



Government of West Bengal
Office of the Divisional Fire Officer
West Bengal Fire & Emergency Services
English Bazar Fire Station, Ghorapir, Malda. Pin:-732101

Memo No.: FSR/211862506300011922

Date : 27-03-2025

From :
Divisional Fire Officer
Malda Division(Member Convenor)
West Bengal Fire & Emergency Services

To :
Soumen Saha And Others
Mangalbari , Old Malda, Malda, under Old Malda Municipality, Malda, Pin No. -732142

Sub: Fire Safety Recommendation for The Proposed construction of B+G+6 Storied Residential Cum Commercial Building under group of Residential in the name of Sri Soumen Saha And Others at MOUZA:-Mangalbari Samadai, J.LNo-105, KhatianLR-7200,7213,11414,18292,PLOT NO.:- L.R 594, Holding No-31/1245,Ward No-09,Mangalbari , Old Malda, Malda, under Old Malda Municipality,Pin No. -732142 .

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This is in reference to your AIN 211862506300011922 dated 28-Feb-2025 regarding Fire Safety Recommendation for The Proposed construction of B+G+6 Storied Residential Cum Commercial Building under group of Residential in the name of Sri Soumen Saha And Others at MOUZA:-Mangalbari Samadai, J.LNo-105, KhatianLR-7200,7213,11414,18292,PLOT NO.:- L.R 594, Holding No-31/1245,Ward No-09,Mangalbari , Old Malda, Malda, under Old Malda Municipality,Pin No. -732142

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 drawing conforming relevant building rules of local Administrative (Municipal /panchayat) body.
2. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specification.
3. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
4. Arrangement shall have to be made for sealing all the vertical ducts by the materials of adequate fire resisting



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9) A sign shall be posted and maintained on every floor at or near the lift indicating that in case of fire, occupants shall use the stairs unless instructed otherwise. The sign shall also contain a plan for each floor showing the locations of the stairways.

10) In case of failure of normal electric supply, it shall automatically trip over to alternate supply. This changeover of supply could be done through manually operated changeover switch. Alternatively, the lift shall be so wired that in case of power failure, it comes down at the ground level and comes to stand still with door open.

BASEMENT

1. The basement shall be adequately ventilated.
2. The additional staircase from the open air as shown in the drawing shall be constructed besides the ramp conforming relevant I.S. specification.
3. The basement shall be protected with Auto sprinkler system.
4. Mechanical extractor for smoke venting system from basement levels shall also be provided. The system shall be of such design as to operate on actuation of heat/ smoke sensitive detector or sprinkling. It shall also have an arrangement to start it manually.
5. Mechanical extractors shall have an alternative source of supply.
6. Mechanical extractors shall have to be designed to permit 30 air changes/hour in case of fire and shall be incorporated with an alternate source of power supply, for normal operation air changes shall be 12-15 air changes per hour.

FIRE FIGHTING WATER

The Centre shall have to be equipped with 80,000 lts. of underground stored water with replenishing arrangement @ 1000 lts./min preferably from two different sources of water supply.

Wet Riser System IS:3844

100mm dia riser with single out let landing valve shall have to be provided.

AUTOMATIC SPRINKLER SYSTEM IS:15105

The automatic sprinkler installation shall be provided in basement .

HOSE REEL SYSTEM (IS 884:1985):-

i) Provision for Hose Reel in conjunction with wet riser shall be made at each floor of the building level from the underground reservoir through main pump conforming the relevant I.S. specification.

ii) The Hose reel hose system should be provided at each floor of the buildings. The internal dia of the said hose reel shall be 19 mm to 32 mm and the discharge capacity not less than 22.5 LPM. While the length of the hose reel not more than 36.50 meters. The distance of such installation should be in such a way that no part of the floor is more than 6 meters distance from a hose nozzle when fully extended.

Electrical Installation- shall be as per code of practice 1946: 1978, (NBC-Gr-iv) & Indian Electricity rules-1956 with up to date amendment. No electrical switch gear/ distribution should be installed below the staircase.

Pumps for fire fighting Installation (IS 12469:1988):-

- i) The standard code of practice recommended that all water based fixed



fighting installations should be fed by two separate automatic pumps, one of which should act as stand by. Each pump should be designed to deliver water at required pressure and discharge, taking into account the height and volume of the building.

ii) The Fire pumps should be provided near the underground static water storage tank with minimum pressure of 3.5 kg. / sq. cm. at terrace level or farthest point.

iii) One electric and one diesel pump of capacity 1620 LPM and One electric pump of capacity 180 LPM should be install.

iv) The pumps should be installed and arranged in such manner so that it will start automatically due to fall in pressure as prefixed in the installation by installing a Jockey pump. Provision of Jockey pump shall also be made to keep the water-based system under pressurized condition at all times.

v) All the pumps shall be so designed as to supply water at the designed pressure and discharge into the water-based system which shall be installed in the buildings.

vi) An independent identical pump for the purpose of sprinkler installation shall be made available. All such arrangement shall be done as per above code of practice.

vii) All the pumps shall be incorporated with both manual and auto starting facilities

DETECTION ALARM SYSTEM I.S. 2189-1988.

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 entrance of ground floor of the building, other requirements of the system shall be made conforming I.S. specifications.

ALTERNATE POWER SUPPLY

Arrangement shall have to be made to supply of power with the help of generator to operate at least fire pump, illumination of staircase, corridors etc. and other places of assembly area in case of normal power failure.

FIRST AID FIRE FIGHTING SYSTEM

First Aid Fire Fighting 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.

GENERAL RECOMMENDATIONS:

1. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.
2. Fire notice for firefighting and evacuation from the building shall be prepared and be displayed at all vulnerable place of the building as per clause 4.11 Annex D of N.B. Code.
3. Floor number and direction sign of escape shall be displayed prominently as per clause 4.11 Annex D of N.B. Code.
4. The employees and security staff shall be conversant with installed firefighting equipment of the building on to operate in the event of fire and testing as per clause 4.11 Annex D of N.B. Code.
5. Arrangement shall be made for regular checking, testing and proper maintenance of all the fire safety installation and equipment installed in the building to keep them in perfectly good working conditions at all times.
6. Mock fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
7. Considering the gravity of growing hazard in the township, a crew of trained firemen under one experienced officer shall be maintained round the clock along with water tender (type-B) conforming I.S. 948 : 1983.
8. After every three years 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 installation of the building.

On compliance of all the above Life and Fire Safety Recommendation, the Director General, West Bengal Fire & Emergency Services shall be approved for necessary inspection and testing of all 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.

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 cancel.

Memo No.: FSR/211862506300011922



Signature valid

Digitally Signed.
Name: SHIBA NANDA BARMAN
Date: 27-Mar-2022 14:37:20
Reason: D-Sign
Location: E-Dist 2.0

Divisional Fire Officer

West Bengal Fire & Emergency Services

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capacity.

OPEN SPACE & APPROACH

1. The open space surrounding the buildings shall conform the relevant building rules as well as permit the accessibility and manoeuvrability of fire appliances with turning facility having minimum 6.5 M width in each side.
2. The approach roads shall be sufficiently strong to withstand load of fire engine weighing up to 45 M.T.

In case of Air Condition (IS 659:1991):-

It shall conform to the following:-

- i) Escape routes like staircases, common corridors, lift lobbies etc. shall not be used as return air passages.
- ii) Regular check up of all split type window machine to prevent dust, foreign materials in the air inlet should maintained to prevent spontaneous combustion.
- iii) In case of central A.C. system, the same shall be incorporated with automatic dampers with fusible link with a View to shut down the system automatically in case of any fire in AC system.
- iv) Regular checking, testing, cleaning the Air inlet is must.
- v) Arrangements shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning system.

STAIRCASE

- 1) The staircase of the building shall be enclosed type. Entire construction shall be made of bricks/R.C.C. 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 marked in the plan. Corridors and the exit doors shall conforming the relevant building rules which upto date amendment.
- 4) All the staircases shall be extended upto terrace of the building and shall be negotiable to each other without entering into any room.

LIFT

- Memo No.: FSR/211862506300011922
- 1) Walls of all lift enclosures shall have a fire rating of two hours; lifts shafts have a vent area not less than 0.2 M²
 - 2) Lift Motor Room shall be located preferably on top of the shaft and separated from the shaft by the floor of the room.
 - 3) Landing doors in all lift enclosures shall have a fire resistant of not less than 1 hour.
 - 4) All Lift Car door shall have a fire resistance rating of half an hour.
 - 5) Exit from the lift lobby, if located in the core of the building, shall be through a self closing smoke stop door of half an hour fire resistance.
 - 6) Grounding Switch(es), at ground floor level shall be provided on all the lifts to enable the fire service to ground the lifts..
 - 7) Collapsible gates shall not be permitted for lifts and shall have solid lift doors with fire resistance of at least 1h.
 - 8) The number of lifts in one row for a lift bank shall not exceed 4 and the total number of lifts in the bank (of two rows) shall not exceed 8. A wall of 2h Fire rating shall separate individual shafts in a bank.

