



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

Memo no.:FSR/0125186241200070

Date: 18-03-2024

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

To: MRS. TUHINA SK
MOUZA-JAGADDAL, L.R.DAG NO.-1473, R.S.DAG NO.-1279, L.R.KHATIAN NO.-2570, R.S.KHATIAN NO.-672, J.L.NO.-71, HOLDING NO.-115, P.S.- SONARPUR, WARD NO -24, STREET-DWARIR ROAD, SOUTH 24 PGS, PIN CODE-700151.

Sub: Fire Safety Recommendation for Proposed Construction of One no. G+IV and One No. G+IV Storied under group Residential Buildings namely Block-I and Block- II respectively at premises No.- MOUZA-JAGADDAL, L.R.DAG NO.-1473, R.S.DAG NO.-1279, L.R.KHATIAN NO.-2570, R.S.KHATIAN NO.-672, J.L.NO.-71, HOLDING NO.-115, P.S.- SONARPUR, WARD NO -24, STREET-DWARIR ROAD, SOUTH 24 PGS, PIN CODE-700151

This is in reference to your application no. 0125186241200070 dated 06-02-2024 regarding the Fire Safety Recommendation for Proposed Construction of One no. G+IV and One No. G+IV Storied under group Residential Buildings namely Block-I and Block- II respectively at premises No.- MOUZA-JAGADDAL, L.R.DAG NO.-1473, R.S.DAG NO.-1279, L.R.KHATIAN NO.-2570, R.S.KHATIAN NO.-672, J.L.NO.-71, HOLDING NO.-115, P.S.- SONARPUR, WARD NO -24, STREET-DWARIR ROAD, SOUTH 24 PGS, PIN CODE-700151

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 floor area shall be suitably compartmented by separation wall up to ceiling level having at least two hours Fire resisting capacity as per N.B.C Part-IV 2016 .
3. The interior finish decoration of the building shall be made low flame spread materials conforming I. S. specifications.
4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
5. Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting

Fire resisting capacity.

B. OPEN SPACE & APPROACH :

1. The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
2. The approach roads 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 – 5 Mtr. respecting the abutting road.

C. 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 open able 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 conforming the relevant building rules with up-to-date amendments.
4. All the staircase shall be extended up to terrace of the building and shall be negotiable to each floor and each other without entering into any room.
5. Fire and smoke doors at the entrances of the Staircase enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour Fire resisting wire glass window fitted with self-closing type open able in the direction of escape.
6. All exits, staircase, staircase landing shall be kept free from any obstruction for smooth evacuation of the people on any emergency.

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.
3. The speed of fire lift shall be such that it can reach the top floor from ground level within one minute.
4. Lift Communication system shall be provided in the lift and this system shall be connected to fire control of the buildings.
5. Alternate source of power supply shall be provided for all lift through manually operated change over switch.

E. FIRE FIGHTING WATER :

1. Underground water reservoir having water capacity of 50,000 ltrs. and overhead reservoir of 25,000 ltrs. capacity exclusively for Fire fighting purpose with replenishing arrangements @ 1000 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.

F. HYDRANT SYSTEM riser :

1. The buildings shall be provided with down comer at 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 lts/min. At the ground floor level outlet and minimum 900 lts./min.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.

2. Provision for Hose Reel in conjunction with down comer shall be made at each floor level. Conforming the relevant I.S. Specifications.

3. Provision of standard Hose Reel Hose supplied from the overhead reservoir through Booster pump shall have to be made in all the floor of the building satisfy the code of I.S. 3844- 1989.

G. SPRINKLER INSTALLATION :

1. The automatic Sprinkler installation shall be provided in Shop Areas as mentioned in Block-1 at Ground Floor of the building as per I.S. 9972. Alarm gang to be incorporated along with the sprinkler system.

H. FIRE PUMP :-

1. Provision of the Terrace Booster Pump (LPM-900) 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. One such pump shall always be kept on stand-by preferably be of diesel driven type.

2. Provision of Jockey pump (LPM-180) shall also have to be made to keep the Water based system under pressurized condition at all the pumps shall be incorporated with both manual and auto system under facilities.

3. Level switch to be provided so that the Pump of U.G.W.R will automatically start after lowering down the water level of O.H.W.R. after a specific 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. The vertical & Horizontal ducts shall be supply sealed at alternative floor level.

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

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, Fire Lift etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

J. 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 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. Auto fire detection system with the help of flent and smoke detector shall be installed in all places of below and preferably above false ceiling of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988.
3. The suppression system shall be made with Fire Extinguishers and total flooding system with CO2/FM-200 particularly in computer and Electrical processing and data room and in a room of irreplaceable articles.
4. 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.

K. ANALOGUE SYSTEM :

1. Auto Fire Alarm System with analogue addressable smoke / heat detector as per suitability shall be installed in Shop area.

L. AIR CONDITIONING SYSTEM (IF ANY) :

1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floor.
2. Arrangement shall be made for isolation at the strategies location by incorporating auto damper in the Air Conditioning system.
3. The system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.
4. The air handling units room shall not be used for storage of any combustible materials.

M. FIRST AID FIRE FIGHTING SYSTEM :

First Aid Fire Fighting arrangements 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.

N. GENERAL RECOMMENDATIONS :

1. Fire Licence shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.
2. Fire Notice for fire fighting and evacuation from the building shall be prepared and be displayed at an vulnerable places of the building.
3. Floor numbers and directional sign of escape routes shall be displayed prominently.
4. The employees and security staff shall be conversant with installed Fire Fighting equipments of the building and to 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. A crew of trained Fireman shall be maintained round the clock for safety of the building.

7. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of Building.
8. Each year a certificate is 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, Final N.O.C. in favour of the occupancy shall be issued on being satisfied with the tests and performance 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.

Signature valid

Digitally Signed:
Name: ABHIJIT CHANDRAN
Date: 19-Mar-2022 12:18:18
Reason: Approved
Location: West Bengal

DIRECTOR
West Bengal Fire & Emergency Services

Memo No.: FSR/0125186241200070