

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

Memo No : IND/WB/FES/20192020/21818

DATE: 20/04/2019

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

To :
MRS. SUKLA BHOWMICK
MOUZA-TETIKHOLA,
J. L NO-111,
OVER L.R. PLOT-124,148,149,
L.R. KHATIAN NO-957,963,1357,1358,1665,2033, 2034,2035,2153,
2154, 2155, 2156.
P.S-N.T.S.DURGAPUR
DIST-PASCHIM BARDHAMAN.

Sub: Fire Safety Recommendation for a proposed construction of B+G+9 Storied Residential Building of Mrs.Sukla Bhowmick,L.R Plot NO-124,148,149 J.L NO-111,L.R Khatian NO-957,963,1357,1358,1665,2033,2034,2035,2153, 2154, 2155, 2156.Mouza-Tetikhola,P.S-New Township, Dist-Paschim Bardhaman.

This is in reference to your Application No. IND/WB/FES/20192020/21818 ,dated 20/04/2019, regarding the Fire Safety Measure for a proposed construction of B+G+9 Storied Residential Building of Mrs.Sukla Bhowmick,L.R Plot NO-124,148,149 J.L NO-111,L.R Khatian NO-957, 963,1357,1358,1665,2033,2034,2035,2153, 2154, 2155, 2156.Mouza- Tetikhola, P.S-New Township, Dist-Paschim Bardhaman.

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. 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 Municipal Body .**
- 2. If the floor area remains exceed 750 m² shall be suitable 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 of low flame spread materials conforming to I.S. specifications.**
- 4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.**
- 5. Roof is used as a refugee area in case of an emergency and it should be clear open to sky for all time. No permanent or temporary structure will be allowed on the roof.**
- 6. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.**

2. OPEN SPACE & APPROACH:

- 1. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.**
- 2. The width and height of the access gates into the premises shall not be less than 4.5 and 5 M respecting abutting the road.**

3. REFUGE AREA:

- 1. Refuge area is not less than 15 sqm. and shall be provided on the external wall with cantilever projection or other suitable means at above .. mtr. and .. mtr. levels of the building as shown in the drawings.**
- 2. The refuge areas shall be of Fire Resisting construction and protected with self-closing F.C.D. at the entrance from the corridors at staircase lobbies.**
- 3. The position of refuge areas shall be such so that they are negotiable by the Fire Service Ladder from the ground level.**

4. STAIRCASE:

- 1. The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / RCC type having Fire Resisting Capacity not less than 4 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 Staircase shall be made as shown in the plan. Corridors and the exit doors shall conform the relevant building rules with up to date amendments.

4. All the staircases shall be extended up to terrace of the building and shall be negotiable to each floor without entering any occupied area.

5. Fire & Smoke doors at the entrance of all the staircase enclosures at each floor level shall be provided. The F.C.D. shall be of the least one hour Fire resisting Wire Glass Window fitted with self closing type openable in the direction of escape.

5. LIFT:

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 lifts shall be designed for Fire Lift. The word "Fire Lift" shall conspicuously be written at ground floor.

6. FIRE FIGHTING WATER:

Underground water having capacity of 2,50,000 ltrs. and Overhead water reservoir of 25,000 ltrs. In each building capacity exclusively for Fire Fighting purpose with replenishing arrangements @1000 ltrs/min. preferably from two different sources of water shall be provided. The water reservoirs shall have overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water. The water reservoirs shall be kept full at all time.

Arrangement is to be taken so that fire appliances can reach nearest to the Existing pond to draw water in case of emergency with replenishing arrangement at the rate of 1000 Lts./min. Preferably from Two different sources of water supply shall be provided.

7. HYDRANT SYSTEM :

1. The building shall be provided with Down Comer of 150m. 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 capable to discharge 2850 Lts./min. at the ground floor level outlet and minimum 900 Lts./min. at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kgs/cm². All other requirements shall conform I.S. 3844 – 1989.

2. Provision of Hose Reel in conjunction with Down comer shall be made at each floor level conforming the relevant I.S. specification.

3. Ring Main Hydrant with provision of adequate numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specification.

8. FIRE PUMP:

Provision of 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.

9. 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 specifications 1946 - 1982.

2. The vertical ducts shall be sealed at alternative floor level.

3. The electrical installation shall be adequately protected with CO₂ / D.C.P Fire Extinguishers.

4. All electrical Sub-station shall be on the Ground Floor level and structurally to be separated from the main enclosure with the provision of entry from outside open air.

Alternative Power Supply:

Arrangements shall have to made to supply power with the help of a 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 places of assembly of the building in case of normal power failure.

10. DETECTION AND ALARM SYSTEM :

1. Manually operated Electrical Fire Alarm system with at least two numbers of break glass type call boxes fitted with Hooters along with public address system, at each floor connecting 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 conforming to I.S 2189-1988.

2. Hooters will be sounded in such a manner so that an operation of a Detector or a Manual Call Point Hooter shall be sounded on the same floor and immediate alternate floor.

11. FIRST AID FIRE FIGHTING SYSTEM:

First Aid firefighting 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. 2190-92.

12. GENERAL RECOMMENDATIONS:

1. Fire license shall have to be obtained for proposed storing and processing with LPG and other combustible articles (if any).

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

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

5. 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 times.

6. A crew of trained Firemen under an experience officer shall be maintained round the clock for fire safety of the building.

7. To eliminate risk of Fire Hazards, Good House Keeping both for insides and outside of the building shall be strictly maintained.

8. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the building.

ON compliance of all the above Fire and Life Safety Recommendation, the Director General, West Bengal Fire and 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 installations of the building.

XI B. Any deviation and changes the nature of use of the building in respect to 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

Signature Not Verified
Digitally signed by SANKAR
SANKAR
Date: 2019.04.20 15:46:49 IST