



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

Memo no.:FSR/0125186208706281

Date: 22-06-2021

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

**To: JITENDRA KUMAR RAY**  
224, ACHARYA JAGADISH CHANDRA BOSE ROAD, KOLKATA-700017, WARD NO-69, BOROUGH-VIII

**Sub: Fire Safety Recommendation for proposed U/S 394 K.M.C. ACT.1980 For commercial Building Complex in the name or style of Indian Church Trustees (Bishops College) (Block-A, B+G+XVI), Storied Office building ( Block-B, G+XII ) Storied residential building for hostel accommodation & Proposed addition and alternation( Block-C , G+IV )Storied residential block adjoining with the existing (Block-I) two storied hostel block on the northern side, existing Block-II, II (Two) storied building, existing Block-III, IV (Four) storied building. At premises no. 224, A.J.C.BOSE ROAD, Kolkata-700017, Ward no- 69, Borough-VIII, P.S- KARAYA, P.O- Circus Avenue, WEST BENGAL.**

This is in reference to your application no. 0125186208706281 dated 25-10-2020 regarding the Fire Safety Recommendation for proposed U/S 394 K.M.C. ACT.1980 For commercial Building Complex in the name or style of Indian Church Trustees (Bishops College) (Block-A, B+G+XVI), Storied Office building ( Block-B, G+XII ) Storied residential building for hostel accommodation & Proposed addition and alternation( Block-C , G+IV )Storied residential block adjoining with the existing (Block-I) two storied hostel block on the northern side, existing Block-II, II (Two) storied building, existing Block-III, IV (Four) storied building. At premises no. 224, A.J.C.BOSE ROAD, Kolkata-700017, Ward no- 69, Borough-VIII, P.S- KARAYA, P.O- Circus Avenue, WEST BENGAL.

**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:**

- The whole construction of the Existing building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.
- The floor area exceeds 750 m2 shall be suitable compartmented by separation walls up to ceiling level having at least Two

hours Fire resisting capacity.

- The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
- Provision of ventilation at the crown of the central core-duct of the building shall be provided.
- Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity & the doors of service ducts / shafts of 2hr. Fire rating.

(B) OPEN SPACE & APPROACH:

- The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire Appliances with turning facility.
- The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
- The width and height of the access gates into the premises shall not be less than 4.5 and 5 M respecting abutting the road.

(C) STAIRCASE:

- The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / RCC type having Fire Resisting Capacity not less than 4 hours.
- 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.
- The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall conforming the relevant building rules and well as rules of the cinematograph act. with up to date amendments.
- All the staircases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.
- Fire & Smoke doors at the entrance of all the staircase enclosures as shown/marked in the plan at each floor level shall be provided. The F.C.D. shall be of the least one two hours Fire resisting Wire Glass Window fitted with self closing type openable in the direction of escape.

(D) LIFT :--

- The walls of the lift enclosure shall be at least two hours Fire Resisting type.

- Collapsible gate shall not be permitted.
- One of the lifts shall be designed for Fire Lift. The word "Fire Lift" shall conspicuously be written at ground floor.
- 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 lift shall be so wired that in case of power failure, it comes down at ground level stands still with door open.
- All other requirements shall confirm the I.S. specification including the communication facility in the lift cars connecting with the Fire Control Room of the building.

(E)FIRE FIGHTING WATER :

- Underground water reservoir having water capacity of 100000 Ltrs. and O.H.W.R. 20000 ltrs capacity exclusively for firefighting purpose shall be kept full at all time.
- The Fire water reservoir shall have overflow arrangement with the domestic water reservoir as well as to avoid stagnancy of water.
- Provision of necessary manhole shall be made on the top of this reservoir as per specification.
- Provision of replenishment at the rate of at least 1000 ltrs./min. from two separate source of water supplies shall be made.
- The deep tube wells for the replenishment of the reservoir shall be incorporated with auto starting facility with actuation of auto detection and suppression arrangement of the premises and shall also be connected with dual power supply units.
- Provision of placing Fire Appliances on the underground water reservoir to be made to draw water in case of emergency.

(F)WATER LAYOUT SYSTEM:

- The building shall be provided with wet riser with 150mm. internal diameter Pipe Line with provision of Hose Reel Hose at the Staircase landings / half landings. The system shall be so designed that shall be kept charged with Water all the time under pressure All other requirements shall conforming I.S. 3844 – 1989.
- Provision for Hose Reel units on swiveling drum in conjunction with Wet Riser cum Down Comer shall be made near each landing valves.
- Ring Main Hydrant with provision of adequate numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specifications.
- Two fire service inlet near the entry or exit of the premises facing to the abutting road shall have to be provided.

- All the assembly area along with annicilliary part thereof , parking area , Mercantile area floors shall have to be provided with Auto-sprinklers and Auto Detection system

#### FIRE PUMP:

- Provision of the Fire Pump shall have to be made to supply water at the rate-designed pressure and discharge into the Water based system, which shall be installed in the building. One such pump shall always be kept on stand-by be of diesel driven type.
- Provision of Jockey Pump/Stand by Pump shall also have to be 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 negative suction the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank.
- The Discharge Capacity of Jockey shall have to be 180LPM considering other IS specification.
- The Discharge Capacity of Main shall have to be 2280LPM considering other IS specification.
- The Discharge Capacity of Stand by shall have to be 2280LPM considering other IS specification.
- The Discharge Capacity of Diesel driven fire pump shall have to be 2850LPM considering other IS specification.

#### (G)ELECTRICAL INSTALLATION & DISTRIBUTION:

- 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.
- Electrical distribution system shall conform all the requirements as laid in I. S. 1646-1982.
- The electrical installation shall be adequately protected with automatic CO2/D.C.P.
- All electrical installation viz. Transformer Switch Gear L. T., H. T. rooms shall be protected with both auto detection and suppression systems as per suitability.

#### (H)Alternative Power Supply :

a.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 in case of normal power failure.

#### (I)DETECTION AND ALARM SYSTEM:

- Manually operated Electrical Fire Alarm system at each floor level with at least three numbers of break glass type call boxes fitted with Hooters along with public address system, at 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.

•Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.

•All floors shall have to be provided smoke detectors as per N.B.C. 2016 and I.S. Specification

(J)Public Address System :-

•Public address system linked between all floors and Control Room shall have to be established.

(K)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 and vulnerable locations of the premises shall be made in accordance with I.S. 2190-92.

•Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

•Floor numbers and directional sign of escape route shall be displayed prominently.

•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.

•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.

•A crew of trained Fireman under an experienced officer shall be maintained round the clock for safety of the building.

•Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of 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 drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Director  
West Bengal Fire & Emergency Services

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