

**Government of West Bengal**  
**Office of the Divisional Fire Officer**  
**North 24 Parganas Division**  
**West Bengal Fire & Emergency Services**  
**Ghoshpara Road, Badamtala, Post-Bengal Enamel, 24 Parganas(N), Pin-743122**

Memo No. : FS/N 24 PGS DIVN./R/ 07 /18(166/17) Dated : 13/03/2018.

**From :** Divisional Fire Officer,  
North 24 Parganas Division,  
West Bengal Fire & Emergency Services.

**To :** The Authorised Signatory,  
Aspira Developers LLP,  
Poddar Court, 18-Rabindra Sarani,  
Gate No: 4, 7<sup>th</sup> Floor, Suit-703 & 704,  
Kolkata-700 001.

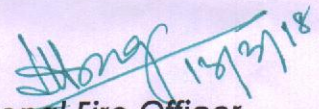
**Sub :** Fire Safety Recommendations for the proposed construction of G+IV storied buildings under Group of Occupancy: Residential, premises at holding No: 137 F B.T. Road, ward No: 10 under Panihati Municipality, R.S. Dag No: 3523, 327, 3530, Khatian No: 2434, 2435, 2436 and 2437, Mouza: Panihati, J.L. NO: 10, P.S-Khardah (formerly Sodepur), North 24 Parganas.

This is in reference to your **letter dated: 13-07-2017**, regarding **Fire Safety Recommendation** for the proposed construction of G+IV storied buildings under **Group of Occupancy: Residential**, premises at holding No: 137 F B.T. Road, ward No: 10 under Panihati Municipality, R.S. Dag No: 3523, 327, 3530, Khatian No: 2434, 2435, 2436 and 2437, Mouza: Panihati, J.L. NO: 10, P.S-Khardah (formerly Sodepur), North 24 Parganas.

The plan drawings 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 Recommendations** in favour of the aforesaid building subject to the compliance of the following fire safety measure.

**Enclo. :**

1. Recommendation.
2. One set Plan.

  
**Divisional Fire Officer**  
**North 24 Parganas Division**  
**West Bengal Fire & Emergency Services**

## **RECOMMENDATION**

### **A. CONSTRUCTION :**

- 1) The whole construction of the existing building shall be carried out as per approved plan drawings conforming the relevant building rules of West Bengal Municipal Building Rules.
- 2) The floor area exceeds 750 Sq meter 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) Arrangements shall have to be made for scaling all the vertical 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 meter and 5 meter respectively.

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

### **D. LIFT (IF ANY) :**

- 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 shall be designed for fire lift. The word "FIRE LIFT" shall conspicuously written at ground floor.

### **E. FIRE FIGHTING WATER:**

Under ground water reservoir water capacity at 1,00,000 ltrs. and overhead reservoir of 30,000 ltrs exclusively for fire fighting purpose with replenishing arrangements @ 1,000 ltrs/min preferably from two different sources of water supply shall be provided. The water reservoir shall be kept full at all time.

### **F. HYDRANT SYSTEM :**

- 1) The building shall be provided with wet riser of 150 mm internal diameter pipe line with provision of landing valves at the staircase landings / half landings. The

overhead Reservoir shall be connected with the adequate diameter pipe with wet risers of hydrant and sprinkler of 150 mm diameter pipe line. The system shall be so designed that shall be kept charged with water all the time under pressure and capable to discharge 2400 lts/min. In both cases the running pressure shall not be less than 3.5 kgs/sq.cm at the ground floor level & top most level, conforming I.S. 3844-1989.

- 2) Provision for Hose Reel in conjunction with wet riser shall be made at each floor level. Conforming the relevant I.S. specification.
- 3) Provision of three way collecting head for uses of Fire services must be provided at the entrance of the building.

#### **H. FIRE PUMP :**

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.

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.

#### **I. 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. 1946-1982.
- 2) The vertical ducts shall be supply sealed at alternative floor level.
- 3) The electrical installation shall be adequately protected with CO<sub>2</sub>/ D.C.P.
- 4) **Alternative power supply** - arrangements shall have to made to supply 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 incase of normal power failure.

#### **J. DETECTION, ALARM AND SUPPRESSION SYSTEM :**

- 1) Manually operated electrical fire alarm system with adequate numbers of break glass type call boxes fitted with hooters along with public address system, talk back system at each floor connecting with audio-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) Public Address System: This system linked between all floors and Control Room shall have to be established.

#### **K. FIRST AID FIRE FIGHTING SYSTEM :**

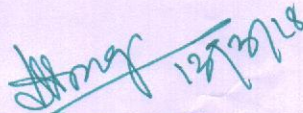
First Aid Fire fighting arrangements in the style of placing suitable type of portable fire extinguishers, fire buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S.2190-1992.

**L. 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 a vulnerable places of the building.
- 3) Floor numbers and directional sign of escape routs 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 & Testing.
- 5) Arrangement shall be made 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 the building.
- 7) Each year a certificate is to be obtained from the **Divisional Fire Officer, North 24 Parganas Division, West Bengal Fire & Emergency Services** certifying about the satisfactory services, performance of all the life & fire safety arrangements and installation of the building.

This shall be treated as **Fire Safety Recommendation** on compliance of all the above fire and life safety recommendations, the **Divisional Fire Officer, North 24 Parganas Division, 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.

  
**Divisional Fire Officer**  
**North-24 Paraganas Division**  
**West Bengal Fire & Emergency Services**