



Government Of West Bengal  
Office Of The Director General  
West Bengal Fire & Emergency Services  
13D, Mirza Ghalib Street, Kolkata - 16

Memo no.:FSR/0125186231101153

Date: 22-01-2024

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

To: CREATIVE CONSTRUCTION  
, JESSORE ROAD, MADHYAMGRAM, UDAYRAJPUR, MADHYAMGRAM -700129

Sub: Fire Safety Recommendation in respect of One no. Proposed Construction of (B+G+VII) Storied Residential cum Commercial building under group residential building at Mouza – udayrajpur, J.L. No.- 43, RE.SU.NO.- 06, Touzi No.-146, L.R. Khatian No.- 14459, L.R. Dag No.- 2461, Ward No.- 05, Holding No. , ID No.- , Jessore Road (North), P.S- Madhyamgram, Dist.- North 24 Paraganas Under Madhyamgram Municipality.

This is in reference to your application no. 0125186231101153 dated 13-10-2023 regarding the Fire Safety Recommendation in respect of One no. Proposed Construction of (B+G+VII) Storied Residential cum Commercial building under group residential building at Mouza – udayrajpur, J.L. No.- 43, RE.SU.NO.- 06, Touzi No.-146, L.R. Khatian No.- 14459, L.R. Dag No.- 2461, Ward No.- 05, Holding No. , ID No.- , Jessore Road (North), P.S- Madhyamgram, Dist.- North 24 Paraganas Under Madhyamgram 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 is issuing Fire Safety Recommendation in favor of the aforesaid building subject to the compliance of the following fire safety measure.

**Recommendation:**

**A. 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 Building Rules.
- 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)Arrangements shall have to be made for sealing all the vertical & horizontal ducts by 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 meter and 5 meter.

#### C. 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 2 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 staircases shall be made as marked in the plan, corridors and the exit doors shall conforming 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 other through a connecting Corridor or Lobby.
- 5)Fire and smoke doors at the entrances of all the staircase enclosure as marked in the plan at each floor of both Stair cases shall be provided. The F.C.D shall be of at least one hour fire resisting wire glass window fitted with self-closing type open able in the direction of escape as marked up to second floor.

#### 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)One of the lift shall be designed for fire lift. The word "FIRE LIFT" shall be conspicuously written at ground floor.
- 4)Lift terminated to Basement shall be enclosed with FCD as well as Pressurized.

#### E. BASEMENT :

- 1)The basement shall be adequately ventilated.
- 2)Basement shall not be used for other purpose except car parking.
- 3)The basement shall be protected Auto Sprinkler System, Hydrant System and Hose Reel System as per requirement.
- 4)Mechanical extractor for smoke venting system from lower/upper 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.

#### F. FIRE FIGHTING WATER:

Overhead water reservoir having water capacity of 25,000 Ltrs . exclusively for firefighting purpose with replenishing arrangements @ 1,000 L.P.M. preferably from two different sources of water supply shall be provided. The Fire 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.

#### G. HYDRANT SYSTEM :

1) The building shall be provided with down comer of 100 mm internal diameter pipe line with provision of landing valves at the staircase landings / half landings at the rate of one such down comer for 1000 sq.m of floor area. The overhead Reservoir shall be connected with the adequate diameter pipe with down comer of hydrant of 100 mm diameter pipe line with suitable terrace Pump. The system shall be so designed that shall be kept charged with water all the time under pressure and capable to discharge 900 L.P.M. at the ground floor level outlet and minimum 900 L.P.M. at the top most outlet. In both cases the running pressure shall not be less than 3.5 kg/sq.cm. All other requirements shall conform I.S. 3844-1989.

2) Provision for Hose Reel in conjunction with wet riser shall be made at each floor level. Confirming the relevant I.S. specification.

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

4) Provision of three way collecting head for uses of Fire services must be provided at the entrance of the building.

#### H. SPRINKLER INSTALLATION :

The automatic sprinkler installation shall be provided in and in all floor areas of entire Basement including Commercial Area of the building as per I.S. 9972. Alarm gang to be incorporated along with the sprinkler system.

#### I. FIRE PUMP :

Provision of the Terrace Fire pump shall have to be made to supply water at the rate designed pressure and discharge 900 LPM into the water based system which shall be installed in the building. One such pump having same discharge of Main Pump (LPM-900) shall always be kept on stand-by purposes.

#### J. ELECTRICAL INSTALLATION & DISTRIBUTION ( if Sub Station):

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. Alternative power supply – Arrangements 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 illumination in case, corridors etc. and other places of assembly of the building in case of normal power failure.

#### K. DETECTION, ALARM AND SUPPRESSION 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 each floor connecting with audio-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 I.S. 2189-1988.

2) Auto fire detection system with the help of heat and smoke detector shall be installed in all places of below and

preferably above false ceiling of the building and Basements of rooms where valuable articles have been stored in accordance with I.S. 2189-1988

Commercial Area. The system shall also be made in accordance with the requirements of the system shall be made in

- 3) The suppression system shall be made with Fire Extinguishers particularly area of Electrical Meter Room and in a room of irreplaceable articles.
- 4) Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will be sounded on the same floor and immediate alternate floor.
- 5) Public Address System: The system shall be linked between all floors and Control Room.

#### L. AIR CONDITIONING SYSTEM ( IF ANY):

- 1) The A.H.U shall be separated for each floor with the system Air Ducts for individual floor.
- 2) Arrangement shall be made for isolation at the strategies location by incorporating auto damper in the Air Conditioning System.
- 3) The system of auto shut down of A.H.U shall be incorporated with the auto detection and alarm system.
- 4) The air handling unit's room shall not be used for storage of any combustible materials.

#### M. FIRST AID FIRE FIGHTING SYSTEM :

First Aid Fire fighting arrangements 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.2190-2010.

#### N. GENERAL RECOMMENDATIONS :

- 1) Fire License shall have to be obtained from the License section of the Department for proposed storing of highly combustible articles and processing with L.P.G, which come under the per view of License Section.
- 2) Fire Notice for fire fighting and evacuation from the building shall be prepared and be displayed at a vulnerable places of the building.
- 3) Floor numbers and directional sign of escape routes shall be displayed in the vicinity of the occupants.
- 4) The employees and security staff shall be conversant with installed fire fighting equipment of the building and to operate in the event of Fire & Testing.
- 5) Arrangement shall be made 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 fireman under the experienced officer shall be maintained round the clock for safety of the building.
- 7) Mock fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.
- 8) Each year 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 & fire safety arrangements and installation of the building.



shall be treated as Fire Safety Recommendation  
Director General, West Bengal Fire & Emergency  
Installation, Fire Safety Certificate in favour of  
performances of safety aspects of installation of the building.

compliance of all the above fire and life safety recommendations,  
services shall be approached for necessary inspection and testing of  
occupancy shall be issued on being satisfied with the tests and

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.

Signature valid

Digitally Signed:  
Name: ABHJIT S. NID  
Date: 22-Jan-2024 10:04  
Reason: Approved  
Location: West Bengal

DIRECTOR  
West Bengal Fire & Emergency Services

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