

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIRECTOR GENERAL  
WEST BENGAL FIRE & EMERGENCY SERVICES  
13-D Mirza Ghalib Street, Kolkata- 700 016**

Memo No : IND/WB/FES/20182019/28673

DATE: 15/10/2018

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

**To :**  
**Basant Kumar Parakh**  
**50, Jnan Goswami Sarani, Kolkata - 700053.**  
**Tollygunge F.S., New Alipore,**  
**Kolkata - 700053 .**

**Sub :Fire Safety Recommendation for proposed construction of G+V storied under group Residential Building at premises no. 50, Jnan Goswami Sarani, Kolkata - 700053.**

This is in reference to your Application No. IND/WB/FES/20182019/28673,dated 15/10/2018, regarding the Fire Safety Measure for proposed construction of G+V storied under group Residential Building at premises no. 50, Jnan Goswami Sarani, Kolkata - 700053..

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 favour of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

**1. 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. specification 1946 – 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 CO<sub>2</sub>/D.C.P.

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 a generator to operate at least the Fire Pump, 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.

## 2. DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with at least one number of break glass type call boxes fitted with Hooters at each floor connecting with audio-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 a Detector or Manual Call Point Hooters will be sounded on the same floor and immediate alternate floor.

## 3. FIRTAID 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. 2190-92.

## 4. GENERAL RECOMMENDATIONS:

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

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

3. 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.

4. 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.

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

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.

5.

On compliance of all the above Fire and Life 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.

6. 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.

#### 7. CONSTRUCTION:

1. The whole construction of the proposed occupancy shall be as per approved plan drawings.

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 & the doors of service ducts / shafts of 2hr. Fire rating.

#### 8. OPEN SPACE & APPROACH:

1. The open spaces surrounding the building shall conform to the relevant building rules as well as permit the accessibility and maneuverability of Fire Appliances with turning facility.

2. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 20 M.T.

#### 9. STAIRCASE:

1. The staircase of the building shall be enclosed type.

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.All the staircases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

#### 10. FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 10000 ltrs and Over head Water Reservoir of 20000 Ltrs capacity exclusively for Fire Fighting purpose with replenishing arrangements @1000 ltrs/min. preferably from two different sources of water shall be provided. The water reservoirs shall have overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water. The water reservoirs shall be kept full at all time.

#### 11. HYDRANT SYSTEM:

1.The building shall be provided with Down comer connected to the terrace tank through the terrace pump of 900 LPM capacity and shall have to be provided 100mm. internal diameter Pipe Line with provision of landing valves at the Staircase landings / half landings at the rate of one such riser for 1000 Sq. m. of floor area. The system shall be so designed that shall be kept charged with Water all the time under pressure and one standby fire pump of same capacity shall also be installed. In both cases the running pressure shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.

2.Provision of atleast one number Hydrant point with one number Fire Service Inlet shall be installed in the building in accordance with relevant I.S. specification.

3.Hose Reel Hose shall have to be provided inconjunction with down comer at each half / full landing.

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

**Director**  
**West Bengal Fire & Emergency Services**