

**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/20172018/744

DATE: 29/11/2017

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

To : Yogesh Rohra

Sub : Fire Safety Recommendation for Proposed Construction of: G + 4 Storied Building Under Group Residential at the Premises No.- 282/29/1/1 Diamond Park , Ward-144 ,

This is in reference to your Application No. IND/WB/FES/20172018/744, dated 29/11/2017, regarding Fire Safety Measure for Proposed construction of G + 4 storied building under group Residential at the premises no.- 282/29/1/1 Diamond Park , Ward-144 ..

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 existing building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body (Bidhannagar/Kolkata Municipal Corporation).
2. The floor area exceed 750 m² shall be suitable compartmented by separation walls up to ceiling level having at least Two hours Fire resisting capacity.
3. The interior finish decoration of the building shall be made of low flame spread materials

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conforming to I.S. specifications.

4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.

5. Roof is used as a refugee area in case of an emergency and it should be clear open to sky for all time. No permanent or temporary structure will be allowed on the roof.

6. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.

2. OPEN SPACE & APPROACH:

1. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.

2. 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 conform the relevant building rules with up to date amendments.

4. All the staircases shall be extended up to terrace of the building and shall be negotiable to each floor without entering any occupied area.

4. LIFT:

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

5. FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 100000 ltrs Overhead water reservoir of 10000 ltrs. in each building capacity exclusively for Fire Fighting purpose with replenishing arrangements @1000 lts/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.

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6. HYDRANT SYSTEM :

1. Provision of standard Hose Reel Hose in conjunction with landing valve supplied from the overhead reservoir through Booster Pump of 900LPM shall have to be made in the floors of the building satisfy the code of I.S. 3844-1989.

2. The building 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 one 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 charge with water all the time under pressure and shall not be less than 3.5 Kgs/Cm². All other requirement shall conform I.S. 3844-19889.

3. Yard Hydrant/Ringmain Hydrant with provision of one number with one number Fire Service inlet shall be installed the building in accordance with relevant I.S. specification.

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

7. 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 specifications 1946 - 1982.

2. The vertical ducts shall be sealed at alternative floor level.

3. The electrical installation shall be adequately protected with CO₂ / D.C.P Fire Extinguishers.

4. All electrical Sub-station shall be on the Ground Floor level and structurally to be separated from the main enclosure with the provision of entry from outside open air.

5. Alternative Power Supply:

Arrangements shall have to 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.

8. DETECTION AND ALARM SYSTEM :

1. 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 to I.S 2189-1988.

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2. Hooters will be sounded in such a manner so that an operation of a Detector or a Manual Call Point Hooter shall be sounded on the same floor and immediate alternate floor.

9. FIRST AID 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.

10. 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 the security staff shall be conversant with installed Fire Fighting equipment's 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 equipment's installed in the building to keep them in perfectly good working conditions at all times.

5. To eliminate risk of Fire Hazards, Good House Keeping both for insides and outside of the building shall be strictly maintained.

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

7. 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.

ON compliance of all the above Fire and Life Safety Recommendation, the Director General, West Bengal Fire and 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 installations of the building.

N.B. :Any deviation and changes the nature of use of the building in respect to approved plan drawing , without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

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