

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIVISIONAL FIRE OFFICER  
WEST BENGAL FIRE & EMERGENCY SERVICES  
13D Mirza Ghalib Street, Kolkata 700016**

Memo No : IND/WB/FES/20182019/41327

DATE: 04/07/2019

**From :**

**The Divisional Fire Officer  
Fire Prevention Wing,  
West Bengal Fire & Emergency Services.**

**To :**

**Monoranjan Bera  
12/1A, Dharmatala Road.  
Gariahat F.S., Kasba,  
Kolkata - 700042 .**

**Sub :Fire Safety Recommendation for 3 Nos. proposed construction of G + 4 storied building in a complex under group Residential at the premises no.- 12/1A, Dharmatala Road., Kasba, Kolkata - 700042**

This is in reference to your Application No. IND/WB/FES/20182019/41327, dated 04/07/2019, regarding the Fire Safety Measure for 3 Nos. proposed construction of G + 4 storied building in a complex under group Residential at the premises no.- 12/1A, Dharmatala Road., Kasba, Kolkata - 700042.

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 favour of the aforesaid building subject to the compliance of the following fire safety measure.

**Recommendation:**

**1. 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.

3. The width of the height of the access gates into the premises shall not be less than 4.5-5 M.

respecting abutting the road.

#### STAIRCASE :

1. The staircase of the building shall be enclose 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 & open able 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.

#### 2. LIFT :

1. The walls of the lift enclosures shall be at least two hours Fire resisting type. Collapsible gate shall

Not be permitted.

#### 3. FIRE FIGHTING WATER ;



Underground water reservoir having water capacity of 60000 ltrs. & Over head tank having water capacity

5000 ltrs. exclusively used for Fire fighting purpose at each Block 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 Wet Riser of 100 mm. Internal diameter Pipe Line with

Provision of landing valves at the staircase landing/half landings at the rate of 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 & capable to discharge 2280 Lts./min. at the ground floor level outlet

& minimum 900 Lts./min. at the top most outlet. In both cases the running pressure shall not be

less than 3.5 Kgs/sq.cm. All other requirements shall conforming I.S. 3844-1989.

2. Provision of Hose Reel in conjunction with Wet Riser shall be made at each floor. Conforming

the relevant I.S. Specification.

3. Yard Hydrant/Ring Main Hydrant with provision of adequate numbers of Hydrant valve shall be installed

Surrounding the building in accordance with relevant I.S. Specification.

4. FIRE PUMP :

Provision of the fire pump shall have to be made to supply water at the rate- designed pressure

and discharge into the water based system, which shall be installed in the building. One such

pump shall always be kept on stand-by preferably be of diesel driven type.

Provision of Jockey Pump shall also have to be made to keep the water based system under

Pressurized condition at all the time. All the pumps shall be incorporated both manual and auto

Starting facilities. The suction of the pumps shall preferably of positive type or in case of negative

Suction the system shall be wet riser-cum-down comer with suitable terrace pump with

Overhead tank.

#### 5. 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.

#### 6. 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.

#### 7. DETECTION & ALARM SYSTEM

1. Manually operated Electrical Fire Alarm system with at least one number of break glass

type call boxes fitted with Hotter at each floor of all buildings & connection with audio visual panel board

shall be made in control room. The control room shall be located at the security room of the complex. Other

requirements of the system shall be made conforming I.S.-2189-1988.

2. Auto fire detection system with the help of smoke detector shall be installed in all places

of below and preferably above false ceiling at the community hall . The system shall be made in places of

rooms where valuable articles have been kept. The other requirement of the system shall be made in



accordance with I.S. 2189-1988.

3. Hotter will be sounded in such a manner so that an operation of a detector or Manual call point

Hotter will be sounded on the same floor and immediate alternate floor.

8. PUBLIC ADDRESS SYSTEM :

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

9. 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. A crew of trained Firemen under the experienced officer shall be maintained round the clock for safety of the building.

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

8. 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.

**Divisional Fire Officer  
West Bengal Fire & Emergency Services**

Signature Not Verified

Digitally signed by RATAN  
KUMAR HALDER

Date: 2019.07.04 18:42:00 IST