

**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/20182019/18473

DATE: 12/04/2019

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

**To :**  
Kamruzzaman Choudhury  
6- MUNSHI BAZAR ROAD  
Manicktala F.S., Entally,  
Kolkata - 700015 .

**Sub :Fire Safety Recommendation for Proposed B+G+VII Storied under group Residential Building situated at Premises No. 6, Munshi Bazar Road, Ward No. 57, Brough VII, Kolkata 700015**

This is in reference to your Application No. IND/WB/FES/20182019/18473, dated 12/04/2019, regarding the Fire Safety Measure for Proposed B+G+VII Storied under group Residential Building situated at Premises No. 6, Munshi Bazar Road, Ward No. 57, Brough VII, Kolkata 700015.

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. A.CONSTRUCTION:**

- 1.The whole construction of the proposed 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 low flame spread materials

conforming I.S. specifications.

3. Arrangements shall have to be made for sealing 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 Weighting up to 45 M.T.
3. The entrance and the exit gate shall have to be provided as per relevant building rules of the local municipal corporation and as show ad marked in the plan.

#### C. Basement:

1. The basement shall be adequately ventilated.
2. Additional Staircase from the open air as shown in the drawing shall be constructed beside the ramp conforming relevant IS specification.
3. The basement shall be protected with auto sprinkler system / Hose reel System etc.
4. Mechanical Extractors for smoke venting system from lower/upper basement levels shall also be provided. The system shall be of such design as to operate on actuation of heat/smoke sensitive detectors or sprinkling. It shall also an arrangement to start it manually.
5. Mechanical extractors shall have alternative source of supply.
6. Basement shall never be used other than car parking.

#### D. Multilayer Car Parking (MLCP):-

MLCP shall be protected with Medium Velocity Water Spray Projector System.

#### E. STAIRCASE :

1. The Staircase of the building shall have permanent vents at the top and openable sashes at the each floor level in the external wall of the building.
2. 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 amendments.
3. The staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.
4. Fire and smoke doors at the entrances of all the staircase enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least two hour fire resisting wire glass window flitted with self-closing type open able in the direction of escape.

#### F. 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 existing lifts will be treated as Fire Lift in case of emergency. The word "FIRE LIFT" shall conspicuously be written at ground floor.



#### G.FIRE FIGHTING WATER:

The Under Ground Reservoir of 50,000 Ltrs. and Over Head Reservoir 25000 Ltrs. capacity exclusively for Firefighting purpose with replenishing arrangements @ 1000 lts./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 reservoir shall be kept full at all time.

#### H.HYDRANT SYSTEM:

1.The building shall be provided with Wet Riser at 150mm 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 capable to discharge 2850 lts/min. at the ground floor level outlet and minimum 900lts/min. at the top most outlet. 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 for Hose Reel in conjunction with Wet Riser shall be made at each floor level conforming the relevant I. S. Specifications.

3.Yard Hydrant / Ring Main Hydrant with provision of four numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specifications.

#### 4.Automatic Sprinkler Installation:

The automatic sprinkler system shall be provided at all floors including corridors and basement as per IS 9972. Alarm gang to be incorporated along with the sprinkler system. The sprinkler system shall be connected with the existing system of the building if required pressure is present at the furthest point.

All the assembly area in the residential section as well as in the entire commercial area shall be protected by automatic Sprinkler installation conforming the grade as per I.S. Specification.

#### I.FIRE PUMP :

1.Provision of the Fire Pump shall have to be made to supply water at the rate-designed pressure and discharge into the water based system, which shall be installed in the building. One such pump shall always be kept on stand-by preferably be of diesel driven type.

2.Provision of Jockey Pump 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. The suction of pumps shall preferably of positive type or in

case of negative suction the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank. A separate pump for the sprinkler installation shall have to be provided with additional jockey pump.

#### J.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.The vertical and horizontal electrical sealed at each floor level by fire resisting material.
- 3.The electrical installation shall be adequately protected with CO2/D.C.P.
- 4.Alternate Power Supply:
- 5.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.

#### K.DETECTION AND ALARM SYSTEM :

Manually operated Electrical Fire Alarm system with at least three numbers of break glass type call boxes fitted with Hooters along with public address system, 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.

#### L.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.

#### M.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 employees 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 & Fire Safety arrangements and installation of the building.

7. 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.

8. 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.

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

Signature Not Verified  
Digitally signed by ABHIJIT  
PANDEY  
Date: 2019.04.12 15:27:35 IST