

**GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIRECTOR GENERAL
WEST BENGAL FIRE & EMERGENCY SERVICES
13-D Mirza Ghalib Street, Kolkata- 700 016**

Memo No : IND/WB/FES/20192020/73538

DATE: 25/02/2020

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

To :
MOHAMMED SAMI UDDIN
57, ELLIOT ROAD
Fire Float (Writers' Buildings), Park Street,
Kolkata - 700016 .

Sub :Fire Safety Recommendation for a proposed construction of G + XII storied under group Residential Building at the premises no. - 57, Elliot Road, Borough: VI, Ward No. : 61, P.S.: Park Street, Kolkata - 700016

This is in reference to your Application No. IND/WB/FES/20192020/73538, dated 25/02/2020, regarding the Fire Safety Measure for a proposed construction of G + XII storied under group Residential Building at the premises no. - 57, Elliot Road, Borough: VI, Ward No. : 61, P.S.: Park Street, Kolkata - 700016.

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.
A. CONSTRUCTION
1. The whole construction and lay out of proposed residential building shall remain same as per approved plan and shall never be altered with prior approval of this Department and

strictly follow local Panchayet / Municipal Rules.

2. The floor area exceeds 750 M shall be suitably compartmented by separation walls up to ceiling level having at least two hours fire resisting capacity.
3. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specification.
4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.

B. 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 appliances with turning facility.
2. The approach roads shall be sufficiently strong to withstand the load of fire engine weighting up to 45 M.T.

C. STAIRCASE:

1. The staircase of the building shall be enclosed type. Entire construction shall be made of bricks/R.C.C. type having fire resisting capacity not less than 4 hrs.
2. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules
3. All the staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.
4. Fire and smoked doors at the entrances of all the staircases enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour fire resisting wire glass window fitted with self-closing type open able in the direction of escape.

D. FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 100000 Ltrs exclusively for firefighting purpose with replenishing arrangements @ 1000lts. /min. preferably from two different sources of water supply shall be provided. The fire 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.

E. HYDRANT SYSTEM:

1. The building shall be provided with 150mm internal diameter pipe line with provision of Yard Hydrant/ Ring Main Hydrant with adequate numbers shall be installed surrounding the residential building in accordance with relevant I.S. specification. The system shall be so

designed a that shall be kept charged with Water all the time under pressure and capable to discharge 2280 lts /min at the ground floor level outlet and minimum 900 lts/min at the top most outlet in both case the running pressure shall not be less than 3.5kgs/ sq.cm . All other requirements shall conform I.S. 3844-1989.

2.Provision for Hose reel in conjunction with Wet Riser shall be made at all floor level conforming the relevant I.S. Specifications.

F. REFUGE AREA :

1.Refuge area is not less than 15sqm. Shall be provided on the external wall with cantilever projection or other suitable means at 20.037 M level of Residential Block as shown/ marked in the plan.

2.The refuge area shall be of Fire Resisting construction and protected with self closing F.C.D. at the entrance from the corridor or the staircase lobbies.

3.Each refuge area shall be ventilated and provided with sprinklers, first aid box, fire extinguishers, public address speaker, fire man talk back, and adequate emergency lighting as well as drinking water facility.

4.The position of Refuge areas shall be such that they are negotiable by the fire service ladder from the ground as marked in the plan.

G. FIRE PUMP:

1.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.

2.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 with both manual and auto starting facilities. The suction of pumps shall preferably of positive type or in case of negative section the system shall be Wet Riser-cum-Down comer with suitable terrace pump with overhead tank.

H. 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 electrical installation shall be adequately protected with CO2/D.C.P. Extinguisher or modular.

3. Alternative Power Supply:

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, Fire Lift etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

I. DETECTION, ALARM AND SUPPRESSION SYSTEM:

1. Manually operated Electrical Fire Alarm system with adequate numbers of break glass type call boxes fitted with Hooter at each floor connecting with control panel at 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.

2. Auto fire detection system with the help of heat or smoke detectors shall be installed in all places of below and above false ceiling of the building preferably on the ground floor level. The system shall also be made in all places where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988.

3. The Suppressions system shall be made with fire extinguishers as per suitability particularly inside the building and in room of irreplaceable articles.

4. Hooter will be sounded in such a manner so that an operation of a detector or Manual Call Point. Hooters will sounder on the same floor and immediate alternate floor.

5. Public Address System:

Public address system linked between all floors and control room shall have to be established.

J. FIRST AID FIRE FIGHTING SYSTEM

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

K. GENERAL RECOMMENDATION:

1. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and 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. Directional sign of escape route shall be displayed prominently.

4. The employees 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 maintenance of all the Fire Safety installation and equipments installed in the building to keep them in perfectly good working conditions at all times.

6. A crew of trained Fireman 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.

Fire Safety Certificate shall be obtained on compliance of all 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 and Life safety recommendations will be treated as cancelled.

Director
West Bengal Fire & Emergency Services

Signature Not Verified
Digitally signed by TARUN
KUMAR SINHA
Date: 2020.02.28 15:27:02 IST