



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

Memo no.:FSR/0225186238700963

Date: 10-11-2023

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

To: IRFAN JAVED AND REHAN JAVED
066,113C,MATHESWARTOLA ROAD

Sub: Fire Safety recommendation for G+23 storied Residential building 113/C Matheswartola RoadKolkata-700046

Application Reference : KMC (CAF-2023070165) received on 06-09-2023 regarding the Fire Safety recommendation for G+23 storied Residential building 113/C Matheswartola RoadKolkata-700046

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.Entire construction of the building shall be as per approved plan drawing confirming relevant building Rules.
- 2.The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
- 3.Provision of natural ventilation shall be provided.
- 4.Arrangements shall have to be made for sealing all the vertical and horizontal ducts and shafts by the materials of adequate Fire resisting capacity.
- 5.FCD shall be provided as mentioned in plan.

B.OPEN SPACE & APPROACH:

1. The open space surrounding the building shall conform to the relevant building rules.
- 2Driveway shall be free from any obstruction for free movement of fire Vehicle.
- 3.Side open space shall not be encroached by any utility, which obstruct the free movement around the building.

C.STAIRCASE:

- 1.The staircases 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.All the staircases shall be extended up to terrace of the respective part building and shall be negotiable to each floor without entering any occupied area.

D.LIFT

- 1.The walls of the lift enclosure shall be at least two hours Fire Resisting type.
- 2.Collapsible gate shall not be permitted.
3. The lift shall have Fireman lift switch.
- 4.Fire Fighting Shaft shall be provided as mentioned in plan drawing

E.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 specifications 1946 - 1982.
2. The vertical & horizontal electrical ducts shall be sealed at each floor level by fire resisting material.
- 3.The electrical installation shall be adequately protected with CO2 / D.C.P Fire extinguishers.
4. No electrical main, panel, meter shall be provided at entrance or exits.
- 5.Alternative Power Supply:
Arrangements shall have to made to supply power with the help of a generator to operate the Fire Pump, Pump for UGWR, 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. The DG shall be auto start and protected with adequate DCP and CO2 Extinguishers.

F.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 Air Conditioning ducting system.
- 3.The system of auto shut down of A.H.U shall be incorporated with the Fire detection and alarm systems.
- 4.The air handling unit's room shall not be used for storage of any combustible materials.
5. For local installation of Air Condition System Split type shall be preferable.

G.DETECTION AND ALARM SYSTEM:

- 1.The entire building shall be provided with Automatic Fire detection system with Automatic Fire Detection panel with Hooters, P.A. system with Talk Back Facility shall be provided at each floor. Fire Control Room shall be located at the entrance of the building; other requirements of the system shall be made conforming to I.S 2189-1988.
- 2.BMS facility shall be provided to monitor all the services.

H. FIRE FIGHTING WATER:

Under Ground Fire Water Reservoir of 200 KL (100KL shown in plan) Overhead Water Reservoir of 25,000 Ltr. capacity exclusively for Fire Fighting purpose with replenishing arrangements @2000 ltr./min. shall be provided. The Fire water reservoirs shall have overflow arrangement with the domestic water reservoir to prevent stagnancy of water. The water reservoirs shall be kept full at all time.

I.HYDRANT SYSTEM:

The building shall be provided with 150 mm internal diameter Wet riser cum Down comer; separate for Commercial and Residential part and separate for different height zone with 63 mm inter diameter landing valve, Hose Reel Hose, Hose Box at the Staircase Landings / Half Landings and Fire Service inlet at the Ground floor facing to the approach road. One riser shall be provided for each 1000 sq. Mtr. / for each part of the building. The system shall be so designed that shall be kept charged with water all the time under pressure, running pressure shall not be less than 3.5 kg/cm² at the top of the

installation. All other requirements shall conform to I.S. specifications 3844-1989.

2. Entire premises shall be protected with 200mm internal diameter Ring main hydrant system with adequate numbers Hydrant valves, hose box, Fire service inlet, etc.

L. SPRINKLER SYSTEM

Automatic sprinkler system shall be provided with 150mm diameter Separate riser for sprinkler system for all over the building.

Separate riser shall be provided for commercial and Residential part.

M.FIRE PUMP

Two number jockey pumps 180 LPM at 120 mtr head for Hydrant and sprinkler system, One main fire pump of 2850 LPM at 120 mtr head, One Sprinkler pump of 2850 LPM at 120M head and a Stand by Fire pump of same capacity shall be provided. All the pumps shall be kept in auto mode. An arrangement of alternative power back-up to the Pump house shall be provided.

One terrace level Fire pump of 900 LPM at 35 M head shall be provided to maintain the pressure.

N.FIRST AID 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. 2190-2010.

O.Pressurization system:

Pressurization shall be provided at Stairs of commercial part and for Residential part as mention in plan drawing

O.GENERAL RECOMMENDATIONS:

1. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at well visible places of the building in adequate numbers.
2. Floor numbers, evacuation plan and directional signage (retro-reflective) of escape route shall be displayed prominently.
3. The occupants and the security staff shall be conversant with installed Fire Fighting equipment's of the building and to operate in the event of Fire and Testing.
4. 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. A record of the maintenance schedule to be maintained.
5. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building and A record to be maintain.
6. All electrical wirings, Fittings, A.C. shall be checked and minted n regular basis to reduce the fire risk.
7. Good house-keeping to be maintained to eliminate Fire Risk.
8. All the escape routes shall be kept obstruction free for easy evacuation of the occupants.
9. On compliance of all above Fire safety recommendations, application for Fire Safety Certificate shall be submitted, for necessary inspection and testing of the fire safety arrangement. Fire Safety Certificate shall be issued after satisfactory performances of the installations of the building.

N.B.:Any deviation and changes in plan drawing or the nature of use of the building in respect to approved plan drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

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