



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

Memo no.:FSR/0125186241300001

Date: 21-02-2024

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

To: TAPAN KR. BANERJEE
15/2, ANDUL ROAD, HMC WARD NO- 41, BOROUGH- VII, SHIBPUR, HOWRAH- 711109

Sub: Fire Safety Recommendation for proposed construction of G+VII storied building under group of Residential Building at the premises no. 15/2, Andul Road, Ward no. 41, Borough VII, P.S. Shibpur, Dist. Howrah, PIN 711109, under Howrah Municipal Corporation, within L.R. Dag no. 12, 13, 14 & 48, Khatian no. 11 & 74, Sheet no. 109, 133, Mouza Shibpur.

This is in reference to your application no. 0125186241300001 dated 02-01-2024 regarding the Fire Safety Recommendation for proposed construction of G+VII storied building under group of Residential Building at the premises no. 15/2, Andul Road, Ward no. 41, Borough VII, P.S. Shibpur, Dist. Howrah, PIN 711109, under Howrah Municipal Corporation, within L.R. Dag no. 12, 13, 14 & 48, Khatian no. 11 & 74, Sheet no. 109, 133, Mouza Shibpur.

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:

A.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 of low flame spread materials conforming to I.S. specifications.
- 3.Provision of ventilation at the crown of the central core-duct of the building shall be provided.
- 4.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 of 2hr. Fire rating.
- 5.Fire Check Door shall have to be provided at the enclosure of Office at 1st floor level as shown/marked in the plan drawing.

B.OPEN SPACE & APPROACH:

- 1.The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and

manoeuvrability 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 width and height of the access gates into the premises shall not be less than 4.5 and 5 M respecting abutting the road.

C. STAIRCASE:

1. The staircases of the building shall be enclosed type, entire construction shall be made of brick / R.C.C. type having Fire resisting capacity not less than 4 hours respectively marked in the plan.

2. The width of the staircases and corridor and travel distance of different categories of occupancies shall have to conform the relevant building rules.

3. Considering the staircases are only means of evacuation, emergency lighting arrangement directional, exit, sign etc. shall be made conforming the relevant I.S. Code in this regards.

D. LIFT:

1. The walls of the lift enclosure of the building shall be at least two hours FIRE resisting type and lift shaft shall be pressurized as pre-existing norms and provision of NBC Part IV, 2016.

2. All the lifts of the building shall be designed as high speed "FIRE LIFT" and shall be conspicuously indicated / marked.

3. The Electric power shall be from separate supply mains in the building and cables run with in the lift shafts, light and fans in the lift cars shall be operated from 24 volts, supply on emergency in case of failure of normal power supply lift shall automatically trip over alternate power supply.

E. FIRE FIGHTING WATER :

Under Ground Water Reservoir of 20,000 ltrs capacity and Over Head Water Reservoir of 25,000 ltrs capacity exclusively for firefighting purpose with replenishing arrangements @1000 ltrs/min. preferably from two different sources of water shall have to be provided. The water reservoirs shall have overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water. The water reservoirs shall be kept full at all time.

F. WATER LAYOUT SYSTEM:

1. The buildings shall be provided with Down comer of 100 mm dia internal diameter Pipe Line each 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 farthest outlet. In both cases the running pressure shall not be less than 3.5 Kgs/Sq.cm. All other requirements shall be conforming I.S. 3844 - 1989.

2. Provision for Hose Reel units in conjunction with Down comer shall be made near each landing valves.

3. Provision of adequate numbers of Yard Hydrant with at least one number Fire Service Inlet shall be installed surrounding the building in accordance with relevant I.S. specifications.

G. FIRE PUMP:

1. Provision of the Fire Pump shall have to be made to supply water at the rate-designed pressure and discharge into the Water based system, which shall be installed in the building.

2. One such pump shall always be kept on stand-by.

H. SPRINKLER:

1. Auto Sprinkler system shall have to be provided in Office at Ground floor and in Community Hall & Office at 1st floor level.

I. 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. 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.
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 Pumps, Pump for deep Tube-well, Fire Alarm System, lifts, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building incase of normal power failure.

J. DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with at least one number of break glass type call boxes fitted with Hooters at each floor in each block connecting with audio-visual panel board 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.
3. Auto smoke detection system shall have to be provided in Office at Ground floor and in Community Hall & Office at 1st floor level
4. Fire Control Room / Security Room: (i) A well designed control room with C.C.T.V. surveillance system and Fire Control Panel and monitoring 24X7. (ii) There is need to have a clear policy and proper implementation of emergency evacuation measures.

K. FIRTAID 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.

L. GENERAL RECOMMENDATIONS:

1. Driveway must be free from any obstacles for ease access of Fire Tenders and car parking shall not be permitted on the clear driveway.
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 equipments 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 equipments installed in the building to keep them in perfectly good working conditions at all times.
6. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
7. The certificate has to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Life and Fire Safety arrangements and installation of the building.

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 installation, Fire Safety Certificate in favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

N.B. : Any deviation and changes the nature of use of the building in respect of the approved plan drawings, without

obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Validity unknown

Digitally Signed
Name: ABHJIT PAUL
Date: 21-Feb-2024
Reason: Approved
Location: West Bengal



DIRECTOR
West Bengal Fire & Emergency Services

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