



Government Of West Bengal  
Office Of The Divisional Fire Officer, Paschim Bardhaman  
West Bengal Fire & Emergency Services  
Bhangakhuti, Purba Burdwan, P.O.:- Rajbati, Pin :- 713104

Memo no.: FSR/0125186229100129

Date: 25-06-2022

From:  
Divisional Fire Officer, Paschim Bardhaman  
West Bengal Fire & Emergency Services

To: Smt Chandra Maji , Sri Pijush Kanti Saha , And Nirmal Kanti Saha.  
R.s.Plot.No.535, 536, L.r.Plot.No.588, 589, L.r.Kh.No. 6218, 5613, 5614, Mouza-Asansol, J.I.No-35, P.s-Asansol(S),  
Holding No-47(96),46/95, Old Station Asansol, Dist-Paschim Bardhaman, Under-A.M.C.

Sub: Fire safety Recommendation of a proposed G+4 Storied Residential building of Smt Chandra Maji , Sri Pijush Kanti Saha , And Nirmal Kanti Saha.at R.s.Plot.No.535, 536, L.r.Plot.No.588, 589, L.r.Kh.No. 6218, 5613, 5614, Mouza-Asansol, J.I.No-35, P.s-Asansol(S), Holding No-47(96),46/95, Old Station Asansol, Dist-Paschim Bardhaman, Under-A.M.C.

This is in reference to your application no. 0125186229100129 dated 13-05-2022 regarding the Fire safety Recommendation of a proposed G+4 Storied Residential building of Smt Chandra Maji , Sri Pijush Kanti Saha , And Nirmal Kanti Saha.at R.s.Plot.No.535, 536, L.r.Plot.No.588, 589, L.r.Kh.No. 6218, 5613, 5614, Mouza-Asansol, J.I.No-35, P.s-Asansol(S), Holding No-47(96),46/95, Old Station Asansol, Dist-Paschim Bardhaman, Under-A.M.C.

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:**

**A. CONSTRUCTION :**

1. The whole construction of the proposed building shall be remained as per approved plan drawings conforming the relevant building rules of local Municipal Body.
2. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
3. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
4. Arrangements shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate Fire resisting capacity.

**B. OPEN SPACE & APPROACH :**

1. The open space surrounding the building shall confirm 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 4.5-5 Mtrs. Respecting the abutting

✓Which has marked in the plan.

#### 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 2 hours.
2. The staircase 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.
3. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conform the relevant building rules with up-to-date amendments.
4. The staircases shall be extended up to terrace of the building and shall be negotiable to each floor without entering into any room.

#### D. Lift :

1. The walls of the lift enclosure shall be at least two hour 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.
3. Collapsible gate shall not be permitted.

#### E. FIRE FIGHTING WATER:

Underground water reservoir having water capacity at 30,000 ltrs with domestic tank overhead reservoir of 25,000 ltrs for firefighting purpose with replenishing arrangements @ 1000 ltrs./min. Preferably from two different sources of water supply shall be provided. The fire water reservoir shall have overflow arrangement with the domestic water reservoir as well as to avoid stagnancy of water. The water reservoirs shall be kept full at all time.

#### F. Hydrant system:

Provision for Hose Reel Hose in conjunction with Hose Reel Hose supplied from the overhead reservoir through a booster pump having capacity of 900 LPM shall have to be made in the floor of the building satisfy the code of IS 3844-1989.

The building shall be provided with Down Comer connected to terrace tank through the terrace pump of 900 L PM capacity and providing one 100mm internal diameter pipe line with provision of landing valves at the Staircase 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 one standby at the same capacity shall also be installed. In both case running pressure shall not be less than 3.5 Kgs/cm<sup>2</sup>. All other requirement shall conform IS 3844-1989.

Yard Hydrant with provision of one numbers Hydrant with one number fire service inlet shall be installed the building accordance with relevant IS specification. Proper replenishing arrangement shall have to be made to keep the O.H.W.R. full at all time.

#### G SPRINKLER INSTALLATION:

The automatic sprinkler installation shall be provided in car parking ground floor areas of the building as per IS 9972. Alarm gang to be incorporated along with the sprinkler system.

#### H ELECTRICAL INSTALLATION & DISTRIBUTION:

The electrical installation including transformers, Switch gears, Main & Meter 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.

The vertical ducts shall be supply sealed at alternatives floor level.

The electrical installation shall be adequately protected with CO<sub>2</sub>/D.C.P or medium velocity/ Projector system.

#### I) Alternative Power Supply:

Arrangements shall have to be made power with the help of a generator to operate at least the Fire Pump, Pump for deep Tube-well alarm, fire safety for lift etc. and also for illuminating the staircase corridors etc. and other of assembly of the building in case of normal power failure.

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

Manually operated Electrical Fire Alarm system with at least three numbers of break glass type call boxes fitted with public address system.

## FIRST AID FIRE FIGHTING SYSTEM:

First Aid firefighting arrangements in the style of placing suitable type of portable Fire Extinguishers, Fire buckets etc. in all floor and Vulnerable Location of the premises shall be made in accordance with I.S. 2190-1992.

## GENERAL RECOMMENDATIONS:

1. Fire notice fire fighting evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

Floor numbers and directional sign of escape route shall be displayed prominently.

2. The employees and security staff shall be conversant with installed Fire Fighting equipment's of the building and to operate in the event of fire and testing.

3. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire safety installation and equipment's installed in the building to keep them in perfectly good working conditions at all time.

4. On compliance of all above Fire and Life safety recommendations, the Divisional fire officer of Burdwan District of West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation, Final N.O.C. in favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building.

5. 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 recommendations. will be treated as cancelled.

Memo No.: FSR/0125186229/10129

Signature Not Verified  
Digitally signed by BAM  
KUMAR CHOWHURY  
Date: 2022.06.25 19:29:06 IST

Divisional Fire Officer, Paschim Bardhaman  
West Bengal Fire & Emergency Services