



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

Memo no.:FSR/0125186231500166

Date: 28-07-2023

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

**To: Mr. ANJAN DAS**  
**PLOT NO. 626(P) 630 MOUZA - TALKUI, J.L. NO.-190, P.S.-MIDNAPORE DIST. PASCHIM MEDINIPUR, WEST BENGAL**

**Sub: Fire Safety Recommendation for proposed construction of G+VI storied Residential Apartment with partly Mercantile (ground to second floor) under group of Residential Building situated at Plot No.- 626(P & 630), Mouza-Talkui, J.L.No.- 190, PS- Midnapur, District- Paschim Medinipur, West Bengal.**

This is in reference to your application no. 0125186231500166 dated 12-06-2023 regarding the Fire Safety Recommendation for proposed construction of G+VI storied Residential Apartment with partly Mercantile (ground to second floor) under group of Residential Building situated at Plot No.- 626(P & 630), Mouza- Talkui, J.L.No.- 190, PS- Midnapur, District- Paschim Medinipur, West Bengal.

**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 whole construction of the existing building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipality/Panchayat Body.
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. Arrangement shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate fire resisting capacity.
5. Opening in walls or floors which are necessary to be provided to allow passage in all building services like cables, electric wirings, telephone cables, plumbing pipes etc. shall be protected by enclosures in the form of ducts/shafts having a fire resistance not less than 120 min. The inspection door for electrical shafts/ducts shall be not less than 120 min.

**OPEN SPACE AND APPROACH:**

- 1.The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire Appliances with turning facility.
- 2.The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting 45M.T.
- 3.The width and height of the access gate into the premises shall not be less than 5.0 mts. and 5.0 mts. respecting the abutting road.
- 4.Drive way should be free from any type of obstruction. No parking will be allowed on the drive way.
- 5.All the Passage way should be kept clear for free access.
- 6.Occupancy load factor of residential group as per provisions of N.B.S. is 12.50 SQM. Per Persons

#### 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 open able sashes at each floor level in the external walls of the building.
- 3.The width of the staircase shall be made as marked in the plan. Corridors and the exit doors shall conform the relevant Building Rules with up to date amendment.
- 4.All the staircase shall be extended up to terrace of the building and shall be negotiated to each floor.

#### CAR PARKING

- 1.Floor surface shall be non-combustible, sloping towards drain to accumulation of water.
- 2.Electric panel, DG space, Oil stores etc. in parking structures located within, immediately above or below, attached to, or less than 3M away from a building used for any other purpose shall be separated by fire resistance walls and floors having fire resistance rating not less than 120min.
- 3.Aisles in car parking shall be maintained as per provision of car parking spaces and basic understanding of N.B.C. of India.

#### LIFT:

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

#### EXIT:

- 1.The conference hall shall have exits sufficient to provide for the total capacity thereof as determined in accordance with.
- 2.No display of exhibit shall be installed or operated as to interfere in any way with access to any required exits or with any required exit sign.
- 3.All displays of exhibits of combustible material or construction and all booths and temporary construction in connection with there shall be so limited in combustibility or protected as to avoid any undue hazard of fire which might endanger occupants before they have opportunity to use the available exits as determined by the authority.
- 4.All exits shall be either lead to final exits or must be a points of entry to protected route.
- 5.At least half of the exits from conference room should be remove from any stage or platform.

#### FIRE FIGHTING WATER:

Over Head Water Reservoir 25000 Ltrs. capacity exclusively for fire-fighting purpose with replenishing arrangements @ 500 ltrs/min. preferably from one source of water supply shall be provided. The water reservoirs 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.

#### **HYDRANT SYSTEM:**

- 1.The building shall be provided with Down Comer of 100 mm. internal diameter pipe line with provision of Hose Reel Hose at the staircase landings/half landings.
- 2.Provision for Hose Reel in conjunction with Down Comer shall be made at each floor level and conforming the relevant I.S. Specifications.
- 3.Fire Service Inlet shall be installed surrounding the building in accordance with relevant I.S. specifications.

#### **FIRE PUMP:**

- 1.Provision of Fire Pump shall have to be made to supply water at the rate-designed pressure and capable to discharge 900 LPM into to the Water based system, which shall be installed in the roof of the building.
- 2.Provision of the Jockey Pump discharge 180 LPM 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.

#### **SPRINKLER INSTALLATION:**

The automatic sprinkler installation shall be provided in all shops and corridor of commercial floors from ground floor to second floor of the building as per I.S. 9972. Alarm Gong to be incorporated along with the sprinkler system.

#### **DETECTION, ALARM AND SUPPRESSION SYSTEM**

- 1.Manually operated Electrical Fire Alarm System with at least two numbers of break glass type call boxes fitted with Hooters in each floor of residential and shops and corridor of commercial area along with public address system connected with panel zone.
- 2.Auto smoke detector system shall have to be installed inside the shops & corridor of commercial floors from ground floor to second floor of the building as per I.S.

#### **FIRST AID FIRE FIGHTING SYSTEM**

First aid firefighting arrangement in the style of placing suitable type of portable fire extinguishers, fire Buckets etc. in both floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190-1992.

#### **ELECTRICAL INSTALLATION AND DISTRIBUTION:**

- 1.The electrical installation including Transformers, Switch Gear, 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.
- 2.The electrical installation shall be adequately protected with CO2/D.C.P. Fire Extinguishers conforming I.S. specification.
- 3.Arrangement for alternative power supply shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Deep Tube-Well Pump, Fire Alarm System etc. and also for illuminating the Staircase, Corridors, Lobbies etc. and other places of assembly of the building in case of normal power failure.

#### **GENERAL RECOMMENDATIONS:**

- 1.Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.
- 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 employees and security staffs 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 them in perfectly good working conditions at all times.

6. Mock Fire practice and Evacuation Drill shall be performed periodically with participation of all occupants of the building.

On compliance of all the above Life and Fire Safety Recommendation, the Director General, West Bengal Fire & Emergency Services shall be approved for necessary inspection and testing of all 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 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 will be treated as cancelled.

Signature Not Verified

Digitally Signed.  
Name: Bim Kumar Chowdhury  
Date: 28-Jul-2023 17:44:49  
Reason: Approved  
Location: West Bengal

Director  
West Bengal Fire & Emergency Services

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