



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

Memo No.: FSR/221862406300008936

Date : 25-04-2025

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

To :
SHEIKH NASIRUDDIN AND SHABNAM NASEER
041,15,BAL MUKUND MACKAR ROAD

Sub: Fire Safety Recommendation of a proposed construction of G+V Storied Commercial Building at Premises no. 15, Bal Mukund Makkar Road ,Kolkata-700007 ,Ward -41 , Borough-V , P.S.- Jorasanko. .

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Application Reference : KMC (CAF - 2024050022) received on 06-Dec-2024 regarding Fire Safety Recommendation of a proposed construction of G+V Storied Commercial Building at Premises no. 15, Bal Mukund Makkar Road ,Kolkata-700007 ,Ward -41 , Borough-V , P.S.- Jorasanko. .

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. The whole construction of the existing building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipality Body.
2. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
3. Arrangement shall have to be made for sealing all the vertical and horizontal ducts by the materials



of adequate fire resisting capacity.

B. OPEN SPACE AND APPROACH:

1. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting 45M.T.
2. The width and height of the access gate into the premises shall not be less than 4.5 mts. and 5.0 mts. respecting the abutting road.
3. Drive way should be free from any type of obstruction. No parking will be allowed on the drive way.
4. All the Passage way should be kept clear for free access.

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 4 hours.
2. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules.
3. FCDs shall be provided all stair case.

D. FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 100000 ltrs. and overhead water reservoir having capacity of 10000 ltrs. exclusively for fire-fighting purpose with replenishing arrangements @ 1000 ltrs/min. preferably from two different sources of water supply shall be provided. The water reservoirs 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.

E.WATER LAYOUT SYSTEM :

a. Ringmain Hydrant System:

i. 150 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 1 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 (upto date amendment).

ii. The system shall be so designed that shall always be kept charged with water under pressure and capable to discharge min. 2280 ltrs./min. at the pressure 7kg/sq.cm. at any point.

Wet Riser, Hose Reels & Sprinkler System :-

i. The building shall be provided with Wet Riser and Hose Reel unit with provision of outlets in each floor at the staircases landings/half landings as per suitable at the rate of one such unit of Wet Riser and Hose Reel per 1000sq.m. of floor area.

ii. Hose Reel Unit:- Provision of hose reel units on swiveling drum in conjunction with wet riser near each landing valves shall be made at each floor level of the building.

iii. Automatic Sprinkler System: Shall be incorporated in all floor area of the building and in the entire Club building area

iii. 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).

F. FIRE PUMP:



1. 2280 Ltrs. Per min. giving a pressure not less than 0.3N/m². The 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 2280 ltrs. Per minute from the fire pump.
2. A stand by pump of equal capacity shall be provided preferably be diesel driven.
3. A separate sprinkler pump of 2280 LPM shall be installed for the sprinkler system of the building.
4. Provision of Jockey pump have to be made to keep up the water based system under pressurized condition at all the time.
5. 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 over head tank.

G. Sprinkler Protection (IS 15105:2002): -

1. The automatic sprinkler system shall be provided covering the each floor area with car parking area of the building.
2. Alarm gong to be incorporated along with the sprinkler system.

H. First Aid Fire Fighting System:-

First Aid Fire fighting arrangement in the style of placing suitable type of portable fire extinguisher, Fire buckets etc. in all floors and vulnerable locations (e.g. pump house etc.) of the premises shall be made in accordance with IS 2190-1992.

I. ELECTRICAL INSTALLATION AND DISTRIBUTION:

1. The electrical installation including Transformers, Switch Gear, 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.
2. The vertical and horizontal electrical ducts shall be sealed at each floor level by fire resisting materials.
3. The electrical installation shall be adequately protected with CO₂/D.C.P. Fire Extinguishers conforming I.S. specification.
4. Arrangement for alternative power supply shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Deep Tube-Well Pump, Fire Alarm System etc. and also for illuminating the Staircase, Corridors, Lobbies etc. and other places of assembly of the building in case of normal power failure.

J. DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm System with at least one number 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.
2. Hooters will be sounded in such a manner so that an operation of Manual Call Point. Hooters will be sounded on the same floor and immediate



alternate floor.

3. Auto fire detection system with the help of Flame and smoke detector shall be installed in all places of below and preferable 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. specification.

K. GENERAL RECOMMENDATIONS:

1. Fire License shall have to be obtained for proposed storing and processing L.P.G. and other highly combustible articles.
2. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
3. Directional sign of escape route shall be displayed prominently.
4. The employees and security staffs shall be conversant with installed Fire Fighting Equipments of the building and to operate in the event of Fire and Testing.
5. 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.
6. A crew of trained Fireman 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. LPG Bank shall be constructed outside of the main building as per I.S. 6044.

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 cancelled.



Director

West Bengal Fire & Emergency Services