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**Government of West Bengal**  
**Office of the Divisional Fire Officer**  
**West Bengal Fire & Emergency Services**  
**G.T. Road, Bose Para, Mahesh-1, Serampore, Hooghly, Pin :- 712202**

**Memo No.: FSR/211862506300010802**

**Date : 17-03-2025**

**From :**  
**Divisional Fire Officer**  
**Hooghly Division**  
**West Bengal Fire & Emergency Services**

**To :**  
**Nikhil Bandhu Ghosh**  
**Mauza- Monoharpur, J.L No- 98, Dag No- 2396,2397, Ward No-9, P.S- Dankuni, Dist- Hooghly, Pin- 712311**

**Sub: Fire Safety Recommendation of a proposed ( G+4 ) Storied building under Group of Residential Building (First floor will be used as Mercantile building) in the name & style of " Nikhil Bandhu Ghosh " at Mouza - Monoharpur , JL NO – 98, Dag No – 2396,2397, Ward No – 9, P.O & P.S –Dankuni, Dist – Hooghly, Pin – 712311.**

**Memo No.: FSR/211862506300010802**

This is in reference to your AIN 211862506300010802 dated 27-Jan-2025 regarding Fire Safety Recommendation of a proposed ( G+4 ) Storied building under Group of Residential Building (First floor will be used as Mercantile building) in the name & style of " Nikhil Bandhu Ghosh " at Mouza - Monoharpur , JL NO – 98, Dag No – 2396,2397, Ward No – 9, P.O & P.S –Dankuni, Dist – Hooghly, Pin – 712311

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 :**

**A. CONSTRUCTION :**

1. The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
2. Provision of natural ventilation shall be provided.
3. Arrangements shall have to be made for sealing all the vertical and horizontal ducts and shafts by the materials of adequate Fire resisting capacity.

**B. OPEN SPACE & APPROACH :**

1. The open space surrounding the building shall conform to the relevant building rules.



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2. All the stair lobby shall be protected with Fire Check Doors as marked in the plan.
  3. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
- C. **STAIRCASE :**
1. 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.
  2. All the staircase shall be extended up to terrace of the building.
- 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. The lift shall have Fireman lift switch.
- E. **ELECTRICAL INSTALLATION & DISTRIBUTION :**
1. The electrical installation wiring including transformers, switch gears, main & meters etc. and all 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 & horizontal electrical ducts shall be sealed at each floor level by fire resisting material.
  3. The electrical installation shall be adequately protected with Co2 / D.C.P Fire extinguishers.
  4. Transformer if any, shall be protected with 50 Kg trolley mounded DCP Extinguisher.
  5. Alternative Power Supply :

Arrangements shall have to made to supply power with the help of a generator to operate 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. The DG shall be protected with adequate DCP and CO2 Extinguishers.

6. Arrangements for emergency illuminations at the common areas, corridors, staircases ,entrance ,exits ,etc. shall be provided

**F .AIR CONDITIONING SYSTEM [IF ANY]:**

1. Split type Air conditions shall be provided.

**G.DETECTION AND ALARM SYSTEM :**

1. The entire building shall be provided with Manually operated Electrical Fire Alarm system with break glass type manual call points and Automatic Fire Detection system at conference hall , Basement and common areas like lobbies, corridor , parking area, electrical panel room etc. 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, preferable to caretaker's room of the building, other requirements of the system shall be made conforming to I.S 2189-1988.

2. Public address system:

Public address system linked between all floors and control rooms shall have to established.

**H. FIRE FIGHTING WATER :**

Underground water reservoir having water capacity of 50000 ltrs and Overhead Water reservoir of 15000 Ltrs capacity on each building 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.

**I.HYDRANT SYSTEM :**

1.Each building shall be provided with 100 mm internal diameter Wet Riser/down comer with 63 mm landing valve, Hose Reel Hose, Hose Box at the each Staircase Landings/Half Landing. The system shall be so designed that shall be kept charged with water all the time under pressure ,running pressure shall not be less than 3.5 kgs/cm2 at the top of the installation . All other requirements shall conform to I.S .specifications 3844-1989.

2.Yard Hydrant/Ring Main Hydrant with provision of at least one Hydrant valve at each 45 mtr distance and with one number Fire Service inlet shall be installed in the building in accordance with relevant I.S specifications.



### SPRINKLER SYSTEM:

The common areas of the building, parking area at Ground floor & Business area at first floor shall be protected with QB type automatic sprinkler system, which shall confirm IS: 15105:2002.

### K.FIRE PUMP

Pump house shall be comprising of a jockey pump 450 LMP at 70mtr. Head, Main Fire pump with capacity 900 LPM at 70 mtr vertical head, and a Stand by Fire pump of same capacity to Main Fire pump. All the pumps shall be kept in auto mode. An arrangement of alternative power back-up to the Pump house shall provided.

### L.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 .2190-1992.

### K. GENERAL RECOMMENDATIONS :

1. Fire license shall have to be obtained for storing or processing any hazards articles (if any).
2. Fire Notice for Fire Fighting and evacuation plan from the building shall be prepared and be displayed at well visible place of the building in adequate numbers.
3. Floor numbers and directional signage (retro-reflective) 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 to 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 condition at all times .A record of the maintenance schedule to be maintained.
6. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building and A record to be maintained.
7. All the electrical wirings , Fittings, A.C. shall be checked and minted in regular basis to reduce the fire Risk.
8. Good house-keeping to be maintained to eliminate Fire Risk.
9. All the escape routes shall be kept obstruction free for easy evacuation of the occupants.

On compliance of all above Fire safety recommendations, Director General Fire & Emergency Services shall be approached through govt. e-district portal for Fire Safety Certificate in the occupancy shall be issued on being satisfied with the tests and performances of the safety aspects of installation 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.



Signature valid

Digitally Signed.  
Name: Ranjan Kumar Ghosh  
Date: 17-Mar-2021 10:37:17  
Reason: D-Sign  
Location: E-Dist 2.0

Divisional Fire Officer

West Bengal Fire & Emergency Services

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