



Government of West Bengal
Office of the Director General
West Bengal Fire & Emergency Services
13D, Mirza Ghalib Street, Kolkata – 16

Memo No.: FSR/211862406300002180

Date : 30-07-2024

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

**To :
Larica Smart Home Llp
Mouza- kalikapur, J.L no- 95, Khatian no- 1767 , district- 24 parganas (south)**

Sub: Fire Safety Recommendation for the proposed occupancy of 9Nos G+IV storied (Block-A1,A2,B1,B2,B3,C,D,G1 and G2) 1No. G+II Storied (Block-E, Commercial) 1No. (Block -F) single storied club building under group Residential Building at premises No. Mouza - kalikapur, J.L no- 95,1224,1225,1618,to 1621, 1640 to 1643 LR - 1767 , P.S-Sonarpur, South 24 PGS. PIN 743613..

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This is in reference to your AIN 211862406300002180 dated 06-Jun-2024 regarding Fire Safety Recommendation for the proposed occupancy of 9Nos G+IV storied (Block-A1,A2,B1,B2,B3,C,D,G1 and G2) 1No. G+II Storied (Block-E, Commercial) 1No. (Block -F) single storied club building under group Residential Building at premises No. Mouza - kalikapur, J.L no- 95,1224,1225,1618,to 1621, 1640 to 1643 LR - 1767 , P.S-Sonarpur, South 24 PGS. PIN 743613.

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 favor of the aforesaid building for compliance of the following fire safety measure.

Recommendation :

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.If the floor area remains 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 conforming to I.S. specifications.



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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.

OPEN SPACE & APPROACH:

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 be less than 4.5 and 5 M respecting abutting the road.

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.

5.Fire and smoke doors at the entrances of all the Staircase enclosures as marked in the plan at each floor level of commercial block shall be provided. The F.C.D. shall be of at least two hour Fire resisting wire glass window fitted with self-closing type openable in the direction of escape.

LIFT:

1. The wall 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 treated as fire Lift as per I.S. Specification.

SPRINKLER INSTALLATION :

The automatic Sprinkler installation and along with wet riser having facility of hydrant with accessories at each half landing shall be provided in all commercial area of the building . Alarm gang to be incorporated along with the Sprinkler system.

FIRE FIGHTING WATER :

Underground water reservoir having water capacity at 100,000 ltrs. capacity exclusively for Fire fighting 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.

FIRE PUMP :

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.

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.

HYDRANT SYSTEM :

1 Yard Hydrant / Ring Main Hydrant with provision of Hydrant with accessory with 100mm. internal diameter Pipe Line with provision of landing valves at the ground level of each building. 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 Yard Hydrant / Ring Main Hydrant with provision Hydrant with accessory shall be installed surrounding the building in accordance with relevant I.S. specifications.

3.Proper Replenishing arrangements shall have to be made to keep the U.G.W.R. full at all time.



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 electrical installation shall be adequately protected with CO2 / D.C.P Fire Extinguishers Fire extinguisher.
- 3.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.
4. 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. and also for illuminating the staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

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.

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.

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.A crew of trained Firemen shall be maintained round the clock for fire safety of the building.
- 6.To eliminate risk of Fire Hazards, Good House Keeping both for insides and outside of the building shall be strictly maintained.
- 7.Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.
8. A certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Fire 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.



Director

West Bengal Fire & Emergency Services