

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIVISIONAL FIRE OFFICER  
WEST BENGAL FIRE & EMERGENCY SERVICES**

Memo No : IND/WB/FES/20222023/24532

DATE: 28/06/2022

**From :**

**The Divisional Fire Officer  
Fire Prevention Wing,  
West Bengal Fire & Emergency Services.**

**To :**

**MR. ADITYA KUMAR DAS & MR. NITYA GOPAL DAS  
MOUZA- ANDAL  
J.L NO- 52  
PLOT NO-2824.  
KHATIAN NO- 4719,4772  
P. S - ANDAL,  
DIST-PASCHIM BARDHAMAN. WEST BENGAL**

**Sub:Fire Safety Recommendation for a proposed construction of (B+G+14) Storied Residential Cum Commercial Building Of MR. Aditya Kumar Das MR. Nitya Gopal Das, Plot No-2824, Khatian No- 4719,4772, J.L No-52, Mouza-Andal P. S - Andal, Dist-Paschim Bardhaman. West Bengal**

This is in reference to your Application No. IND/WB/FES/20222023/24532,dated 28/06/2022, regarding the Fire Safety Measure for a proposed construction of (B+G+14) Storied Residential Cum Commercial Building Of MR. Aditya Kumar Das MR. Nitya Gopal Das, Plot No-2824, Khatian No- 4719,4772, J.L No-52, Mouza-Andal P. S - Andal, Dist-Paschim Bardhaman. West Bengal

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:

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 & Smoke doors at the entrance of all the staircase enclosures at each floor level shall be provided. The F.C.D. shall be of the least one hour Fire resisting Wire Glass Window fitted with self closing type openable in the direction of escape.

#### 5. LIFT:

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

2. One of the lifts shall be designed for Fire Lift. The word "Fire Lift" shall conspicuously be written at ground floor.

#### 6. FIRE FIGHTING WATER:

Underground water having capacity of 2,50,000 ltrs. and Overhead water reservoir of 25,000 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.

Arrangement is to be taken so that fire appliances can reach nearest to the Existing pond to draw water in case of emergency with replenishing arrangement at the rate of 1000 Lts./min. Preferably from Two different sources of water supply shall be provided.

#### 7. HYDRANT SYSTEM :

1. The building shall be provided with Down Comer of 150m. 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 900 Lts./min. at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kgs/cm<sup>2</sup>. All other requirements shall conform I.S. 3844 – 1989.

2. Provision of Hose Reel in conjunction with Down comer shall be made at each floor level conforming the relevant I.S. specification.

3. Ring Main Hydrant with provision of adequate numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specification.

#### 8. FIRE PUMP:

Provision of 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.

#### 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 specifications 1946 - 1982.

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

3. The electrical installation shall be adequately protected with CO<sub>2</sub> / 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.

#### 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.

#### 10. DETECTION AND ALARM SYSTEM :

1. Manually operated Electrical Fire Alarm system with at least two 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.

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.

#### 11. 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.

#### 12. GENERAL RECOMMENDATIONS:

1. Fire license shall have to be obtained for proposed storing and processing with LPG and other combustible articles (if any).
  2. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
  3. Floor numbers and directional sign of escape route shall be displayed prominently.
  4. 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.
  5. 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.
  6. A crew of trained Firemen under an experience officer shall be maintained round the clock for fire safety of the building.
  7. To eliminate risk of Fire Hazards, Good House Keeping both for insides and outside of the building shall be strictly maintained.
  8. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants 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**

Signature Not Verified  
Digitally signed by SANKAR  
SARKAR  
Date: 2022.06.28 15:46:49 IST