

mment Of West Bengal Of The Director General gal Fire & Emergency Services Ghalib Street, Kolkata - 16

Memo no.:FSR/012518621870023

Date: 13-04-2021

From:

Director

Fire Prevention Wing,

West Bengal Fire & Emergency Services

To: Prolay Mandal, C.A. of Anshul Agarwala and Education Unlimited Trust 164/1, Manicktala Main Road, Kolkata -700054

Sub: Fire Safety Recommendation for proposed construction of G+XII storied under group Residential Building at premises no. 79/6, Acharya Jagadish Chandra Bose Road, Kolkata- 700014.

This is in reference to your application no. 0125186218700232 dated 01-03-2021 regarding the Fire Safety Recommendation for proposed construction of G+XII storied under group Residential Building at premises no. 79/6 Acharya Jagadish Chandra Bose Road, Kolkata-700014.

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 th relevant building rules of local Municipal Body.

2. The interior finish decoration of the building shall be made of low flame spread materials conforming to 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 the materials of adequate Fil resisting capacity & the doors of service ducts / shafts of 2hr. Fire rating.

## B.OPEN SPACE & APPROACH:

1. The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility as maneuverability of Fire Appliances with turning facility.

2. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.

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45 and 5 M respecting abutting the remises shall not be less 3. The width and height of · 首张 黄原(等位)等许多。 road.

## C.STAIRCASE:

- Entire construction shall be made of bricks / RCC type having Fire 1. The staircase of the building a Resisting Capacity not less than 4 h
- nent vents at the top and open able sashes at each floor level in the 2. The staircase of the building sh
- are as shown in the plan. Corridors and the exit doors shall conforming the external wall of the building. 3. The width of the Staircase shall h
- enclosures as shown / marked in the plan at each floor level shall have relevant building rules. Fastiavo hour Fire resisting Wire Glass Window fitted with self closing type 4. Fire & Smoke doors at the entrance to be provided. The F.C.D. shall he at openable in the direction of escape. and the least of t

### D.LIFT:

- fours Fire Resisting type. 1. The walls of the lifts enclosure shall be a
- 2. Collapsible gate shall not be permitted.
- 3.In case of failure of normal electric supply. It shall automatically trip of alternate supply and also shall have manually operated change over facility. Alternatively, the till shall be so wired that in case of power failure, it comes down at ground
- 4.All the lifts of the building shall be designed as high speed "FIRE LIFT" and shall be conspicuously indicated / marked.

## E.REFUGE AREA:

- 1. The Refuge areas shall be provided on the external wall as cantilever projection for Residential Building as shown in plan drawings not less than 15 Sq. mtr. area at the lavel of 26.095 M as shown / marked in the plan.
- 2. The refuge areas shall be of Fire resisting construction and protected with self-closing F.C.D. at the entrance from the corridor or the staircase landings.
- 3. The position of refuge Areas shall be such that they are negotiable by the Fire service Aerial Ladder from the ground floor.

# F. FIRE FIGHTING WATER:

Under Ground Water Reservoir of 120,000 ltrs capacity for entire premises and Over Head Water Reservoir of 10,000 Ltrs capacity exclusively for Fire Fighting purpose with replenishing arrangements @1000 ltrs/min. preferably from two differer sources of water shall have to 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.

## G.WATER LAYOUT SYSTEM:

1. The building shall be provided with Wet Risers of 100 mm dia internal diameter Pipe Line each with provision of landir valves at the Staircase landings / half landings at the rate of one such riser for 1000 Sq. m. of floor area. The system sh be so designed that shall be kept charged with Water all the time under pressure and capable to discharge 2280 lts/min.

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one ground floor level out: and state to estate, at the top most and farthest outlet. In both cases the running pressure shall not be less than 3.5 conforming i.S. 3844 – 1989.

- 2. Provision for Hose Reel units and the second with Riser shall be made near each landing valves.
- 3. Provision of adequate numbers of final in a sufficient of the limit alterest one number Fire Service Inlet shall be installed surrounding the building in accordance with release 150 to 150

### H.FIRE PUMP:

- 1. Provision of the Fire Pump shall have to a made to supply water at the rate-designed pressure and discharge into the Water based system, which shall be in stated in the building. One such pump shall always be kept on stand-by preferably be of diesel driven type.
- 2. Provision of Jockey Pump shall also have to its made to keep the Water based system under pressurized condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall preferably of positive type or in case of inegative suction the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank.

### I.Sprinkler Installation:

The automatic sprinkler installation shall be provided in entire 1st floor to 4th floor area of the building and alarm gang to be incorporated along with the sprinkler system. Sprinkler test line shall have to be provided.

- J. 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. specification 1946 1982.
- 2. Electrical distribution system shall conform all the requirements as laid in I. S. 1646-1982.

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- 3. The electrical installation shall, be adequately protected with automatic CO2/D.C.P.
- 4.All electrical installation viza Transformer Switch Gear L. T., H. T. rooms shall be protected with both auto detection and suppression systems as per suitability.
- 5. Alternative Power Supply:

Arrangements shall have to be 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 incase of normal power failure.

### K.DETECTION AND ALARM SYSTEM:

- 1. Manually operated Electrical Fire Alarm system with atleast two humbers of break glass type call boxes fitted with Hooters along with public address system at each floor in each block 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. Smoke / Heat detectors shall have to be provided in 1st floor to 4th floor area as per suitability as per I.S. specification.

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3.CCTV & Public Address System linked between all foors and Fire Control Room shall have to be established. Fire Control Foors (A was designed Fire Control Room with C.C.T.V. and Fire Control Panel and monitoring 24 X 7. Preparation of Exercise Evacuation: ii. There is need to have a clear policy and proper implementation of emergency seasons and proper implementation.

### L.FIRSTAID FIRE FIGHTING SYSTEM

First Aid firefighting arrangement in the style of placing suitable type of portable Fire Extinguishers, Fire buckets etc in all floors, basements and vulnerable locations of the premises shall be made in accordance with I.S. 2190-92.

### M.GENERAL RECOMMENDATIONS:

- 1. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
- 2. Floor numbers and directional sign of escape route shall be displayed prominently.
- 3. The occupancy and security staff shall be conversant with installed Fire Fighting equipments of the building and to operate in the event of Fire and Testing.
- 4. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipments installed in the building to keep them in perfectly good working conditions at all times.
- 5.A crew of trained Fireman under an experienced officer shall be maintained round the clock for safety of the building.
- 6. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
- 7. The certificate has 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 and installation of the building.

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 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 drawings, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

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Director
West Bengal Fire & Emergency Services

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