



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

Memo no.:FSR/0125186218701010

Date: 07-12-2021

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

To: RANAJIT CHATTERJEE
23, GOPAL CHANDRA CHATTERJEE ROAD, KOLKATA-700002

Sub: Fire Safety Recommendation for proposed construction of a G+VII storied under group Residential Building at premises no. 23, Gopal Chandra Chatterjee Road, under K.M.C., P.S. Cossipore, Kolkata – 700 002.

This is in reference to your application no. 0125186218701010 dated 24-11-2021 regarding the Fire Safety Recommendation for proposed construction of a G+VII storied under group Residential Building at premises no. 23, Gopal Chandra Chatterjee Road, under K.M.C., P.S. Cossipore, Kolkata – 700 002.

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 Kolkata Municipal Corporation.
- 2.The interior finish decoration of the building shall be made low flame spread materials conforming relevant 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 made for sealing all the vertical &horizontal ducts by the materials of adequate Fire resisting capacity.

B.OPEN SPACE & APPROCH :

- 1.The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire Appliances with turning facility.
- 2.The approach roads shall be sufficiently strong to withstand the load of Fire Engine Weighing up to 45 M.T.
- 3.The width and height of the access gates into the premises shall not less than 5.5 Mt. X 5.5 Mt. of respecting abutting the road.
- 4.All around the driveway should be kept clear for free access.

C. STAIRCASE:

1. The staircase of the building shall be made of Bricks/R.C.C type having Fire resisting capacity not less than 2 hours.
2. The Staircase of the buildings shall have permanent vents at the top and openable sashes at the each floor level in the external wall of the building.
3. The width of the staircases shall be made as shown/marked in the plan. Exit doors shall conforming the relevant building rules with up-to-date amendments.
4. The staircases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any occupied area.
5. Fire and smoke doors at the entrances of all the staircase enclosures as marked in the plan at each floor level shall be provided. The F.C.D shall be of at least two hour Fire Resisting wire glass window fitted with self-closing type openable in the direction of escape.

D. LIFT :

1. The walls of the lift enclosure shall be at least two hours Fire resisting type. Collapsible gate shall not be permitted.
2. One of the lift shall be designed for Fire Lift. The word "FIRE LIFT" shall conspicuously written at ground floor.

E. REFUGE AREA :

1. Refuge area is not less than as shown/marked in the plan and shall be provided on the external wall with cantilever projection or other suitable means at +23.805 Mt. level at the half landing towards roof.
2. The refuge area shall be of Fire Resisting construction and protected with self closing F.C.D. at the entrance from the corridor or the staircase lobbies.

F. FIRE FIGHTING WATER :

Underground Water Reservoir of 50,000 Lt. for firefighting purpose for the building and Overhead reservoir of 12,000 Lt. capacity exclusively for Firefighting purpose with replenishing arrangements @ 1000 Lt/min. preferably from two different sources of water supply shall be provided. The water reservoir shall be kept full at all time and the Fire Water Reservoir shall have overflow arrangement with the domestic Water Reservoir to avoid stagnancy of water.

G. HYDRANT SYSTEM :

1. The building shall be provided with Down Comer of 100 mm internal diameter Pipe Line with provision of landing valves at the Staircase landings/half landings along with hose reel hose connected to terrace tank through the terrace pump at 900 LPM capacity. The system shall be so designed that shall be kept charged with water at all the time under pressure and shall not be less than 3.5 Kg/Sq. cm. One another such terrace pump of equal capacity shall be installed as Stand By Fire Pump. All other requirements shall conforming I.S. 3844-1989.
2. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.
3. Provision for Hose Reel in conjunction with Down Comer shall be made at each floor level conforming the relevant I.S. specifications.
4. Yard Hydrant provision with one number Fire Service inlet shall be installed inside the building premises in accordance with relevant I.S. specification.

H. SPRINKLER INSTALLATION :

The automatic Sprinkler installation shall be provided in whole M.L.C.P. with covered parking area at Ground floor, community hall, pantry and gym area of the building as per I.S. specification 9972. Alarm gong to be incorporated along with the Sprinkler System. A testing line of sprinkler shall be made at roof level for routine testing.

I. ALARM, DETECTION AND SUPPRESSION SYSTEM

1. Manually operated Electrical Fire Alarm System of 2 Nos. of break glass type call boxes fitted with Hooters along with Public Address System at each floor connecting with visual panel board. Hooters will be sounded on the same floor and immediate alternate floor. The visual panel board shall be provided at Control /Security Room entrance of ground floor of the building.

2.Auto Fire detection system with the help of Smoke Detector shall be installed in below and above false ceiling at the Ground floor both parking area and 1st floor in the community hall, pantry service room, gym of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirement of the system shall be made in accordance with I.S. 2189-1988.

3.The suppression system shall be made with Fire Extinguisher in computer, D.G. area, Electrical processing and data room and in a room of irreplaceable articles.

4.Close Circuit T.V. shall have to be provided for the entire floor area of the building.

J.ELECTRICAL INSTALLATION & DISTRIBUTION:

1.Electrical distribution system of the building shall be made in the form of concealed wiring or in heavy gauge M.S. conduit, continuously bonded to the earth. Cables shall be I.S. marked and preferably be of F.R.L.S. categories.

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

3.The vertical & horizontal electrical ducts shall be sealed at each floor level by Fire fire resisting materials.

K.Alternate 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 (if provided), Fire Alarm System, etc. and also for illuminating the Staircase, passage etc. and other places of assembly of the building in case of normal power failure.

L.FIRST AID 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. 2190-1992.

M.GENERAL RECOMMENDATIONS:

1.Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles (If any).

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 the building.

On compliance of all the above Fire and Life Safety Recommendation, 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 drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Director
West Bengal Fire & Emergency Services