



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

Memo no.: FSR/0225186218701017

Date: 24-12-2021

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

To: UJJAL BOSE  
096,176/14/165,RAIPUR ROAD

Sub: Fire Safety Recommendation of a G+VI storied under group Residential building at the premises No. - 176/14/165, Raipur Road, P.S. - Jadavpur, Kolkata - 700092

Application Reference : KMC (CAF-2021100157) received on 24-11-2021 regarding the Fire Safety Recommendation of a G+VI storied under group Residential building at the premises No. - 176/14/165, Raipur Road, P.S. - Jadavpur, Kolkata - 700092

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. 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.
2. The interior finish decoration of the building shall be made low flame spread materials Conforming I.S. specifications.
3. Provision of ventilation at the crown of the central core-duct of the building shall be provide.
4. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resistance capacity.

**OPEN SPACE & APPROACH :**

1. The open space surrounding the building shall conform the relevant building rules as well as Permit the accessibility and maneuverability of Fire appliance with turning facility.
2. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.

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Page 1

3. The width of the height of the access gates into the premises shall not be less than 4.5 M. & 5 M. respecting abutting the road.

#### STAIRCASE :

1. The staircase of the building shall be enclosed type. Entire construction shall be made of Bricks/ R.C.C. type having Fire resistance capacity not less than 4 hours.
2. The staircase of the building shall have permanent vents at the top & openable sashes at Each floor level in the external wall of the building.
3. The width of the staircase, Corridors & the exit doors shall conforming the relevant building rules with up-to-date amendment.
4. All the staircase shall be extended up to terrace of the building & shall be negotiable to each floor.
5. Fire & Smoke doors at all the entrances of the staircase enclosure as marked in plan drawing shall be provided. The F.C.D. shall be of at least one hour Fire resisting wire glass window fitted with self-closing type openable in the direction of escape.

#### FIRE FIGHTING WATER :

water reservoir having water capacity of 25000 ltrs. & overhead water reservoir water capacity of 15000 ltrs. exclusively used for Fire fighting purpose with replenishing arrangement @ 1000 Lts./ min. preferably from two different sources of water supply shall be provided. The water reservoir 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.

#### HYDRANT SYSTEM

1. The building shall be provided with Down comer connected to a terrace tank through the Terrace pump at 900 L.P.M capacity & providing one 100 mm. 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 & one stand by pump at same capacity shall also be installed in both cases the running pressure shall not be less than 3.5 Kgs./Cm<sup>2</sup>. All other requirements shall conform I.S 3844 – 1989.
2. Yard hydrant with provision of one number Hydrant valve with one number Fire Service Inlet shall be installed the building in accordance with relevant I.S. specification.
3. Provision of standard Hose reel hose in conjunction with Down comer shall be made at each floor level. Conforming the I.S. Specification.

#### 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. specification 1946-1982.

2. The vertical & horizontal electrical ducts shall be sealed at each floor level by fire resisting material.
3. The electrical installation shall be adequately protected with CO2/D.C.P. Extinguishers
4. The cable of Transformer shall be paint with Fire retardant paint.
5. Alternative Power System :

Arrangements shall have to be 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. & other places of assembly of the building in case of normal power failure.

#### DETECTION, ALARM SYSTEM :

1. Manually operated Electrical Fire Alarm system with at least one number of break glass type call box fitted with Hooters at the staircase lobby at all floors of the building shall be made.

#### PUBLIC ADDRESS SYSTEM :

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

#### FIRST AID FIRE FIGHTING SYSTEM :

First Aid Fire fighting system arrangement in the style of placing suitable type of portable Fire Extinguishers. in all floors of the buildings shall be made in accordance with I.S. 2190- 1992.

#### GENERAL RECOMMENDATION :

1. Fire Licence shall have to be obtained for storing & processing with L.P.G & 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. Floor numbers and directional sign of escape route shall be displayed prominently.
4. The residents and security staff 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 time.
6. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
7. Each year a certificate is to be obtained from Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Life & Fire Safety arrangements & installation of the building.

On compliance of all the above Fire & 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 & performance of safety aspects of installation of the building.

N.B. : Any deviation & changes the nature 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.

Validity unknown  
Digitally signed by ABHIJIT  
PANDEY  
Date: 2021.12.15 15:44:13 IST

Director  
West Bengal Fire & Emergency Services