



**Government Of West Bengal**  
**Office Of The Director General**  
**West Bengal Fire & Emergency Services**  
**13D, Mirza Ghalib Street, Kolkata - 16**

Memo no.:FSR/0125186211200104

Date: 23-06-2021

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

**To: Janhit Infrastructure LLP & Others.**  
**36/1A, elgin road Kolkata - 700 020**

**Sub: Fire Safety Recommendation for proposed construction of 7 Nos. G+4 storied blocks at premises no, Ward no 23, Dag no 627,629 to 631, 639 to 649, 669, 674 & 688, J.L. No. 77, Mouza – Manikpur, P.S. – Sonarpur, under Rajpur – Sonarpur Municipality, Dist. – South 24 Parganas.**

This is in reference to your application no. 0125186211200104 dated 23-03-2021 regarding the Fire Safety Recommendation for proposed construction of 7 Nos. G+4 storied blocks at premises no, Ward no 23, Dag no 627,629 to 631, 639 to 649, 669, 674 & 688, J.L. No. 77, Mouza – Manikpur, P.S. – Sonarpur, under Rajpur – Sonarpur Municipality, Dist. – South 24 Parganas.

**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 favor of the aforesaid building subject to the compliance of the following fire safety measure.**

**Recommendation:**  
**RECOMMENDATION**  
**A.CONSTRUCTION:**

- 1.The whole construction of the proposed building complex shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body/ authority.
- 2.Materials for rapid flame spread categories including untreated wood fiber board etc. shall be not use. The doors and windows preferably shall be made of metal.
- 3.The interior finish decoration of the building shall be made with the materials with low flame spread and low smoke and toxic gas generating categories conforming I.S. Specification.
- 4.Arrangement shall have made for sealing all the vertical service ducts by the materials of adequate Fire resisting capacity.

5.Fire rating test certificate of all interior finish decoration should be submitted to this office before taking occupancy.

6.Service Ducts and shafts should be enclosed by a walls of 2 hours and doors of one hour fire rating. All such ducts shall be properly sealed and fire stopped at all floor level.

#### B.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 maneuverability of the Fire appliances with turning facility.

2.The approach road and roads surrounding the building shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.

3.The width and height of the entry gates to the promises shall not be less than 4. 5m and 5m respectively.

4.Driveway should be free of any type obstruction. No parking will be allowed on the Drive Way.

#### C.STAIRCASE:

1.The staircase of the building shall be enclosed type, entire construction shall be made of brick / R.C.C. type having Fire resisting capacity not less than 4 hours respectively marked in the plan.

2.The staircases shall have permanent vents at the top equal to 5% of the cross sectional area of the staircases enclosures and open able sashes at each floor level equal to 15% of the said cross section are shall have to be provided in the external wall of the building.

3.All the staircase of the building shall be negotiable to each other in each floor without entering into any room and shall be extended up to respective terrace. The roof of the stair wall shall be 1M above the surrounding roof area.

4.The width of the staircases and corridors and travel distance of different categories of occupancies shall have to conform the relevant building rules.

5.Considering the staircases are only means of evacuation, emergency lighting arrangement directional, exit, sign etc. shall be made conforming the relevant I.S. Code in this regards.

#### D.LIFT:

Lift doors shall be enclosed type of at least two hours fire rating., collapsible gates shall not be allowed.

#### E.FIRE FIGHTING WATER:

1.Water exclusively for Fire Fighting operation shall be ensure minimum 100000 lts. all the time.

2.The Fire water reservoir shall be having 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 2000lts./min. from two separate sources of water supplies shall be made.

5.The deep tube wells for the replenishment of the reservoir shall be incorporated with the auto starting facility with the actuation of auto detection and suppression arrangement of the premises and shall also be connected with dual power supply units.

#### F. WATER LAYOUT SYSTEM :

##### a.Ringmain Hydrant System:

i.100 mm dia Ring main water layout arrangement covering the entire premises of the project with provision of pillar type yard hydrants with hose boxes, containing 1 lengths of 63mm delivery hose and short branch pipe shall be provided at all the strategic location and surrounding the building conforming I.S. 3844-1989 (upto date amendment).

ii.The system shall be so designed that shall always be kept charged with water under pressure and capable to discharge min. 1620 ltrs./min. at the pressure 7kg/sq.cm. at any point.

##### b.Wet Riser & Hose Reels System :-

i.The building shall be provided with Wet Riser and Hose Reel unit with provision of outlets in each floor at the staircases landings/half landings as per suitable at the rate of one such unit of Wet Riser and Hose Reel per 1000sq.m. of floor area.

ii.Hose Reel Unit:- 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.

iii.All other requirements of the water base Fire Protection System shall be made as per I.S. Specification 3844-1989 (with up to date amendment).

#### G.FIRE PUMP:

1.1620 Lts. Per min. giving a pressure not less than 0.3N/m<sup>2</sup>. The pump provided with suction and delivery size not less than 15 cm. dia. A set ball valve to supply the tank with at least 1620 ltrs. Per minute from the fire pump.

2.A stand by pump of equal capacity shall be provided preferably be diesel driven.

3. Provision of Jockey pump have to be made to keep up the water based system under pressurized condition at all the time.

4.The suction of pump shall preferably be positive type, in case of negative suction the system shall be wet riser cum down comer with suitable terrace pump with over head tank.

#### H. ELECTRICAL DISTRIBUTION SYSTEM:

1. Electrical distribution system of all the building shall be made in the form of concealed wiring or in heavy gauge M.S. conducted continuously bonded to earth cables shall be I.S. marked and preferably be of F.R.L.S. categories.

2. Electrical distribution System shall conform all the requirements laid down in I.S. 1646-1982.

3. For every 230V wiring above false ceiling 660 grade insulated cable shall be used Transformer Switch Gear H.T., L.T. and other electrical rooms shall be at the ground floor level the other electric rooms shall be at least 4hrs. fire resisting capacity adequate ventilation arrangement shall have to be made in all the rooms, Dry and explosion proof type transformer shall be installed.

4. All electrical installation viz. Transformers, Switch Gears, L.T., HT rooms shall be protected with both auto detection and suppression systems as per suitability.

#### I. DETECTION AND ALARM SYSTEM :

1. Manually operated Electrical Fire Alarm system with at least one numbers of break glass type call boxes fitted with Hooters shall be provided in each floor, Hooter 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.

#### J. 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) Arrangements shall be made for isolation at the strategic location by incorporating auto dampers in the air conditioning system.
- 3) The system of auto shutdown of A.H.U shall be incorporated with the detection and alarm system.
- 4) The air handling unit's room shall not be used for storage of any combustible materials.

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

1. First Aid Fire fighting arrangement in the style of placing suitable type of portable Fire Extinguishers- I.S.I. mark, 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. Floor numbers and directional sign, etc. shall have photo luminescent signals at each floor of all blocks of building including shall be made available conforming the relevant I.S. Specification.

2. Provision of emergency illuminating exit shall be made at all floor levels of all blocks of building conforming the I.S. Specification.

3. Fire license have to be obtained for proposed storing and processing with highly combustible articles

4. If diesel oil is stored beyond the specified quantity license shall be accorded from the appropriate authority.

5.The occupants, employees and security staff shall be conversant with installed First aid Fire Fighting equipments of the building and to operate in the event of Fire and Testing.

6.Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipments and means of escapes installed in the building to keep them in perfectly good working conditions at all times by authorized competent agency is this regard.

7.Practice and evacuation drill shall be arranged at regular interval of time involving all the occupants and security staff shall be recorded.

8.Every three 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 Lift and Fire Safety arrangements and installation of the building.

This shall be tested as Fire Safety Recommendation 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 favor 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