

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/1981/16 /K.OI/RB/177/16 (177/16) Date : 03/03/16

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

To : Mr. Aditya Gupta,  
Director,  
IRC Infra & Realty Pvt. Ltd.,  
IRC House,  
1, Sunyat Sen Street,  
Kolkata-700 046.


Sub : Fire Safety Recommendation for B+G+V storied Residential Building (Existing B+G+IV storied residential building & 1 storey vertical extension for residential use at Premises no- 11J, East Topsia Road, Ward No-66, Borough-VII, Kolkata-700 046, under KMC.

This is in reference to your letter No. Nil dated 14.01.2016 regarding Fire Safety measure for B+G+V storied Residential Building (Existing B+G+IV storied residential building & 1 storey vertical extension for residential use at Premises no- 11J, East Topsia Road, Ward No-66, Borough-VII, Kolkata-700 046, under KMC.

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.

Encl. :

1. One set of plan.
2. Recommendation.

  
Director in Charge  
Fire Prevention Wing  
West Bengal Fire & Emergency Services



## RECOMMENDATION

### CONSTRUCTION :

1. The whole construction of the existing 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 provided.
4. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.

### 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 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 be 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 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 amendments.
4. All the staircase shall be extended up to terrace of the building and shall be negotiable to each floor.

### D. FIRE FIGHTING WATER :

Underground water reservoir having water capacity of 20,000 ltrs. and overhead reservoir of 10,000 ltrs. capacity exclusively for Fire fighting purpose with replenishing arrangements @ 1000 ltrs./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.

### E. HYDRANT SYSTEM :

1. 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 charge with water all the time under pressure and shall not be less than 3.5 Kgs/Cm<sup>2</sup>. All other requirements shall conform I.S. 3844-1989.
1. Yard Hydrant/Ring Main Hydrant with provision of two numbers Hydrant with one number Fire Service inlet shall be installed the building in accordance with relevant I.S. specification.
2. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.

## 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 CO<sub>2</sub>/D.C.P.
- 4 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, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

## G. DETECTION AND ALARM SYSTEM :

1. Manually operated Electrical Fire Alarm system with at least three 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.
2. Hooter will be sounded in such a manner so that an operation of a Manual Call Point Hooters will be sounded on the same floor and immediate alternate floor.

## H. 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.

## I. 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 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 the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Life and 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.

*De*  
*09.3.16*

DIRECTOR IN CHARGE  
FIRE PREVENTION WING  
WEST BENGAL FIRE & EMERGENCY SERVICES

