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GOVERNMENT OF WEST BENGAL
Office of the Director General
West Bengal Fire & Emergency Services
13-D, Mirza Galib Street, Kolkata – 700 016.

Memo. No. : WBFES / 4558 / 17/ Kol-RB/320/17 (320/17) Date: 27-06-17

From : **Divisional Fire Officer**
Fire Prevention Wing
West Bengal Fire & Emergency Services.



To : **Mr. Surendra Kumar Dugar & Ors.,**
83, Topsia Road (South),
Kolkata – 700 046.

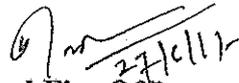
Sub : Fire Safety Recommendation for Proposed Construction of G+VI Storied Under Group Residential Building at the Premises No- 14A, Earle Street, Ward No.-69, Borough No.-VIII, Kolkata-700 019.

This is in reference to your Letter No. Nil, Dated. 09.02.2017, Regarding Fire Safety Measure Proposed Construction of G+VI Storied Under Group Residential Building at the Premises No-14A, Earle Street, Ward No.-69, Borough No.-VIII, Kolkata-700 019.

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 office is issuing **Fire Safety Recommendation** in favour of the aforesaid building subject to the compliance of the following fire safety measure.

Enclose:

1. One set of plan.
2. Recommendation.


Divisional Fire Officer
Fire Prevention Wing
West Bengal Fire & Emergency Services

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.
2. The interior finish decoration of the building shall be made low flame spread materials conforming L.S. specifications.
3. Arrangements shall have to make for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.

B. OPEN SPACE & APPROCH:

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 and height of the access gates into the premises shall not less than 4.5 - 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 / 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 the 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 conform the relevant building rules to up-to-date amendments.
4. The staircase shall be extended up to 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 flitted with self-closing type open able in the direction of escape.

D. LIFT:

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



E. FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 10,000 Ltrs. and overhead reservoir of 25,000 Ltrs. capacity exclusively for Firefighting purpose with replenishing arrangements @ 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.

F. SPRINKLER INSTALLATION

The automatic Sprinkler installation shall be provided in the entire 1st floor Commercial Areas of the building as per I.S 9972. Alarm gong to be incorporated along with the sprinkler system.

G. HYDRANT SYSTEM:

1. Provision of standard Hose Reel Hose supplied from the overhead reservoir through Booster Pump shall have to be made in all the floor of the building satisfy the code of I.S. 3844-1989.
2. Proper Replenishing Arrangement shall have to be made to keep the O H W R full at all time.

3. The building shall be provided with down comer along with hose reel hose connected to terrace tank through the terrace pump at 900 LPM capacity and provided 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 and shall not be less than 3.5 Kgs/Sq. cm. at the terrace tank level. One stand by pump of equal capacity shall be installed in the building. All other requirements shall conforming I.S. 3844-1989.

H. ELECTRICAL INSTALLATION & DISTRIBUTION:

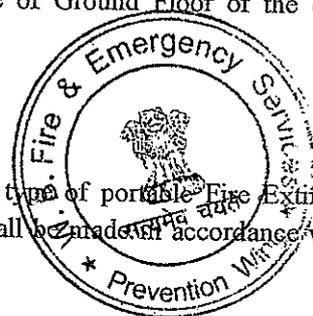
1. The electrical installation including transformers, Switch Gears, Main & Meters etc. and the distribution system of the premises shall be made satisfying the code of practice for Fire Safety in general building as laid down in I.S specification 1946-1982.
2. The vertical and horizontal electrical sealed at each floor level by fire resisting material.
3. The electrical installation shall be adequately protected with CO₂/D.C.P.
4. Alternate 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, Replenishment arrangement, 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.

I. DETECTION AND ALARM SYSTEM :

1. Auto fire detection system with the help of smoke / heat detector shall be installed in all places of below and preferably above false ceiling in the entire 1st floor (Office area) of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988.
2. Hooters will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.
3. 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, at each floor connecting with visual panel board shall be made in 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.

J. 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.



K. 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. Fire License shall have to be obtained for proposed storing and processing with L.P.G and other highly combustible articles.
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. 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 the **Director General, West Bengal Fire & Emergency Services** certifying about the satisfactory services, performance of all the Life & Fire Safety arrangements and installation of the building.

On compliance of all the 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 Safety Recommendation will be treated as cancelled.



[Handwritten Signature]
27/11/17
Divisional Fire Officer
Fire Prevention Wing
West Bengal Fire & Emergency Services

PS GROUP REALTY PVT. LTD.

[Handwritten Signature]
Director