

20/2/19

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIVISIONAL FIRE OFFICER  
WEST BENGAL FIRE & EMERGENCY SERVICES**

Memo No : IND/WB/FES/20182019/44463

DATE: 27/02/2019

**From :**  
The Divisional Fire Officer  
Fire Prevention Wing,  
West Bengal Fire & Emergency Services.

**To :**  
BHOOMI DEVELOPERS  
Proposed G 7 Storied Apartment Building Of Bhoomi Developers, Over R.S. Plot No-  
1467(Part),1468(Part),Hal Plot No-1839,1842,Mouza-Kaliganj,J.L.No-83,P.S.-NTPS,Dist-  
Paschim Bardhaman  
Durgapur F.S., N.T.P.S. Durgapur PS,  
Paschim Bardhaman - 713212 .

**Sub :**Fire Safety Recommendation for a proposed construction of G + 7 storied  
building of BHOOMI DEVELOPERS under group Residential Over R.S. Plot No-  
1467(Part),1468(Part),Hal Plot No-1839,1842,Mouza-Kaliganj,J.L.No-83,P.S.-NTPS,Dist-  
Paschim Bardhaman -713212.

This is in reference to your Application No. IND/WB/FES/20182019/44463,dated 27/02/2019,  
regarding the Fire Safety Measure for a proposed construction of G + 7 storied building of  
BHOOMI DEVELOPERS under group Residential Over R.S. Plot No-  
1467(Part),1468(Part),Hal Plot No-1839,1842,Mouza-Kaliganj,J.L.No-83,P.S.-NTPS,Dist-  
Paschim Bardhaman -713212..

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

Recommendation:

1. RECOMMENDATION

#### A.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/Panchayet/ Municipal Corporation as well as N.B.C. of India 2005.
- 2)The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specification.
- 3)Provision of ventilation at the crown of the central core-duct of the building shall be provided.
- 5.Arrangement shall have to be made for sealing 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 with stand the load of Fire Engine weighting up to 20 M.T.
- 3)The width and height of the access gates into the premises shall not be less than 4.5 m and 5 M respectively abutting the road.

#### C.STAIR CASE :-

- 1)The Stair case 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 Stair case 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 Stair cases shall be made as marked in the Plan Corridors and the exit doors shall conforming the relevant building rules and well as rules of the cinematograph Act with up to date amendments.
- 4)All the Stair cases shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

#### D.FIRE FIGHTING WATER :

- 1.Underground water Reservoir having water capacity at 50,000 Lts. Capacity with replenishing arrangement @ 1000 lts/min. preferably from two different sources of water supply shall be provided.
- 2.The Fire 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 times.

#### E.HYDRANT SYSTEM :-

- 1)The building shall be provided with Wet Riser 150 mm internal diameter pipe line with provision of landing valves at the Stair case 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 charged with water all the time under pressure and capable to discharge 1620 lts. /min. at the

ground floor level outlet and minimum 180 lts./min. at the top most outlet. In both cases the running pressure shall not be less than 3.5 kgs/sq.m. All other requirements shall conform I.S. 3844-1899.

- 2) Provision of Hose reel in conjunction with wet riser shall be made at each floor level conforming the relevant I.S. specification.
- 3) Provision of standard Hose Reel Hose supplied from the overhead Reservoir (10000 LTR) through Booster pump shall have to be made in all the floor of the building satisfy the code c I.S. 3844-1989.

#### F. FIRE PUMP:

1. Provision of Fire Pump shall have to be made to supply water at the rate designed pressure and discharge into the Mater 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.
2. The suction of Pumps shall preferably of positive type or in case of negative suction the system shall be Wet Riser-cum-Down Comer with suitable terrace Pump fitted with overhead tank.

#### F.ELECTRICAL INSTALLATION & DISTRIBUTION :-

1. The electrical installation including transformers, Switch Gears, Min & 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 ducts shall be supply sealed at alternative floor level.
3. The electrical installation shall be adequately protected with Co2 /D.C.P. or Medium Velocity/Projector system.
4. Alternate Power Supply :-  
Arrangement shall have to be made to supply power with the help or 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 Stair case, corridors etc. and other places of assembly of the building in case of normal power failure.

#### G.DETECTION,ALARM AND SUPPRESSION SYSTEM :

- 1) Manually operated Electrical Fire Alarm system with at least two numbers of break glass type shall be installed.
- 2) All other installations shall satisfy the code of I.S. Specifications 2189 and the code of practice as laid down in the N.B.C. Part -IV (2005).

#### 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.

#### 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 the 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) 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.
- 6) After completion of entire construction of the proposed building and Fire safety installations, a letter of information must be communicated to the office for further inspection to issue the FSC.
- 7) This Fire safety Recommendations valid for one year from the date of issue and Prior information is required for further extension the period.

**Divisional Fire Officer  
West Bengal Fire & Emergency Services**

Signature valid

Digitally signed by NITAI  
CHATTOPADHYAY  
Date: 2019.02.27 12:22:27 IST