



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

Memo no.:FSR/0125186238701135

Date: 21-12-2023

From:

Divisional Fire Officer  
Fire Prevention Wing,  
West Bengal Fire & Emergency Services

To: Piyush Builders Private Limited  
61B/1, Hazra Road, Kolkata-700019

Sub: Fire Safety Recommendation in respect of existing G+5 (five) storied Under Group of Residential Building at premises no. – 61B/1, Hazra Road, Ward No.- 086, under Borough.- VIII, P.S.- Gariahat, Kolkata.- 700019.

This is in reference to your application no. 0125186238701135 dated 17-11-2023 regarding the Fire Safety Recommendation in respect of existing G+5 (five) storied Under Group of Residential Building at premises no. – 61B/1, Hazra Road, Ward No.- 086, under Borough.- VIII, P.S.- Gariahat, Kolkata.- 700019.

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 as well as proposed shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.
- The floor area exceeds 750 m<sup>2</sup> 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.
- Roof is used as a refuge area in case of an emergency and it should be clear open to sky for all time. No Permanent or temporary structure will be allowed on the roof.
- Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire

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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 as per shown/marked in the plan drawing 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.

**(D) LIFT :-**

•The walls of the lift enclosure shall be at least two hours Fire Resisting type. Collapsible gate shall not be permitted.

**(E) FIRE FIGHTING WATER :**

•Under Ground Water Reservoir of 58800 Ltrs (shown/Marked) O.H.W.R.- 10500 ltrs (shown/Marked) capacity exclusively for firefighting purpose as shown/marked in the plan drawing 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.

•Separate piping system from Underground water reservoir for fire to Over Head Water reservoir with required pump for replenishing water at the rate of at least 900 LPM shall have to be provided.

**(F) WATER LAYOUT SYSTEM & PUMP :**

•The building shall be provided with down comer with 100mm. Internal diameter Pipe Line with provision of landing valves at the staircase landing/half landings at the rate of one such riser for 1000 sqm. Of floor area.

•The system shall be so designed that shall be kept charged with water all the time under pressure capable to discharge 900 LPM. At the ground floor level outlet and minimum 900 Ltrs/min. at the top most outlet. In both case the running

pressure shall not be less than 3.5 Kgs/cm<sup>2</sup>. All other requirements shall conform of I.S. 3844- 1989.

- Provision of stand by pump same capacity of main pump shall have to be provided preferably diesel driven type.
- Provision of alternative power supply to the pumps shall have to be provided.
- 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 down comer shall be made near each lading valves.
- Provision of yard hydrant at designated distance as per Specification shall have to be provided.
- Ground floor & 1st floor area of the building respectively shall have to be provided with Alarming and detection system.
- One fire service inlet near the entry or exit of the premises facing to the abutting road shall have to be provided.
- Ground floor & 1st floor area of the building shall have to be fully sprinkled.

#### (G) FIRE PUMP:

Provision of the Fire Pump (Booster AND STAND BY) shall have to be made to supply water at the rate-designed pressure and discharge water 900 LPM into the Water based system, which shall be installed in the building.

Provision of alternative power supply to the pumps shall have to be provided.

#### (H) 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 CO<sub>2</sub>/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.

#### (I) 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, 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.

#### (J) 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.
- Addressable analogue manual call boxes incorporating with sounders shall be installed in all floors area of the building in such manner that maximum travel distance shall not be more than 22.05 Mtr in order to reach any of the call point.
- 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.

#### (K) FIRST AID 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.

(L) GENERAL RECOMMENDATIONS:

- Disposable type B. A. Musk to be kept always for emergency fire situation.
- 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.
- Each year a certificate is 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 drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Signature Not Verified

Digitally Signed:  
Name: SUCAPTA BIT  
Date: 21-Dec-2023 12:45:58  
Reason: Approved  
Location: West Bengal

Divisional Fire Officer South Kolkata Division  
West Bengal Fire & Emergency Services