arrangement in the style of placing suitable type of portable Fire Extinguishers, Fire Buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190 – 1992.

#### GENERAL RECOMMENDATIONS:

1.Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

2.Floor numbers and directional sign of escape route shall be displayed prominently.

3.The employees and security staff shall be conversant with installed Fire Fighting equipment's of the building and to operate in the event of Fire and Testing.

4.Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and

equipment's installed in the building to keep them in perfectly good working conditions at all times.

5. A trained Fireman shall be maintained round the clock for safety of the building.

6. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.

N.B.: Any deviation and changes the nature of use of the building in respect of the approved plan drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Validity unknown

Digitally Signed  
Name: NIHAR RANJAN ROY  
Date: 10-Jul-2023 12:13:33  
Reason: Approved  
Location: West Bengal

Divisional Fire Officer  
West Bengal Fire & Emergency Services

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