



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

Memo no.:FSR/0225186231200032

Date: 20-02-2023

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

**To: MR ADITYA DALMIA**  
**126,138,SARSUNA MAIN ROAD**

**Sub: Fire Safety Recommendation for proposed construction of G+VI (Block A) and G+IV (Block B) storied, under group of Residential Building, at premises no-138, Sorsuna Main Road, Ward no-128, Borough-XVI, Kolkata-700061**

Application Reference : KMC (CAF-2022160608) received on 17-01-2023 regarding the Fire Safety Recommendation for proposed construction of G+VI (Block A) and G+IV (Block B) storied, under group of Residential Building, at premises no-138, Sorsuna Main Road, Ward no-128, Borough-XVI, Kolkata-700061

**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:**

- 1.The whole construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body (Kolkata Municipal Corporation).
- 2.The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
- 3.Provision of ventilation at the crown of the central core-duct of the building shall be provided.
- 4.Roof is used as a refugee 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.
- 5.Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire

resisting capacity.

**B.OPEN SPACE & APPROACH:**

1.The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.

2.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:**

1.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.

2.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.

3.The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall conform the relevant building rules with up to date amendments.

4.All the staircases shall be extended up to terrace of the building and shall be negotiable to each floor without entering any occupied area.

**D. LIFT:**

1.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:**

Underground water reservoir having water capacity of 50000 ltrs Overhead water reservoir of 10000 ltrs. Capacity exclusively for Fire Fighting purpose with replenishing arrangements @1000 ltrs/min. preferably from two different sources of water shall be provided. The water reservoirs shall have overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water. The water reservoirs shall be kept full at all time.

**F.HYDRANT SYSTEM :**

1.The building shall be provided with down comer of 100mm. Internal diameter pipe Line with provision of landing valves at the staircase landings/half landings at the rate of one such riser for 1000 sq .m. of floor area. The system shall be so designed that shall be kept charged with water all the time under pressure and capable to discharge 900 L./min. at the ground floor level outlet and 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.

2.Provision of stand by pump same capacity of main pump shall have to be provided preferably diesel driven type.

3.Provision of standard Hose Reel Hose in conjunction with landing valve supplied from the overhead reservoir through

Booster Pump of 900 LPM shall have to be made in the floors of the building satisfy the code of I.S. 3844-1989.

4.Yard Hydrant with provision of one number with one number Fire Service inlet shall be installed the building in accordance with relevant I.S. specification.

5.Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R.

#### G.ELECTRICAL INSTALLATION & DISTRIBUTION:

1.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 specifications 1946 - 1982.

2.The vertical ducts shall be sealed at alternative floor level.

3.The electrical installation shall be adequately protected with CO2 / D.C.P Fire Extinguishers.

4.All electrical Sub-station shall be on the Ground Floor level and structurally to be separated from the main enclosure with the provision of entry from outside open air.

##### 5. Alternative Power Supply:

Arrangements shall have to 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.

#### H.Detection and Alarm (Intelligence Analogue System)

1.Addressable analogue manual call boxes incorporating with sounders should be installed in all floors area of the building in such a manner that maximum travel distance shall not be more than 22.05 M in order to reach any of the call point.

2.Detection system in form of smoke detector shall have to be installed in office area, community hall.

#### I.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.

#### J.GENERAL RECOMMENDATIONS:

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

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

3.The employees and the security staff shall be conversant with installed Fire Fighting equipment's of the building and to operate in the event of Fire and Testing.

4.Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire safety installation and equipment's installed in the building to keep them in perfectly good working conditions at all times.

5.To eliminate risk of Fire Hazards, Good House Keeping both for insides and outside of the building shall be strictly maintained.

6. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.

7. 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 Recommendation, the Director General, West Bengal Fire and 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 installations of the building.

N.B. : Any deviation and changes the nature of use of the building in respect to 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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