



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

Memo No.: FSR/211862506300015940

Date : 28-08-2025

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

**To :
Trustworthy Nirman Llp And Others
HOLDING NO.-121,S.N.GHOSH AVENUE, MOUZA-ELACHI,J.L.NO-70,WARD NO-26,P.S-NARENDRAPUR,DIST-24
PGS(S).**

Sub: Fire Safety Recommendation for proposed Construction of G+V storied building under group of occupancy Residential Building at the premises no.- Holding no.-121, S. N. Ghosh Avenue, Mouza- Elachi, JL No.- 70, LR Dag no.- 653, 654, 655, 656(P), 657(P), RS Dag no.- 456, 457, 467, 468., LR Khatian No.- 3924, 3925, 3926, RS Khatian No.- 99, 408, 415, 618 & 632., Ward No.= 26, PS- Narendrapur, Dist.- South 24 Parganas., Under Sonarpur Municipality..

This is in reference to your AIN 211862506300015940 dated 17-Jul-2025 regarding Fire Safety Recommendation for proposed Construction of G+V storied building under group of occupancy Residential Building at the premises no.- Holding no.-121, S. N. Ghosh Avenue, Mouza- Elachi, JL No.- 70, LR Dag no.- 653, 654, 655, 656(P), 657(P), RS Dag no.- 456, 457, 467, 468., LR Khatian No.- 3924, 3925, 3926, RS Khatian No.- 99, 408, 415, 618 & 632., Ward No.= 26, PS- Narendrapur, Dist.- South 24 Parganas., Under Sonarpur Municipality.

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. Materials for rapid flame spread categories including untreated wood fiber board etc. shall be not use. The doors and windows preferably shall be made of metal.
2. The interior finish decoration of the building shall be made with the materials with low flame spread and low smoke and toxic gas generating categories conforming I.S. Specification.
3. Arrangement shall have made for sealing all the vertical service ducts by the materials of adequate



Fire resisting capacity.

The whole construction of the proposed buildings shall be carried out as per approved plan drawings

B. Open Space & Approach:

1. The open space surrounding the building shall be kept clear open to sky and shall confirm the relevant building rules as well as permit the easy accessibility and manoeuvrability of the Fire appliances with turning facility.
2. The approach road and roads surrounding the building shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
3. The width and height of the entry gates to the promises shall not be less than 4.5m and 5m respectively.
4. Driveway should be free of any type obstruction. No parking will be allowed on the Drive Way.

C. Staircase:

1. The staircase of the building shall be enclosed type, entire construction shall be made of brick / R.C.C. type having Fire resisting capacity not less than 4 hours respectively marked in the plan.
2. The staircases shall have permanent vents at the top equal to 5% of the cross-sectional area of the staircase's enclosures and open able sashes at each floor level equal to 15% of the said cross section are shall have to be provided in the external wall of the building.
3. All the staircase of the building shall be negotiable to each other in each floor without entering into any room and shall be extended up to respective terrace.
4. Considering the staircases are only means of evacuation, emergency lighting arrangement directional, exit, sign etc. shall be made conforming the relevant I.S. Code in this regard.

D. LIFT:

- i) The wall of the lift enclosure shall be at least two hours Fire resisting type.
- ii) Collapsible gate shall not be permitted.
- iii) FCD shall have to be Provide at lift lobby.

E. Fire Fighting Water:

1. Water exclusively for Fire Fighting UGWR- 30000 Ltr. (Underground Water Reservoir) operation shall be ensure minimum and Over Head Water Reservoir- 10,000 Lts all the time.
2. The Fire water reservoir shall be having overflow arrangement with the domestic reservoir to avert stagnancy of water.
3. Provision of necessary manhole shall be made on the top of the reservoir as per specification.
4. Provision of replenishment at the rate of at least 1000lts. /min. from two separate sources of water supplies shall be made.

F. WATER LAYOUT SYSTEM

a) Ring main Hydrant System:

- i. 100 mm dia Ring main water layout arrangement covering the entire premises of the project with provision of pillar type yard hydrants with hose boxes, containing 2 lengths of 63mm delivery hose and short branch pipe shall be provided at all the strategic location and surrounding the building conforming I.S. 3844-1989 (up to date amendment).
- ii. The system shall be so designed that shall always be kept charged with water under pressure and capable to discharge min. 900 lts./min
- iii. Provision of One number fire service inlet shall be installed surrounding the premises in accordance with relevant I.S. specifications.

b) Down comer & Hose Reels System :-

- I. The building 100 mm down comer with all accessories shall have to provide as per suitability.
- II. With provision of outlets in each floor at the staircases landings/half landings along with all accessories as per I.S. Specification with suitable place.



- III. Provision of hose reel units on swivelling drum in conjunction with Down Comer near each landing valves shall be made at each floor level of the building.
- IV. Provision of landing valve with all accessories at the each floor staircases landing/Half landing as per suitability.
- V. All other requirements of the water base Fire Protection System shall be made as per I.S. Specification 3844-1989 (with up to date amendment).

G. Sprinkler Installation:

- i. The automatic sprinkler installation shall to be provided at Ground floor car parking area and Community Hall area of the building as per I.S. 9972. Alarm gang to be incorporated along with the sprinkler system.
- ii. One test line with at least one no. of sprinkler head shall have to be provided as per suitability.

H. Fire Pump:

1. 900 Lts. Per min. giving a pressure not less than 3.5 kg/cm². The Main pump provided will be of multi stage type with suction and delivery size not less than 15 cm. dia. A set ball valve to supply the tank with at least 900 ltrs. Per minute from the fire pump.
2. A stand by pump of equal capacity shall be provided preferably be diesel driven.
- The suction of pump shall preferably be positive type; in case of negative suction the system shall be wet riser cum down comer with suitable terrace pump with overhead tank.

I. ELECTRICAL DISTRIBUTION System:

1. Electrical distribution system of all the building shall be made in the form of concealed wiring or in heavy gauge M.S. conducted continuously bonded to earth cables shall be I.S. marked and preferably be of F.R.L.S. categories.
2. Electrical distribution System shall conform all the requirements laid down in I.S. 1646-1982.

J. Detection and Alarm System:

1. Addressable analogue manual call boxes incorporating with sounders shall be installed in all the floor area of the building in such a manner that maximum travel distance shall not be more than 22.5m in order to reach any of the call point.
2. Auto fire detection system with the help of smoke detector shall be installed in Community hall areas of below and preferably above false ceiling of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988.
3. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sound on the same floor and immediate alternate floor.

K. AIR CONDITIONING SYSTEM (if any)

- 1) The A.H.U shall be separated for each floor with the system Air Ducts for individual floors.
- 2) Arrangements shall be made for isolation at the strategic location by incorporating auto dampers in the air conditioning system.
- 3) The system of auto shutdown of A.H.U shall be incorporated with the detection and alarm system.
- 4) The air handling unit's room shall not be used for storage of any combustible materials.

L. Other Protection Measures:

Close circuit T.V. shall have to be provided in the building.

M. First Aid Fire Fighting System:

1. First Aid Firefighting arrangement in the style of placing suitable type of portable Fire Extinguishers- I.S.I. mark, Fire Buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190-1992.

N. Alternative power supply:

Arrangement shall have to made to supply with the help of a generator to operate at least the fire pump, pump for deep tube well, fire alarm system, fire lift etc. and also for illuminating the staircase, corridors etc. and other places of assembly of the building in case of normal failure.



O. General Recommendations:

1. Floor numbers and directional sign, showing the nearest exit Refuge Area. Fire Points etc. shall have photo luminescent signals at each floor of all blocks of building including shall be made available conforming the relevant I.S. Specification.
2. Provision of emergency illuminating exit shall be made at all floor levels of all blocks of building conforming the I.S. Specification.
3. Fire license have to be obtained for proposed storing and processing with highly combustible articles
4. If diesel oil is stored beyond the specified quantity license shall be accorded from the appropriate authority.
5. The occupants, employees and security staff shall be conversant with installed First aid Fire Fighting equipment's of the building and to operate in the event of Fire and Testing.
6. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipment's and means of escapes installed in the building to keep them in perfectly good working conditions at all times by authorized competent agency is this regard.
7. Practice and evacuation drill shall be arranged at regular interval of time involving all the occupants and security staff shall be recorded.
8. Trained and experienced Fire Fighting staff under the qualified and experienced fire officer shall be maintained round the clock.
9. This certificate is to be obtained from the **Director General, West Bengal Fire & Emergency Services** certifying about the satisfactory services, performance of all the Lift and Fire Safety arrangements and installation of the building.

This shall be tested as Fire Safety Recommendation on compliance of all the above Fire and Life safety recommendations, the **Director General, West Bengal Fire & Emergency Services** shall be approached for necessary inspection and testing of the installation, Fire Safety Certificate in favor 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 cancelled.

Memo No.: FSR/211862506300015940



Signature valid

Digitally Signed.
Name: ABHINAV PANDEY
Date: 28-Aug-2023 17:50:37
Reason: D-Sign
Location: E-Dist 2.0

Director

West Bengal Fire & Emergency Services

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