

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/20172018/637

DATE: 24/01/2018

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

To :
Firdous Kalim (C/A of Hatim & Co.)
90, MUZAFFAR AHMED STREET
Head Quarter F.S., Park Street,
Kolkata - 700016 .

Sub : Fire Safety Recommendation for null construction of: G + 7 storied building
under group Residential at the Premises No.- 90, MUZAFFAR AHMED STREET

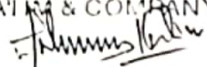
This is in reference to your Application No. IND/WB/FES/20172018/637, dated 24/01/2018,
regarding the Fire Safety Measure for null construction of G + 7 storied building under group
Residential at the premises no.- 90, MUZAFFAR AHMED STREET, Park Street,
Kolkata - 700016.

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. CONSTRUCTION :

- 1.The whole proposed construction of the building shall be carried out as per approved plan
drawings conforming the relevant building rules of Kolkata Municipal Corporation.
- 2.The floor area exceeds 750 Sq.Mts. shall be suitably compartmented by separation walls
up to ceiling level having at least two hours Fire resisting capacity.

HATIM & COMPANY

FIRDIOUS KALIM
Consultant Engineer

The interior finish decoration of the building shall be made with low flame spread materials conforming I.S. specifications.

4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.

5. Arrangements shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate Fire resisting capacity & the doors of service ducts / shafts of 2 hr. fire rating.

2. OPEN SPACE & APPROACH :

1. The open space surrounding the building shall be kept clear open to sky and shall conform the relevant building rules as well as permit the easy accessibility and manoeuvrability of Fire appliances with turning facility.

2. The approach roads & internal drive ways shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.

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

3. 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 hours.

2. The staircase of the building shall have permanent vents at the top and openable sashes at each floor level in the external wall of the building.

3. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules with up to date amendment.

4. All the staircases shall be extended up to the terrace of the building and shall be negotiable to each other without entering into any room.

5. Fire and smoke doors at the entrances of all the staircase 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 openable in the direction of escape.

4. LIFT :

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

2. Lift shall be designed for Fire Lift. The word "FIRE LIFT" shall conspicuously written at ground floor.

3. Alternate source of power supply shall be provided for all lifts through manually operated change over switch.

5. FIRE FIGHTING WATER :

1. Underground Water Reservoir exclusively for Fire Fighting operation minimum 50,000 lts.

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FIRE FIGHTING
CONSTRUCTION



capacity to be kept full at all time.

2. The Fire water reservoir shall have overflow arrangement with the domestic reservoir to avert stagnancy of water.

3. Provision of necessary manhole shall be made on the top of the reservoir as per specification.

4. Provision of replenishment at the rate of at least 1000 lts./min. from two separate source of water supplies shall be made.

5. Provision of placing Fire Appliances on the underground water reservoir to be made to draw water in case of emergency.

6. WATER LAYOUT SYSTEM :

a. Ring Main Hydrant System :

1. 150 mm dia Ring Main water layout arrangement along with 3 way Fire Service inlet covering the entire premises with provision of pillar type yard hydrants with door hose boxes, containing 2 lengths of 63mm delivery hose and short branch pipe shall be provided at all the strategic location surrounding the building to be installed conforming I. S. 3844 – 1989 (up to date amendment).

2. The system shall be so designed that shall always be kept charged with water under pressure and capable to discharge min. 1620 lts. / min. at the pressure 3.5kg / sq.cm. at any point.

7.

b. Wet Riser & Hose Reels System :

1. The building shall be provided with 150 mm dia Wet Riser and Hose boxes provision of outlets in each floor at the staircases landings / half landings as per suitable at the rate of one such Wet Riser.

2. Provision of hose reel units on swiveling drum in conjunction with wet riser near each landing valves shall be made at each floor level of the building.

3. All other requirements of the water based Fire Protection System shall be made as per I. S. Specification 3844 – 1944 (with up to date amendment).

8. 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 pressurizes condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities.

9. 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 the I.S. specification 1946-1982.

2. The ducts shall be supply sealed at all floor level.

3. The electrical installation shall be adequately protected with CO2/D.C.P. or Medium Velocity Projector System.

4. Alternative Power Supply :

Arrangements shall have to be made to supply power with 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.

10. DETECTION, ALARM AND SUPPRESSION SYSTEM :

1. Manually operated Electrical Fire Alarm System with at least two numbers of break glass type call boxes fitted with Hooters along with public address system, other requirements of the system shall be made conforming I.S. 2189-1988.

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

3. Public Address System :

Public Address System linked between all floors and Control Room shall have to be established.

11. AIR CONDITIONING SYSTEM : (if any)

1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floors.

2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning System.

3. The Air Handling Units room shall not be used for storage of any combustible materials.

4. The system of auto shut down of AHU shall be incorporated with the auto detection and alarm system.

12. FIRST AID FIRE FIGHTING SYSTEM :

First Aid Fire Fighting 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. 2190-1992.

13. GENERAL RECOMMENDATIONS :

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 Floor numbers and 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 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.

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 the building.

14. After obtaining Fire Safety Certificate each year a certificate to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performances of Fire Safety arrangements and installation of the building.

On compliance of all the above Fire 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.

Director
West Bengal Fire & Emergency Services

Signature Not Verified
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PANDEY
Date: 2018.01.24 16:27:05 IST

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P. S. K. K. K.
Constituted Attorney