



GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIVISIONAL FIRE OFFICER, BURDWAN DIVISION  
WEST BENGAL FIRE & EMERGENCY SERVICES  
BURDWAN FIRE STN. BUILDING, DIST. BURDWAN.

Memo No. FES/Bdn/ 479 /2017

Dated: 17/3 /2017

From: The Divisional Fire Officer  
Burdwan Division,  
West Bengal Fire & Emergency Services

To : Shri M.K.Sharma (Director),  
ABHILASHA HEIGHTS PVT. LTD. & AARTI HIGHRISE PVT. LTD.  
9A, Lord Sinha Road,  
Kolkata 700071.

**Sub** : Fire Safety recommendation for the proposed construction of 3 numbers of new G+VII storied residential building as Block 7,8,9 and Additional Seventh floor on Block 2 under the group residential (Sub-division A-4) by named and style as ABHILASHA HEIGHTS PVT. LTD & AARTI HIGHRISE PVT. LTD at Mouza: Jagatberh, J.L.No. 34, L.R.Plot No. 187, L.R.Kh.No. 1449 and 1450, Mahalla Jagatberh, Holding No. 320, Ward No. 16, P.O. Sripally, P.S & Dist. Burdwan under the Burdwan Municipality.

**Ref**: Your application Dated 13/2/2017.

This is in reference to your letter dated 13/2/2017 regarding Fire Safety recommendation for the proposed construction of 3 numbers of new G+VII storied residential building as Block 7,8,9 and Additional Seventh floor on Block 2 under the group residential (Sub-division A-4) by named and style as ABHILASHA HEIGHTS PVT. LTD & AARTI HIGHRISE PVT. LTD at Mouza: Jagatberh, J.L.No. 34, L.R.Plot No. 187, L.R.Kh.No. 1449 and 1450, Mahalla Jagatberh, Holding No. 320, Ward No. 16, P.O. Sripally, P.S & Dist. Burdwan under the Burdwan Municipality.

The plan drawing submitted by you was scrutinized and marked as found necessary from Fire Safety point of view i.e Fire prevention and Fire safety Rules 1996 with upto date amendment and the relevant portions of Part IV of the N.B.C., I.S. Specification and relevant building Rules of Local Bodies subject to inspection report of the Inspecting Authority of this department. In returning one set of Plan with recommendation, this office is issuing Fire Safety recommendation in favor of the aforesaid factory/ building subject to the compliance of the following Fire Safety Measure. After complying of Fire safety recommendation (Enclosed herewith) N.O.C./Fire safety certificate will be issued in due course.

Enclosed; Recommendation

*DM*  
*17/3/17*

DIVISIONAL FIRE OFFICER  
BURDWAN DIVISION  
WEST BENGAL FIRE & EMG. SERVICES

## RECOMMENDATIONS

A. As the building will be high rise, .The following safety measures shall be provided during construction:-

- 1) Dry riser of minimum 100 mm diameter pipe hydrant outlets on the floor constructed with a Fire Service in let to boost the water in the Dry Riser and maintenance should be as per the requirements laid down in good practice (4(6)) of N.B.C. of India 2005.
- 2) Drums filled with water of 2000 lts capacity with two Fire Buckets on each floor shall be provided.
- 3) A water storage tank of minimum 20,000 lts capacity which may be used for other construction purpose as well as fire fighting purpose also shall be provided.

### B. 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 Panchayat body & N.B.C. of India (upto date amendment).
2. The floor area exceeds 750m<sup>2</sup> 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.
5. For underground structures, the use of combustible constructional materials and other than class-A interior finish should be provided.

### C. OPEN SPACE & APPROACH ROAD :-

- a. The open space of the surrounding building shall be kept clear to the sky and conform the relevant building rules as well as to permit the easy accessibility and maneuverability of Fire Appliances with turning facilities..
- b. The approach road shall be sufficiently strong to with stand the load of Fire Engine weighting up to 20 M.T.
- c. The width and height of the access gates into the premises shall not be less than 4.5 M and 5 M respectively

### D. STAIR CASES :-

- a. The stair case of the building shall be enclosed type and shall be two nos. at least Entire construction shall be made of bricks/R.C.C. type, having fire resisting capacity not less than 4 hours.
- b. The stair case of the building shall have permanent vents at the top and open able sashes at each floor level in the external wall of the building & the internal stair cases width shall be at least 2.0 mtr.
- c. The width trend, riser flight of the stair cases, corridors and the exit doors corridor, passage way, lobby etc. shall conforming the relevant building rules with up to date amendments.
- d. All the stair case shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.  
Fire and smoke check doors at the entrances of all the stair case 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 windows fitted with self closing type open in the direction of escape.

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### CAPACITY OF EXITS:-

- a) The unit of exit width used to measure the capacity of any exit shall be 50 cm. A clear width of 25 cm shall be counted as an additional.
- b) Travel distance to an exit from the dead end shall not exceed 6 meter.
- c) Fire escape stairs shall be provided straight flight not less than 75 cm, wide with 20 cm and treads/risers not more than 19 cm. The nos. of risers shall be limited to 15 per height.

In buildings or sections occupied bed-ridden patients where the floor area is over 280 m<sup>2</sup> facilities shall be provided to move patients in hospital beds to the other side of a smoke barrier from any part of such buildings or section not directly served by approved horizontal exits from first floor of a bldg. to the outside.

### E. LIFT :-

1. The walls of the lift enclosure shall be at least two hours fire resisting type collapsible gate shall not be permitted.
2. One of the lift at each block shall be designed for fire lift. The word " FIRE LIFT " shall conspicuously written at ground floor.
3. All other requirements in this regard shall conform the sec. 5 of Part VIII of N.B.C. of India, 2005.

### G. REFUGE AREA :

- a. Refuge area is not less than 15 sq. m. shall be provided on the external wall with cantilever projection or other suitable means above at 24 m.
- b. The refuge area shall be of fire resisting construction and protected with self closing FCD at the entrance from the corridor or the staircase lobbies.
- c. The position of refuge areas shall be such that they are negotiable by the fire service ladder from the ground.

### H. FIRE FIGHTING WATER :

Underground water reservoir having water capacity at 2 lakhs lts. capacity exclusively for fire fighting purpose with replenishing arrangements @ 1000 lts./min. preferably from two different sources of water supply shall be provided. The water reservoir shall be kept full at all time.



M. AIR CONDITION 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 system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.
4. The air handling unit room shall not be used for storage of any combustible materials.
5. All other requirements in this regard shall be provided as per N.B.C. of India 2005 laid down under sec. 3 of Part VIII.

N. 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.

: 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) Floor numbers and directional Sign of escape route shall be displayed prominently.
  - 3) 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.
  - 4) 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.
  - 5) A crew of trained Fireman under the experienced officer shall be maintained round the clock for safety of the building.
  - 6) Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building liaison with the local Fire Brigade.
  - 7) Storage of volatile flammable liquids, such as chloroform, ethyl alcohol, spirit either etc shall not be permitted in quantities more than 5 ltrs. separate license shall have to be taken exceeding the quantities.
  - 8) Rubberized anesthetic breathing equipments and rubber tubing used with suction operators etc. should have permanent antistatic properties or be damped internally and externally with water containing a wetting agent such as soap or detergent.
  - 9) Switch contacts and other apparatus capable of producing a spark should be housed in a gas tight enclosure or spaced at least 6 ft. horizontally from any anesthetic apparatus.
  - 10) The maximum voltage of circuit should be as low as practicable as and not appreciably higher than the rated voltage of the lamps.
  - 11) Dry cell batteries are safer than main transformer for operating Endoscopes.
  - 12) Green view concept of the building and premises may be provided with water body, roof Garden, wind flowers etc.
- Each year a certificate is to be obtained from this office certifying about the satisfactory services, performance of all the life and fire safety arrangements and installation of the building.

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- 14) Any changes/Deviations the nature of use group of the building other than approved plan drawings shall not be permitted with out Prior permission from this office.
- 15)
- 16) To eliminate Fire Hazardous, good house keeping both inside and out side the building shall be strictly maintained by the occupants/ or the owner of the building.
- 17) The lightning protection for the buildings shall be provided under sec. 2 of Part VIII "Building Services" of N.B.C. of India 2005.
- 18) After completion of the total construction work and installation of total fire safety measures of the building , a letter of information must be communicated to this office for further inspection to issue the final N.O.C. of the building if satisfied by the inspecting authority of this Department.
- 19) Violation any of the above recommendation the Fire safety certificate/ N.O.C. shall treated as cancelled and legal action as per Fire Service Act & Rules 1950 (Amended up to date) may be taken ion force.

