



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

Memo no.:FSR/0225186228700833

Date: 01-12-2022

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

**To: HARI PRASAD SHARMA CA OF MADAN LAL SHAW AND 4 OTHERS**  
**071,25A,HARISH MUKHERJEE ROAD**

**Sub: Fire Safety Recommendation for a proposed G+VI storied under group Residential Building at the premises no. 25 A, Harish Mukherjee Road, Ward No. 71, Borough No. IX, P.S. Bhawanipore, Kolkata- 700025.**

Application Reference : KMC (CAF-2022090083) received on 01-09-2022 regarding the Fire Safety Recommendation for a proposed G+VI storied under group Residential Building at the premises no. 25 A, Harish Mukherjee Road, Ward No. 71, Borough No. IX, P.S. Bhawanipore, Kolkata- 700025.

**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 remained 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 with 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 of 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.
- 2.The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighing up to 45 M.T.
- 3.The width and height of the access gates into the premises shall not be less than 4.5 m & 5 M respectively in respect of abutting road.
- 4.Internal passage way shall be maintained according to the approved plan drawing. All the Passage way shall be kept clear round the clock.

C. Staircase :

1. 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 conform the relevant building rules with up-to-date amendments.
4. The staircase shall be extended upto terrace of the 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. Lift shall be designed for Fire Lift of minimum 8 passengers capacity. The word "FIRE LIFT" shall conspicuously written and Fire Man Switch shall be installed at ground floor.

E. Fire Fighting Water :

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 reservoirs shall be kept full at all time.

Hydrant system:

1. The building shall be provided with Down Comer of 100 mm internal diameter pipe line with provision of landing valves at the Staircase landing/ half landing. 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. The running pressure shall not be less than 3.5 kgs / cm<sup>2</sup> in any case.
2. Provision of standard Hose Reel Hose supplied from the overheard reservoir through Booster Pump shall have to be made, satisfy the code of I.S. 3844-1989.
3. One such terrace pump of equal capacity shall be installed as stand by fire pump.
4. Fire Service Inlet shall be installed near the entrance of the building.

F. DOUBLE LAYER MECHANICAL CAR PARKING SYSTEM:

1. Mechanical car parking area shall be segregated partition wall between entrance lobby and Mechanical car parking.
2. Structural design:- The Mechanical car parking shall be constructed of structural steel construction.
3. Vertical Deck Separation:- For Mechanical car parking, vertical Fire separation between the upper and lower decks by using a non- perforated and non-combustible materials (Structural Steel Plate) shall be provided. Proper drainage system shall have to be provided for accidental leaking of oil from the Car and sand bed shall be provided at the Ground level.
4. Fire Engine Access way:- Access way shall be provided for the Fire Engine to gain access to the car park entrance and exit.
5. Fire Hydrant:- Fire hydrants are to be provided in accordance with the provision of NBC Part 4, 2016 and relevant I.S. specification.
6. Natural Ventilation:- As per provision of NBC Part 4, 2016 and relevant I.S. specification, shall be maintained.
7. Sprinkler & Detection System:- Open Modular Type Sprinkler along with detectors shall be provided in all Double layer

Mechanical car parking areas as per relevant I. S. Specification.

8. Cross zone wise Sprinkler system shall have to be implemented.

9. Operating System:- Both Mechanical and Manual type operating system for Double layer Mechanical car parking shall have to be provided.

**G. Electrical Installation & Distribution :**

1. The electrical installation including Electrical panel, 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 relevant I.S. specification.

2. The vertical ducts shall be sealed at each floor level by approved fire resistant materials.

3. The electrical installation including DG set shall be protected with automatic fire detection and suppression system as per relevant I.S. specification.

**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, Lift, 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.

**H. Detection and Alarm System :**

1. Manually operated Electrical Fire Alarm system with at least one number of break glass type call box fitted with Hooter 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. Hooter will be sounded in such a manner so that an operation of Manual Call Point, Hooters will be sounded on the same floor and immediate alternate floor.

**I. Centralized 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.

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.

**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. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles (If any).

2. Necessary sanction and approval for such construction and occupancy must be obtained from respective competent authorities.

3. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

4. Floor numbers and directional sign of escape route shall be displayed prominently.

5. The occupants and security staff shall be conversant with installed Fire Fighting equipments of the building and to operate in the event of Fire and Testing.

6. 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.

7.A crew of trained Fireman shall be maintained round the clock for safety of the building.

8.Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.

9.The Department of Fire & Emergency Services, Government of West Bengal, shall not take any responsibility in respect of any legal dispute if pending or arises about the title of land / property.

10.This Fire Safety Recommendation cannot be treated in any case of regularizations of any unauthorized construction.

11.Accordingly, a certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Fire Safety arrangements and installation of the building.

On 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 installation, 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 building.

N.B. :Any deviation and changes in construction and 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 shall be treated as cancelled.

Director  
West Bengal Fire & Emergency Services

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