



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

Memo no.:FSR/0225186238700586

Date: 08-08-2023

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

To: SUBHA CHAKARBARTI AUTHORISED SIG OF SHRACHI BEEU PROJECTS LLP
003,34/1,KSHUDIRAM BOSE SARANI

Sub: Fire Safety Recommendation in respect of 1No. Proposed G+XII storied Residential Building attached with 1 no. G+IV storied Mercantile Retail Building predominantly under group Residential Building at Premises No.: 003,34/1,KSHUDIRAM BOSE SARANI, WARD NO.: 003, BOROUGH-1, PS: TALA, PO: BELGACHIA, UNDER KMC, KOLKATA-37.

Application Reference : KMC (CAF-2023010042) received on 10-06-2023 regarding the Fire Safety Recommendation in respect of 1No. Proposed G+XII storied Residential Building attached with 1 no. G+IV storied Mercantile Retail Building predominantly under group Residential Building at Premises No.: 003,34/1,KSHUDIRAM BOSE SARANI, WARD NO.: 003, BOROUGH-1, PS: TALA, PO: BELGACHIA, UNDER KMC, KOLKATA-37.

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 part:

- i)The whole construction shall be made as per the approved plan drawing.
- ii)The interior finish decoration of the building shall be made low flame spread materials conforming IS specification.
- iii)The roads and Side Open Spaces are to be minimum 45 MT withstand capacity.

B. Staircases:

- 1.Staircases shall not be obstructed anywhere by any means and negotiating on every floor.
- 2.Provision of natural ventilation shall be made from every half landing of both staircases.
- 3.FCDs shall be installed as per the approved plan.

C. Lifts :

- 1.Collapsible gates shall not be permitted with the lift cars & shall have solid doors.
- 2.At least one lift on each building shall be configured as "Fire Lift" integrated with Fireman switch and detection alarm

panel.

E. Service ducts/ shaft :

Service ducts & shaft shall be enclosed by walls of 2 hrs. & door 1 hr fire rating. All such ducts shall be properly sealed & fire stopped .at all floor level, vent opening at the top of the service ducts shall also to be provided .

F. Electricity :

1.The electric distribution cable/ wiring shall be laid in separate duct .The duct shall be sealed at every floor with non combustible materials.

2.Telephone lines, water mains, gas pipes or any other service lines shall not be laid out in the duct for electrical cables /wires.

3.The electrical installation including Transformer, switch gear, main & meter of the premises shall be provided in separate enclosures apart from main building in accordance with IS 1946:1982.

4.All electrical installations shall be protected with MVWS projector system (HVWSP system for oil cooled transformer) or inert gas based auto suppression system.

5.Separate circuit for fire fighting, fire lift, stairs case & corridor lighting system shall be provided.

G. Alternative power backup system :

A stand by diesel generator of suitable capacity shall be installed to supply powers to staircases & corridor lighting , fire pumps etc .

J.Alarm & Detection system :

1.M.C.P shall be installed near staircases, escape route and at all strategic locations of all floors.

2.Sufficient smoke detectors shall be installed covering covering basement car parking and all floors of Mercantile building.

J. Fire Fighting (Protection) :

i)Fire fighting water:

The building shall be provided with 2,00,000 liters capacity of UGWR and 10,000 ltrs. Overhead water reservoir (as shown in the plan) with replenishing arrangement @ 1000 liters per minutes.

ii)Small gears: IS:903-1993:-

Hose box, 15 meter length permoline delivery hose, gunmetal short branch of half inch dia. one set at each pillar hydrants should be installed.

iv)Internal Hydrant/ Down comer System IS-3844:1989:-

The building shall be provided with Wet Riser of 100 mm internal diameter pipeline with provision of landing valves at the staircase landings/ half landings. The system shall be so designed that kept charged with water all the time under pressure and capable of discharge minimum 900 ltrs./ min. at the top most furthest outlet. The running pressure shall not be less than 3.5 kgs./ Sq.mtr.. All other requirement shall conform I.S.

3844-1989.

v)Hose reel system(IS:844-1985):

The building should be equipped with Hose Reel Hose system as per IS code of practice. The internal dia. of the said hose reel shall be 19 mm to 32 mm and the discharge capacity not less than 22.5 LPM. While the length of the hose reel not more than 36.5 meters. The distance of such installation should be in such a way that no part of floor is more than 6 meters distance from a nozzle when fully extended.

vi)Sprinkler system (15105:2002):

Automatic sprinkler suppression system shall be installed covering basement car parking and all floors of Mercantile building. Alarm gong shall be integrated with sprinkler suppression system.

vi)Pumps for fire fighting installation IS-12469:1988:-

One no. jockey of 180 LPM, One no. main and one no. stand by fire pump (preferably diesel driven) of 2280 LPM shall be installed with DG back up in proper sequence with auto start facility.

K)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 of the premises shall be made in accordance with IS 2190-1992.

L)Smoke Management system:

The entire basement shall be installed with automatic smoke venting system by incorporating jet fans and electrical/ mechanical smoke extractors of required capacity to achieve 10 ACPH in case of emergency.

M. General Recommendations :

- 1.Telephone nos. of all emergency services, fire notice / fire order shall be pasted at all strategic locations on each floor of the building.
- 2.Floor number & directional sign towards the routes of escape during emergency shall be provided at all conspicuous places on each floor.
- 3.All Occupants & security staff shall be conversant with the installed fire fighting system & equipments & to operate them efficiently in case of any fire emergency.
- 4.Mock Fire & Evacuation drill shall be conducted at least twice in a year with the participation of all concerned.
- 5.Arrangement shall be made for checking, testing & proper maintenance of all inbuilt fire & life safety system & equipments at recommended periodical intervals by competent agency.
- 6.Good housekeeping to eliminate fire hazards both inside & outside the building shall be strictly maintained. Under no

circumstances the corridors, routes of escape, lobbies of staircases and landings be blocked by waste / refused materials in order to ensure easy & smooth evacuation of the occupants as well as free access / movement of fire fighting team during fire emergency.

7. Lightening arrestor shall be installed on the roof top to protect the building from thunder crash.

This shall be treated 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 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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