

**GOVERNMENT OF WEST BENGAL**  
**Office of the Director General**  
**West Bengal Fire & Emergency Services**  
**13-D, Mirza Galib Street, Kolkata – 700 016.**

Memo. No. : IND/WB/FES/20192020/84809/ 1562 / 2020

Date: 15.07.2020

**From : Director in Charge**  
**Fire Prevention Wing**  
**West Bengal Fire & Emergency Services.**



**To : The Director,**  
**Magnolia Infrastructure Development Ltd.,**  
**93, Dr. Suresh Chandra Banerjee Road,**  
**Kolkata – 700 010.**

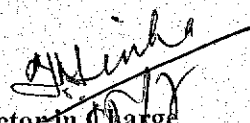
**Sub : Fire Safety Recommendation for Proposed Construction of G+IV Storied (Block - 1 to 9) & G+V Storied (Block – 10 to 20) Under Group Residential Building Complex at the Premises No- Mouza-Algaria, J.L. No.-05, Dag Nos.-574, 575, 576, 592, 593, 594, 595, 596, 597, 600, 604, 605, 606, 608, 609/628, L.R. Khatian Nos.-665, 666, 975, 1022, 1033 and Mouza-Moynagadi,, J.L. No.-06, Dag Nos.-713, 715, L.R. Khatian Nos.-2148 Under Pachim Khilkapur Panchayet, Barasat-I, District- North 24 Parganas.**

This is in Reference to your Letter No. Nil, Dated. 08.06.2020, Regarding Fire Safety Recommendation for Proposed Construction of G+IV Storied (Block - 1 to 9) & G+V Storied (Block – 10 to 20) Under Group Residential Building Complex at the Premises No- Mouza-Algaria, J.L. No.-05, Dag Nos.- 574, 575, 576, 592, 593, 594, 595, 596, 597, 600, 604, 605, 606, 608, 609/628, L.R. Khatian Nos.-665, 666, 975, 1022, 1033 and Mouza-Moynagadi,, J.L. No.-06, Dag Nos.-713, 715, L.R. Khatian Nos.-2148 Under Pachim Khilkapur Panchayet, Barasat-I, District- North 24 Parganas.

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 office is issuing **Fire Safety Recommendation** in favour of the aforesaid building subject to the compliance of the following fire safety measure. However, necessary sanction and approval for such construction and occupancy must be obtained from competent authorities.

**Enclose:**

1. One set of plan.
2. Recommendation.

  
**Director in Charge**  
**Fire Prevention Wing**  
**West Bengal Fire & Emergency Services**

## RECOMMENDATION

### **A. CONSTRUCTION:**

1. The whole construction of the proposed buildings 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 L.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 made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.

### **B. OPEN SPACE & APPROCH:**

1. The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
2. The approach roads 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 less than 4.5 - 5 M respecting abutting the road.

### **C. 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 openable sashes at the 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 and well as rules of the cinematograph Act. With up-to-date amendments.
4. All the staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

### **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. One of the lift shall be designed for Fire Lift. The Word "FIRE LIFT" shall conspicuously written at ground floor.



### **E. FIRE FIGHTING WATER:**

Underground water reservoir having water capacity of 2,00,000 Ltrs. and overhead reservoirs of 10,000 Lts. capacity all blocks 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.

### **F. HYDRANT SYSTEM:**

1. The buildings shall be provided with down comer along with hose reel hose connected to terrace tank through the terrace pump at 900 LPM capacity and provided all block one 100 mm internal diameter Pipe Lines 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 systems shall be so designed that shall be kept charged with Water all the time under pressure and shall not be less than 3.5 Kgs/Sq. cm. All other requirements shall conforming I.S. 3844-1989.
2. Provision of standard Hose Reel Hose supplied from the overhead reservoir through Booster Pump shall have to be made in all the floor of the building satisfy the code of I.S. 3844-1989.
3. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.

4. Ring Main Hydrant with provision of two numbers Hydrant shall be installed surrounding the buildings in accordance with relevant I.S specification.
5. The automatic Sprinkler installation shall be provided all assembly areas of the building as per I.S. 9972. Alarm gong to be incorporated along with the sprinkler system.

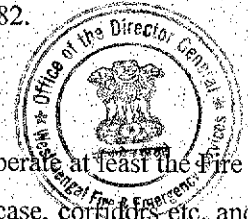
OR

6. The building shall be provided with Wet Riser of 100 mm 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 2280 lts/min at the ground floor level outlet and minimum 900 Lts/min at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kgs/Sq. cm. All other requirements shall conforming I.S. 3844-1989.
7. Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level. Conforming the relevant I.S. Specifications.
8. Ring Main Hydrant with provision of two numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S specification.
9. The automatic Sprinkler installation shall be provided all assembly areas of the building as per I.S. 9972. Alarm gong to be incorporated along with the sprinkler system.

**G. ELECTRICAL INSTALLATION & DISTRIBUTION:**

1. Electrical distribution system of the building shall be made in the form of concealed wiring or in heavy gauge M.S. conducted continuously bonded to earth cables shall be I.S. marked and preferably be of F.R.L.S. categories.
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. Alternate 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.



**H. AUTO DETECTION AND ALARM SYSTEM:**

1. Auto fire detection system with the help of flint and smoke detector shall be installed in all places of below and preferably above false ceiling of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with 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.

**I. 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.

**J. GENERAL RECOMMENDATIONS:**

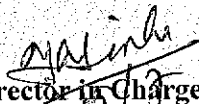
1. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
2. Floor numbers and directional sign of escape route shall be displayed prominently.
3. The occupancy and security staff shall be conversant with installed Fire 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 the building.

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

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.

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 in Charge  
Fire Prevention Wing  
West Bengal Fire & Emergency Services