

# GOVT OF WEST BENGAL

OFFICE OF THE DIVISIONAL FIRE OFFICER

SEPOY BAZAR. PASCHIM MEDINIPUR DIVISION

WEST BENGAL FIRE & EMERGENCY SERVICES

Memo No : WBFES/PSM/ FSE/35/16.....

Dated : 09/11/16.....

From : The Divisional Fire Officer

Paschim Medinipur Division

West Bengal Fire & Emergency Services

To : Dhanonjoy Bera & Others

Sonamui, P.S- Daspur, Dist- Paschim Medinipur

**Subject** : Fire Safety Recommendation of Proposed B+G+4 storied under group of residential cum <sup>Merchant</sup> commercial building at Sonamui, Plot No- 1005, 1006, 1007, 1080, 1081, 1082 & 1089, J.L. No- 86, P.S- Daspur, Dist- Paschim Medinipur.

Sir,

This is in reference to your latter memo no- FES/PSM/NOC/22/16, dated 13.07.2016 regarding Fire Safety recommendation at the above mentioned premises that, the plan submitted by you, were scrutinized and necessary fire safety measures were marked.

In returning here with one set of plan, the office is issuing and fire safety recommendation in favor of the aforesaid mention premises subject to the compliance of the following Fire Safety measure.

## FIRE SAFETY RECOMMENDATION

### A. CONSTRUCTION :

1. The whole construction of the building to be carried out as per approved plan drawing conforming the relevant building rules of local Panchayet body.
2. The floor area exceeds 500 m<sup>2</sup> shall be suitable compartmented by separation wall up to ceiling level having at least two hours fire resisting capacity.
3. Then interior finish decoration of the building shall be made low flame spread and non slippery material conforming I.S. specification. The number of FCD (fire checked door) marked in the plan to be constructed.
4. Vertical duct to be seated with fire proof material in all floors.

### B. OPEN SPACE & APPROACH :

1. The open space surrounding the building shall be conform the relevant building rules as well as permit the accessibility and maneuvering 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.

**A. 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 no less than 4 hours.
2. The staircase of the building shall have permanent vents at the top and open able access at each floor level in the external wall of the building.
3. The width of the staircase shall be made as mark in the plan. Corridors and the exit door 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 without entering any room.
5. Mercantile and residential staircase should be separated @ 1.8x2 nos. for mercantile.

**B. FIRE FIGHTING WATER :**

1. Under ground water reservoir having water capacity 20,0000 ltrs. And over head water tank capacity 10000 ltrs. Exclusively for fire fight proposed with replacing arrangements @1000 ltrs./min. Preferably from two different source of water as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.
2. Provision for 100 mm internal diameter wet riser system in conjunction with standard hose reel hose in each staircase landing / half landing shall be installed. Auto sprinkler should be provided in each floor in all corridor and also to be provided at the basement. Fire service inlet with two way to be installed in the ground floor area and discharge minimum 900 Lts/min. to maximum 2280 Lts/min. along with Fire main pump, jockey pump, and one standby pump in designed pressure with auto and manual facilities to be installed.

**C. 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 laid down in I.S. specification 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>/DCP.

**D. ALTERNATIVE POWER SUPPLY :**

Arrangement shall have to be made to supply power with the help of 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 place of assembly of the building in case of normal power failure.

**E. DETECTION AND ALARM SYSTEM :**

1. Manually operated electrical fire alarm system with at least three number of break glass type call boxes fitted with hooters along with public address system, at each floor connection 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 confirming I.S. 2189-1988.
2. Auto fire detection system with the help of heat and smoke detector shall be installed in all places of below and preferable above false ceiling of the building. The system shall also be made in place of room where valuable articles have been kept. The other requirement of the system shall be made in accordance with I.S. 2189-1988.
3. The suppression system shall be made with fire extinguishers and total flooding system with CO<sub>2</sub>/F.M.-200 particularly in computer and electrical processing and data room and in a room of irreplaceable articles.
4. Hotter will be sounded in such a manner so that and operation of a detector or manual call point hooters will 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 extinguisher, fire buckets etc. in all floor and vulnerable locations of the premises shall be made in accordance with I.S. 2190-1992.

I. **GENERAL RECOMMENDATION** :

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 number 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 testing.
5. Arrangement shall be made for regular checking, testing and proper maintenance of all the fire 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 occupants of building.
8. Gas bank should be provided outside the kitchen room.
9. Each year a certificate is to be obtained from The Divisional Fire Officer 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 Divisional Fire Officer West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of installation, final N.O.C, in favor of the occupancy shall issued on being satisfied with the tests and performance of safety aspects of installation of the building.

N.B. : any deviation and changes the nature of use of the building in respect to the approved plan drawing, without obtaining prior permission from this office, this fire safety recommendation will be treated as cancelled.

  
9/11/16  
The Divisional Fire Officer

Paschim Medinipur Division

West Bengal Fire & Emergency Services

Divisional Fire Officer  
Paschim Medinipur Division  
W.B. Fire & Emergency Services