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

Memo no.:FSR/0125186241300110

Date: 19-04-2024

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

To: PRAMOD KUMAR AGARWAL
LR DAG NO.-3133,3135 AND 3146, UNDER LR KHATIAN NO.-992, JL NO.- 16, MOUZA - BARRACKPUR, HOLDING NO.-268/2/C, G.T.ROAD, P.S.- BELUR, WARD NO.-25, UNDER BALLY MUNICIPALITY, HOWRAH - 711204

Sub: Fire Safety Recommendation for proposed B+G+VII Storied under group Residential Building at LR Dag No.-3133,3135 and 3146, Under LR Khatian No.-992, JL No.- 16, Mouza - Barrackpur, Holding No.-268/2/C, G. T. Road, P.S.- Belur, Ward No.-25, Under Bally Municipality, Howrah - 711204

This is in reference to your application no. 0125186241300110 dated 22-02-2024 regarding the Fire Safety Recommendation for proposed B+G+VII Storied under group Residential Building at LR Dag No.-3133,3135 and 3146, Under LR Khatian No.-992, JL No.- 16, Mouza - Barrackpur, Holding No.-268/2/C, G. T. Road, P.S.- Belur, Ward No.-25, Under Bally Municipality, Howrah - 711204

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 (Bidhannagar / Calcutta Municipal Corporation).

2. The interior finish decoration of the building shall be made low flame spread materials conforming 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 ducts by the materials of adequate 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 4.5M and 5 M respecting abutting the 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 openable 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 and well as rules of the cinematograph Act. With up-to-date amendments.

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

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 one 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 lifts shall be designed for Fire Lift. The word "FIRE LIFT' shall conspicuously be written at ground floor.

3.The lift installed to enable Fire Services personnel to reach different floor with minimum delay, having such feature as required in accordance with this part.

E.Basement

1.The basement shall be adequately ventilated.

2.Additional staircase from the open air as shown in the drawing shall be constructed beside the ramps conforming relevant I.S. Specification.

3.The basement shall be protected with auto sprinklers system/ hose reel system etc.

4.Smoke Venting system from basement levels shall have to be provided.

F.Fire Fighting Water:

The underground reservoir of 30,000 ltrs. Capacity and overhead water reservoir of 13,500 ltrs. Capacity exclusively for Fire Fighting purpose with replenishing arrangements @ 1000 lts./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.

G.Hydrant System:

a)The building shall be provided with Wet Riser at 150mm. 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 2280 lts/min. at the ground floor level outlet and minimum 900lts/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.

b)Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level. Conforming the relevant I. S. Specifications.

c)Yard Hydrant / Ring Main Hydrant with provision of four numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specifications.

H.Sprinkler Protection IS-15105: -

The automatic sprinkler system shall be provided as per IS 9972. The sprinkler system shall be connected with the existing

system of the building if required pressure is present at the furthest point.

I.Fire Pump :

a)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. One such pump shall always be kept on stand-by preferably be of diesel driven type.

b)Provision of Jockey Pump shall also have to be made to keep the Water based system under pressurized condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall preferably of positive type or in case of negative suction, the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank.

J.Detection System:

1.Auto Fire Alarm System with analogue addressable smoke / Heat detector as per suitability shall be installed in each floor.

2.Addressable analogue manual cell boxes incorporating with sounders shall be installed in all floors area of the building in such a manner that maximum travel distance shall not be more than 22.5 ltr. in order to reach any of the cell point.

3.Micro Processor based fire alarm panel shall be installed and all shall also be connected with main panel at the Fire Control Room of the premises having direct dialing facility to the local fire service unit.

4.Both way public address systems shall be made available in all floors of the building. The system shall be connected to the Main Control Room.

5.All the installations shall also be satisfy the I.S. specifications 2189 (as amended) and the code of practice as laid down in the M.B.C. Part-IV.

K.Public Address System:

Public address system linked between all floors and Control Room shall have to be established.

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.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 ducts shall be supply sealed at alternative floor level.

3.The electrical installation shall be adequately protected with CO2/D.C.P. or Medium Velocity / Projector System.

N.Alternative Power Supply

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 incase of normal power failure.

O.Air Conditioning System (If any)

1.The A.H.U. shall be separated for each floor with the system Air Ducts for individual floors.

2.Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning system.

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