



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

Memo no.:FSR/0225186228700652

Date: 21-09-2022

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

**To: SANJIB DUTTA**  
063,4A,SAROJINI NAIDU SARANI

**Sub: Fire Safety Recommendation for Proposed construction of B+G+VI storied under group of Residential Building U/S 393(A) at premises No-4A, Sarojini Naidu Sarani, Kolkata-700017, Ward No-636,Borough-VII, P.S-Shakespeare Sarani, P.O- Park Street.**

Application Reference : KMC (CAF-2022070093) received on 13-07-2022 regarding the Fire Safety Recommendation for Proposed construction of B+G+VI storied under group of Residential Building U/S 393(A) at premises No-4A, Sarojini Naidu Sarani, Kolkata-700017, Ward No-636,Borough-VII, P.S-Shakespeare Sarani, P.O- Park Street.

**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 existing building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.
2. The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
3. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity of service ducts/shafts of 2hr. Fire rating.

**B. OPEN SPACE & APPROACH:**

1. The open space surrounding the building shall be kept clear open to sky and shall conform the relevant building rules as well as permit the easy accessibility and manoeuvrability of Fire appliances with turning facility.
2. The approach roads & internal drive ways 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 to 5.0mtrs. respecting abutting the road.

**C. STAIRCASE:**

1. The staircases 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 amendment.

**D. BASEMENT:**

1. The basement shall be adequately ventilated.
2. The basement shall be protected with auto Sprinklers system, auto detection system, hydrant & hose reel system etc.
3. Automatic Mechanical extractors for smoke venting purpose shall have to be provided at basement. The system shall be such designed, that, it will be operate automatically at the time of actuation of auto detection system. It shall also have an arrangement to start it manually.
4. Mechanical extractor shall have an alternative source of supply.
5. Lift lobby shall have to be pressurized at basement.

**E. LIFT:**

1. The walls of the lift enclosure shall be at least two hours Fire resisting type
2. Collapsible gate shall not be permitted.

**F. FIRE FIGHTING WATER:**

1. Overhead Water Reservoir exclusively for Fire Fighting having capacity 10,000lts and Under Ground Water Reservoir having capacity 40,000ltr shall have to be provided & to be kept full at all time.
2. The Fire Fighting water reservoir shall be having overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water.
3. Provision of replenishment at the rate of at least 1000ltrs/min. preferably from two separate source of water supplies shall be made.

**G. DOWN COMER SYSTEM WITH PUMP:**

1. The building shall be provided with down comer connected to terrace tank through the terrace pump of 900 LPM capacity and one same capacitated stand-by pump shall have to be provided. 100mm. internal diameter Pipe Line for provision of landing valves at each stair case half landings along with hose reel hose. The system shall be such designed to keep charged with water all the time under pressure and shall not be less than 3.5kgs/sq.cm. All other equipment's shall conforming I.S 3844-1989.
2. Provision for one number Yard Hydrant with one number Fire Service Inlet shall have to be installed in the building in accordance with relevant I. S. Specifications.

3. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.

#### H. ELECTRICAL INSTALLATION & DISTRIBUTION:

1. The electrical installation including transformers, Main & Meters etc. distribution system at 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 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 extinguishers.

#### I. DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with two numbers call boxes fitted with Hooters along with public address system, at each floor connecting with panel board. The panel board shall be located at the entrance of Ground Floor of the building,
2. Hooter will be sounded in such a manner so that an operation of Manual Call Point Hooters will sound on the same floor and immediate alternate floor.

#### J. 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.

#### K. GENERAL RECOMMENDATIONS:

1. Electrical room shall be protected with suitable type of fire fighting system as per IS- Specification.
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 the good working conditions at all times.
6. 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 Life Safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation before occupancy of the buildings; 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 buildings.

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

Director  
West Bengal Fire & Emergency Services

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