



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

Memo no.:FSR/0125186211200041

Date: 30-04-2021

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

To: DR VIJAY SINGH BAID
THAKURPUKUR 700104

Sub: Fire Safety Recommendations for one number of proposed G+4 Storied under Group Residential (Apartment Type) Building of DR VIJAY SINGH BAID at Mouza- Paschim Barisha, J.L. No. 119, Dag No. 2122 & 2143, P.S.- Thakurpukur, District- 24 PGS (South) under Ashuti Gram Panchayet (2), Kolkata- 700104.

This is in reference to your application no. 0125186211200041 dated 30-01-2021 regarding the Fire Safety Recommendations for one number of proposed G+4 Storied under Group Residential (Apartment Type) Building of DR VIJAY SINGH BAID at Mouza- Paschim Barisha, J.L. No. 119, Dag No. 2122 & 2143, P.S.- Thakurpukur, District- 24 PGS (South) under Ashuti Gram Panchayet (2), Kolkata- 700104.

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 G+3 Storied Business Occupancies shall be as per approved plan drawings conforming the relevant building rules of local Municipal 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.
- 3.The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. 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 conform the relevant building rules as well as permit easy accessibility and maneuverability of Fire Appliances with turning facility.

2. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.

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 the relevant Acts with up to date amendments.

4. All the staircases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

5. Fire & Smoke Check Doors at the entrance of all the staircase/lift lobby enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of the least Two hour Fire resisting rating with Wire Glass Window fitted with self-closing devices and operable in the direction of escape.

FIRE FIGHTING WATER :

1. Over Head Fire Fighting Water Reservoir having water capacity of 25000 Ltrs. exclusively for Fire Fighting purpose 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.

4. Provision of replenishment at the rate of at least 1000 lts./min. from two separate source of water supplies shall be made.

5. The deep tube wells for the replenishment of the reservoir if any, 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:

1The buildings shall be provided with Down Comer System on Minimum 100mm. internal diameter Pipe Line with provision of landing valves at the Staircase landings / half landings at the rate of one such riser 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 capable to discharge 900 ltrs./min. at the ground floor level outlet and at the top most outlet. In both cases the running pressure shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.

2Provision for Hose Reel units on swivelling drum, Delivery hoses in hose box, Short Branch in conjunction with Wet Riser shall be provided near each landing valves on each floor of the building.

3Provision of Fire Service Inlet to be made in accordance with relevant I.S. specifications.

FIRE PUMPS:

1.As per provisions of the N.B.C. of India (Part-4) 2016, One Set of Fire Pumps consisting of One Electric Driven of capacity 900 L.P.M. and One Stand-by of capacity 900 L.P.M. to be provided at the terrace level to supply water at the rate-designated pressure and discharge into the Down Comer System

ELECTRICAL INSTALLATION & DISTRIBUTION:

1The 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 1646 – 1982.

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

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

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

5Alternative 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 assembly 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 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.

FIRSTAID FIRE FIGHTING SYSTEM:

First Aid fire fighting 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.

8 Necessary Fire License shall be obtained from Department of Fire & Emergency Services for the Gas Bank.

9 After stipulated time a certificate has to be obtained from the Director General, West Bengal Fire & Emergency Services about the satisfactory services, performance of all the Life and Fire Safety arrangements and installation of the building.

10. On 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 cancelled.

Director
West Bengal Fire & Emergency Services

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