



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

Memo no.:FSR/0125186231100939

Date: 26-09-2023

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

To: Mr. Debabrata Biswas, partner of B.B. Enterprise
21/1/B, Sumangalapuri Old Culcutta Road, Barrackpore, PIN - 700123

Sub: Fire Safety Recommendation for a proposed construction of G+IV storied building comprising of 4 nos. Blocks under group of Residential Building in the name & style of "B.B Enterprise", at mouza – Mohanpur, J.L No- 08, L.R Dag No – 793,794, 795, 796, & 797, L.R Khatian No – 64/1, 65/1, 2117, 4264, 4063, 4080, 4043, 4338, P.S – Titagarh, North 24 Parganas, West Bengal, India, Pin code – 700121.

This is in reference to your application no. 0125186231100939 dated 30-08-2023 regarding the Fire Safety Recommendation for a proposed construction of G+IV storied building comprising of 4 nos. Blocks under group of Residential Building in the name & style of "B.B Enterprise", at mouza – Mohanpur, J.L No- 08, L.R Dag No – 793,794, 795, 796, & 797, L.R Khatian No – 64/1, 65/1, 2117, 4264, 4063, 4080, 4043, 4338, P.S – Titagarh, North 24 Parganas, West Bengal, India, Pin code – 700121.

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:

CONSTRUCTION:-

- 1.Materials for rapid flame spread categories including untreated wood fiber board etc. shall be not use.
- 2.The doors and windows preferably shall be made of metal.
- 3.The interior finish decoration of the building shall be made with the materials with low flame spread and low smoke and toxic gas generating categories conforming I.S. Specification.
- 4.Arrangement shall have made for sealing all the vertical service ducts by the materials of adequate Fire resisting capacity.
- 5.Fire rating test certificate of all interior finish decoration should be submitted to the bangle building of all blocks before taking occupancy.
- 6.Service Ducts and shafts should be enclosed by walls of 2 hours and doors of one-hour fire rating.
7. All such ducts shall be properly sealed and fire stopped at all floor level.

The authenticity of this document can be verified by accessing the URL: adistinct.wb.gov.in and then clicking on the 'Verification of Digitally Signed Document' link and keying in the Unique Number : 0125186231100939.

Page : 1

B.OPEN SPACE & APPROACH: -

- 1.The open space surrounding the building of all blocks shall be kept clear open to sky and shall conform the relevant building rules as well as permit the easy accessibility and maneuverability of the Fire appliances with turning facility.
- 2.The approach road and roads surrounding the building shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
- 3.The width and height of the entry gates to the premises shall not be less than 4.5m and 5m respectively.
- 4.Driveway should be free of any type obstruction.
- 5.No parking will be allowed on the Drive Way.
- 6.Driveway shall have to provide all around the building in all blocks as per norms.

C.STAIRCASE:-

- 1.The staircase of the building of all blocks shall preferable be made of brick / R.C.C. type having Fire resisting capacity respectively.
- 2.The staircases shall have permanent vents at the top equal to 5% of the cross-sectional area of the staircases enclosures and preferable open able glasses at each floor level equal to 15% of the said cross section are may be provided in the external wall of the building.
- 3.All the staircase of the building shall be negotiable to each other in each floor without entering into any room and shall be extended up to respective terrace.
- 4.The roof of the stair wall shall be 1M above the surrounding roof area.
- 5.The width of the staircases and corridors and travel distance of different categories of occupancies shall have to conform the relevant building rules.
- 6.Considering the staircases are only means of evacuation, emergency lighting arrangement directional, exit, sign etc. shall be made conforming the relevant I.S. Code in this regard.

D.FIRE FIGHTING WATER: -

- 1.Water exclusively for Fire Fighting (Underground Water Reservoir), shall be ensure minimum 1,00,000 lts. All the time.
- 1.O.H.W.R exclusively for firefighting purpose 10,000 ltr shall have to provide all the time.
- 2.The Fire water reservoir shall be having overflow arrangement with the domestic reservoir to avert stagnancy of water.
- 3.Provision of necessary manhole shall be made on the top of the reservoir as per specification.
- 4.Provision of replenishment at the rate of at least 1000lts./ min. from two separate sources of water supplies shall be made.
- 5.The deep tube wells for the replenishment of the reservoir shall be incorporated with the auto starting facility with the actuation of auto detection and suppression arrangement of the premises and shall also be connected with dual power supply units.

E.WATER LAYOUT SYSTEM:

- 1.Ring Main 150 mm internal diameter pipe line with provision of adequate numbers of Yard Hydrants after every 30 mtr distance all around the project with necessary accessories (hose box having minimum 2nos. delivery hose, brunch etc)

surrounding all around the building near the all blocks and provision of at least two numbers fire service inlet shall be installed surrounding the premises in accordance with relevant I.S. specifications.

2.Fire service inlet shall have to be installed as per I.S. specification.

3.The system shall be so designed that shall be kept charged with water all the time under pressure and capable to discharge 1620 lts/min and running pressure shall not be less than 3.5Kgs/Sq.cm at any point.

4.All other requirements shall be conform I.S. 3844 – 1989.

F.Wet Riser & Hose Reels System :-

i.The building shall be provided with Wet Riser 100 mm Dia and Hose Reel Hose 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.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:-

1.1620 Lts. Per min. giving a pressure not less than 0.3N/m².

2.The provision of Main pump to keep up water under pressure will be positive type suction and delivery size not less than 15 cm. dia.

3.A set ball valve to supply the tank with at least 1620 ltrs. Per minute from the fire pump.

4.A stand by pump of equal capacity shall be provided preferably be diesel driven.

5. Provision of Jockey pump have to be made to keep up the water-based system under pressurized condition at all the time.

6.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 overhead tank.

G.DETECTION AND ALARM SYSTEM:-

1.Manually operated Electrical Fire Alarm system with at sufficient 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.

2.The Control Room shall be located at the entrance of Ground Floor of the occupancy, other requirements of the system shall be made conforming I.S. 2189 – 1988.

3.Smoke detector as per suitability shall have to be installed in common area as per I.S. Specification.

H.ELECTRICAL DISTRIBUTION SYSTEM: -

1.Electrical distribution system of all the building shall be made in the form of concealed wiring or in heavy gauge M.S. conducted continuously bonded to earth cables shall be I.S. marked and preferably be of F.R.L.S. categories.

2.Electrical distribution System shall conform all the requirements laid down in I.S. 1646-1982.

3.For every 230V wiring above false ceiling 660 grade insulated cable shall be used Transformer Switch Gear H.T.,L.T.

and other electrical rooms shall be at the ground floor level the other electric rooms shall be at least 4hrs. Fire resisting capacity adequate ventilation arrangement shall have to be made in all the rooms. Dry and explosion proof type transformer shall be installed.

4.All electrical installation viz. Transformers, Switch Gears, L.T., HT rooms shall be protected with both auto detection and suppression systems as per suitability.

I.Public Address System (If Required) :-

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

1.All the installation shall also satisfy the I.S. Specification 2189 as amended and the code of practice as laid down in N.B.C. pt. IV.

J.OTHER PROTECTION MEASURES:-

Close circuit T.V. shall have to be provided in the building.

K.FIRST AID FIRE FIGHTING SYSTEM :-

1.First Aid Firefighting arrangement in the style of placing suitable type of portable Fire Extinguishers- I.S.I. mark, Fire Buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190-1992.

2.Special rescue equipment like Smoke Hood, self-contained B.A. set portable lights at least two pairs (4sets) shall be made available in the main fire Control Room/ Fire Kiosk of the premises.

L. Alternative power supply:-

Arrangement 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 illuminating the staircase, corridors etc. and other places of assembly of the building in case of normal failure.

M.GENERAL RECOMMENDATIONS :-

1.Floor numbers and directional sign, showing the nearest exit, Fire Points etc. shall have photo luminescent signals at each floor of all blocks of building including shall be made available conforming the relevant I.S. Specification.

2.Provision of emergency illuminating exit shall be made at all floor levels of all blocks of building conforming the I.S. Specification.

3.Fire license have to be obtained for storing and processing with highly combustible articles.

4.If diesel oil is stored beyond the specified quantity license shall be accorded from the appropriate authority.

5.The occupants, employees and security staff shall be conversant with installed First aid Fire Fighting equipment of the building and to operate in the event of Fire and Testing.

6.Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipment and means of escapes installed in the building to keep them in perfectly good working conditions at all times by authorized competent agency in this regard.

7.Practice and evacuation drill shall be arranged at regular interval of time involving all the occupants and security staff shall be recorded.

8.Trained and experienced Fire fighting staff under the qualified and experienced fire officer shall be maintained round the clock.

9.Fire Kiosk shall have to install as per suitability.

10. This certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Lift and Fire Safety arrangements and installation of the building.

This shall be tested 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 favor 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.

Signature Not Verified
Digitally signed by AGHIJIT
PANDEY
Date: 2023.09.26 15:12:28 IST

DIRECTOR
West Bengal Fire & Emergency Services