



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

Memo no.:FSR/0125186221500057

Date: 29-04-2022

From:
Director
Fire Prevention Wing,
West Bengal Fire & Emergency Services

To: Tusar Kanti Mondal
S/O Khagendra Nath Mondal, TANTIGERIA TAUN COLONI, Medinipur E (M), Paschim Medinipur, West Bengal,
721102

Sub: Fire Safety Recommendation in respect of proposed construction of one number of B+G+6 storied under group Residential Building at Mouza- Ruisanda, J.L. No.- 211, R.S. and L.R. Plot No.- 24(P), P.S.- Kharagpur (I), District- Paschim Medinipur, Pin Code- 721305, West Bengal.

This is in reference to your application no. 0125186221500057 dated 14-03-2022 regarding the Fire Safety Recommendation in respect of proposed construction of one number of B+G+6 storied under group Residential Building at Mouza- Ruisanda, J.L. No.- 211, R.S. and L.R. Plot No.- 24(P), P.S.- Kharagpur (I), District- Paschim Medinipur, Pin Code- 721305, West Bengal.

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 Entire Existing Building shall be as per approved plan drawings conforming the relevant building rules of local Body & N.B.C. of India (Part-4) 2016.
- 2.The floor area exceeds 750 m² shall be suitable compartmented by separation walls up to ceiling level having at least Two hours Fire resisting capacity or by using Water Curtains.
- 3.The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. 1642 :2013 specifications.
- 4.Provision of ventilation at the crown of the central core-duct (if constructed) of the buildings shall be provided.

5. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity & the doors of service ducts / shafts shall be of minimum 2 hours Fire Resistance Rating.

OPEN SPACE & APPROACH:

1. The open spaces surrounding the building shall be as per the approved plan/drawing.
2. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 Ton.
3. The minimum width and height of the access gates into the premises shall not be less than 4.5 and 5 Meters respecting to abutting the road.

STAIRCASE:

1. The staircases of the building shall be enclosed type. Entire construction shall be made of bricks / RCC type having Fire Resisting Capacity not less than 4 hours.
2. The staircase of the building shall have permanent vents at the top and open able sashes at each floor level in the external wall of the building.
3. The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall conform the relevant building rules as well as rules of the relevant acts/rules with up to date amendments.

FIRE FIGHTING WATER :

1. As shown in the submitted Plan/drawing Under Ground Water Reservoir of 50000 Ltrs. water capacity and Over Head Fire Fighting Water Reservoir having water capacity of 25000 Ltrs. Exclusively for Fire Fighting purposes shall be provided and to be kept full at all time.
2. The Fire water reservoirs shall have overflow arrangement with the domestic water reservoir as well as to avoid stagnancy of water.
3. Provision of necessary manhole shall be made on the top of this reservoir as per specification of N.B.C. (Part-4) of India 2016.
4. Provision of replenishment for both U.G.W.R. and O.H.W.R. at the rate of at least 1000 lts./min. from two separate source of water supplies shall be made.
5. The deep tube well or any other Pump provided for the replenishment of the reservoirs shall be incorporated with auto starting facility with actuation of auto detection and suppression arrangement of the premises and shall also be connected with dual / alternative power supply units.

WATER LAYOUT SYSTEM:

1. The buildings shall be provided with Down Comer System through 100 mm internal Diameter pipe lines at the rate of one such Down Comer for each Block. The system shall be so designed that shall be kept charged with Water all the time under pressure and capable to discharge 900 L.P.M. of water at rated pressure at the furthest and at the top most outlet as well. In no case the running pressure shall be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.
2. Provision for Hose Reel units on swivelling drum in conjunction with Down Comer shall be provided on each floor according to the I.S. 3844 – 1989.
3. Adequate Nos. of Fire Service Inlet shall be provided at the strategic locations of the building.

FIRE PUMPS:

1. Fire Pumps Electric Driven of capacity 900 L.P.M. to be provided at the Terrace Level to keep the Water Based system

under pressurized condition at all the time.

2. Fire Pump shall be incorporated with both manual and auto starting facilities. The suction of Fire Pumps shall preferably be of positive type.

3. Fire Pump shall be provided in accordance with IS 15301:2003 with alternative power supply to drive in case of normal power failure.

SPRINKLER INSTALLATIONS:

1. The entire Basement shall be protected by Auto Sprinklers System according to the I.S. 15105:2002 standard and considering provision of the National Building Code of India (Part 4) 2016.

2. The said Auto Sprinklers System shall be integrated with the O.H.W.R. and suitable Pumping Network.

ELECTRICAL INSTALLATION & DISTRIBUTION:

1. The electrical installation including 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 1646 – 1982.

2. Electrical distribution system shall conform all the requirements as laid in I. S. 1646-1982.

3. The electrical installation shall be adequately protected with automatic CO2/D.C.P. Fire Extinguishing Medium.

4. All electrical installation viz. Transformer Switch Gear L. T., H. T. rooms shall be protected with both auto detection and suppression systems as per suitability.

5. Alternative Power Supply : Arrangements shall have to be made to supply power with the help of adequate capacity's diesel generator to operate at least the Fire Pumps, Pump for deep Tube-well, Fire Alarm System, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with at adequate numbers of break glass type call boxes fitted with Hooters along with public address system and Call Back Systems at each floor and every 30 Mtrs. interval connecting with audio-visual panel board shall be provided and to be connected with a Control Room. The Control Room shall be located at the entrance of Ground Floor of the building.

2. Hooter shall 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.

PUBLIC ADDRESS SYSTEM :

Devices of Good and reliable Public Address System linked between all floors and Control Room shall have to be established.

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. 2190-92.

FIRE COMMAND STATION:

There shall be at least One Fire Command Station preferably in a prominent location manning by experienced persons containing 1) Adequate illumination systems 2) Adequate communication to mechanical equipment room and lifts control room on each floor 3) Copy of Fire Safety Plan 4) Copy of Building Information Form 5) Representative floor plans showing

location of signs, floor remote station, communications, etc. and 6) First Aid Fire Fighting Equipment.

GENERAL RECOMMENDATIONS:

1. Disposable type B. A. Masks always to be kept in the buildings for emergency fire situation.
2. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
3. Floor numbers and directional sign of escape route shall be displayed prominently.
4. The occupancy 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.
5. 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.
6. A crew of trained Fire Fighters under an experienced Fire Officer shall be available in the premises round the clock for safety of the buildings.
7. Mock Fire Fighting Exercise and Evacuation Drill shall be performed periodically with participation of all occupants of buildings.

After fully compliance of all the above Fire and Life safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installations, Fire Safety Certificate in favor of the occupancy shall be issued on being satisfied with the tests and performances of safety provisions and installations of the buildings.

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

Director
West Bengal Fire & Emergency Services