



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

Memo no.:FSR/0125186221100460

Date: 03-08-2022

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

To: HIMANGA MERCANTILES PVT. LTD.
MOUZA - ATGHARA, J.L.NO.-10, DAG NO.-R.S. 633, RECORDED UNDER KHATIAN NO.-2524, UNDER NEW TOWN
KOLKATA DEVELOPMENT AREA, P.S.- NEWTOWN

Sub: Fire Safety Recommendation in respect of proposed construction of one number G+XIII storied under group Residential Building at Mouza- Atghara, J.L. No.- 10, R.S. Dag No. 633, KH No.- 2524, P.S.- Newtown under N.K.D.A., Bidhannagar, North 24 Parganas, Pin – 700156.

This is in reference to your application no. 0125186221100460 dated 13-07-2022 regarding the Fire Safety Recommendation in respect of proposed construction of one number G+XIII storied under group Residential Building at Mouza- Atghara, J.L. No.- 10, R.S. Dag No. 633, KH No.- 2524, P.S.- Newtown under N.K.D.A., Bidhannagar, North 24 Parganas, Pin – 700156.

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 Entire construction of Each Building shall be as per approved plan drawings conforming the relevant building rules of local Body & N.B.C. of India (Part-4) 2016.
- 2.The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. 1642 :2013 specifications.
- 3.Provision of ventilation at the crown of the central core-duct (if constructed) of the each 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 shall be of minimum 2 hours Fire Resistance Rating.

OPEN SPACE & APPROACH:

- 1.The open spaces surrounding the building shall be as per the approved plan/drawing.
- 2.The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 Ton.
- 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 as per approved building plan/drawing. 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.
- 2.The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall be as per approved building plan/drawing

FIRE FIGHTING WATER :

- 1.The Building shall be provided with Under Ground Water Reservoir of 75000 Litres Capacity (As shown in the submitted Plan) exclusively for Fire Fighting Purposes. In addition, there shall be arrangement of Over Head Fire Fighting Water Reservoir having water capacity of 5000 Litres Exclusively for Fire Fighting purpose and to be kept full at all time.
- 2.The Fire water reservoirs shall have overflow arrangement with the domestic water reservoir so as to avoid stagnancy of water.
- 3.Provision of necessary manhole shall be made on the top of this reservoir as per specification of N.B.C. (Part-4) of India 2016.
- 4.Provision of replenishment for the U.G.W.R. and O.H.W.R. at the rate of at least 2000 Litres and 1000 Litres per minute from two separate sources of water supplies shall be made.
- 5.The deep tube well or any other Pump provided for the replenishment of the U.G.W.R. or O.H.W.R. shall have Auto Starting Facilities connected with Fire Switches or Level Sensors.

WATER LAYOUT SYSTEM:

- 1.The building shall be provided with Wet Riser System through 100 mm internal Diameter pipe lines at the rate of One for each 1000 Sq. Mtrs. of floor area in accordance with the relevant portion of the N.B.C. (Part IV) of India 2016.. The system shall be so designed that the same is charged with Water all the time under pressure and capable to discharge 2850 L.P.M. of water at minimum 3.5 Kgs./CM2 pressure at the furthest and at the top most outlet as well. In no case the running pressure shall be less than 3.5 Kgs./CM2. All other requirements shall conforming I.S. 3844 – 1989.
- 2.The building shall be provided with Hose Reel units on swiveling drum in conjunction with Down Comer shall be provided on each floor according to the I.S. 3844 – 1989.
- 3.Adequate Nos. of Fire Service Inlet shall be provided for the building at the strategic locations of the buildings.

FIRE PUMPS:

- 1.One numbers of Electric Driven and One number of Diesel Driven (As Standby) Fire Pumps each having water discharge capacity of 2850 L.P.M. and One numbers of Electric Driven Fire Pumps having discharge water capacity of 180 L.P.M. as Jockey Pump with adequate Head Capacity shall be provided to deliver Fire Fighting Water into the Master Based System comprises of Wet Riser, Automatic Sprinklers and Hose Reel Hoses systems..
- 2.The said Fire Pumps shall be incorporated with both manual and auto starting facilities. The suction of Fire Pumps shall preferably be of positive type.
- 3.Fire Pumps are to be provided in accordance with IS 15301:2003 with alternative power supply to drive them in case of normal power failure.

AUTOMATIC SPRINKLERS SYSTEM:

- 1.Community Hall on the Ground Floor, Gym and Game Room on the First Floor areas shall be fully protected with Automatic Sprinklers Systems in accordance with I.S. 15105:2002.
- 2.The Fire Pump integrated with the Automatic Sprinklers shall be provided with additional water feeder from the Over Head Fire Water Reservoir apart from Under Ground Water Reservoir.

HYDRANT (EXTERNAL) SYSTEM:

- 1.The building shall be provided with External Hydrant System through 150 diameter Pipe Lines with adequate numbers of Standard Outlet/Valves and Monitor Branches Covering the Multi Level Car Parking in the North and East Side of the building.
- 2.External Hydrant System shall be in accordance with I.S. 13039:1991.

SMALL GEARS IS:903-1993:

Hose boxes, 15 meter length Non-Percolating delivery hoses, gunmetal short branches of half inch diameter, each set of hydrant etc. Shall be strictly in accordance with the I.S. 903:1993.

ELECTRICAL INSTALLATION & DISTRIBUTION:

- 1.The electrical installation including 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.
- 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. Fire Extinguishing Medium.
- 4.All electrical installation viz. Transformer Switch Gear L. T., H. T. rooms shall be protected with both auto detection and suppression systems as per suitability.
- 5.Alternative Power Supply : Arrangements shall have to be made to supply power with the help of adequate capacity's diesel generator to operate at least the Fire Pumps, 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.

M.O.E.A.& PUBLIC ADDRESS SYSTEM :

- 1.The Building shall be provided with Floor Wise Manually Operated Electrical Fire Alarm system with adequate numbers of break glass type call box fitted with Hooters along with public address system, on each floor.
2. The same shall be well connecting with audio-visual panel board and shall be connected with the integrated Panel in the Control Room.
3. The Control Room shall be located at the entrance of Ground Floor of each building, other requirements of the system shall be made conforming I.S. 2189 – 1988.
4. Devices of Good and reliable Public Address System linked between all floors shall have to be established in each building.

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. 2190-1992.

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.

After fully compliance of all the above Fire 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 may be issued on being satisfied with the tests and performances of safety provisions and installations of the buildings.

N.B. :Any Civil / Structural deviation and changes or changes to the nature of use of the building or part thereof 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