

**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/20182019/42981

DATE: 26/06/2019

From :

The Director

Fire Prevention Wing,

West Bengal Fire & Emergency Services.

To :

MOHANA COMMERCIAL PRIVATE LIMITED

Mouza – Brajanath chak, JL No. 196, Plot nos. 422/628, 273/703, 273/695, 273, 273/422, 274/509, 273/701, P.O. Haldia Port, P.S. Haldia, Dist – Purba Medinipur.

Haldia F.S., Haldia,

Purba Medinipur - 721607 .

Sub :Fire Safety Recommendation for Proposed construction of B+G+VIII storied under group Residential Building in the name of "Mohana Commercial Private Limited" at premises no. Mouza – Brajanath chak, JL No. 196, Plot nos. 422/628, 273/703, 273/695, 273, 273/422, 274/509, 273/701, P.O. Haldia Port, P.S. Haldia, Dist – Purba Medinipur.

This is in reference to your Application No. IND/WB/FES/20182019/42981, dated 26/06/2019, regarding the Fire Safety Measure for Proposed construction of B+G+VIII storied under group Residential Building in the name of "Mohana Commercial Private Limited" at premises no. Mouza – Brajanath chak, JL No. 196, Plot nos. 422/628, 273/703, 273/695, 273, 273/422, 274/509, 273/701, P.O. Haldia Port, P.S. Haldia, Dist – Purba Medinipur..

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. 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 of low flame spread materials conforming to 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 all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity & the doors of service ducts / shafts of 2hr. Fire rating.

2. OPEN SPACE & 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 road 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 be less than 4.5 and 5 M respecting abutting the road.

3. STAIRCASE:

- 1.The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / RCC 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 wall of the building.
- 3.The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall conforming the relevant building rules.
- 4.Fire & Smoke doors at the entrance of staircase enclosures as shown / marked in the plan at each floor level shall be provided. The F.C.D. shall be of the least two hour Fire resisting Wire Glass Window fitted with self closing type openable in the direction of escape.

4. LIFT:

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

3. In case of failure of normal electric supply, it shall automatically trip of alternate supply and also shall have manually operated change over facility. Alternatively, the lift shall be so wired that in case of power failure, it comes down at ground level stands still with door open.

5. BASEMENT:

1. The Basement shall be adequately ventilated.

2. Smoke venting arrangements shall be provided in the basement conforming the relevant I.S. Specification and provision of NBC Part IV, 2016.

3. The entire basement shall be protected with Automatic Sprinkler System, auto detection system, Hydrants / Hose Reel Hose conforming relevant I.S. specification.

6. FIRE FIGHTING WATER :

Under Ground Water Reservoir of 50,000 ltrs and Over Head Water Reservoir of 28,000 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.

7. HYDRANT SYSTEM:

1. The building shall be provided with Down comer along with hose reel hose connected to terrace tank through the terrace pump 900 LPM capacity and one same capacitated stand-by pump and provide one 100mm internal diameter Pipe Line for with provision of landing valves at the Staircase landings / half landings at the rate of one such down comer 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 shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.

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

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

8. Sprinkler Installation:

The automatic Sprinkler installation shall be provided in the basement as per I.S. 9972 and alarm gang to be incorporated along with the sprinkler system.

9. 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 CO2/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 incase of normal power failure.

10. DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with at least one numbers of break glass type call boxes fitted with Hooters along with public address system, 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 sounded on the same floor and immediate alternate floor.

3. Smoke detector shall have to be installed in the basement as per I.S. specification.

11. FIRSAID FIRE FIGHTING SYSTEM:

First Aid firefighting arrangement in the style of placing suitable type of portable Fire Extinguishers, Fire buckets etc. in all floors, Gas Bank and vulnerable locations of the premises shall be made in accordance with I.S. 2190-92.

12. 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.
13. 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.
14. 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