

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIRECTOR GENERAL  
WEST BENGAL FIRE & EMERGENCY SERVICES  
13-D Mirza Ghalib Street, Kolkata- 700 016**

Memo No : IND/WB/FES/20192020/11848

DATE: 17/04/2017

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

**To :**  
**PANKAJ MUKHERJEE , ANUP PURKAYASTHA AND Others**  
**R.S Plot No- 853,844/4937,5006(P),4512,842/5006 , L.R Plot No-631,640,641,4427**  
**R.S. Khatian No-2696,2697,2698, L.R. Khatian No-3060 TO 3063,3081,2921,**  
**J.L.No. - 58 , Mouza- Bamunara Under G.P-Gopalpur , , P.S- Kanksa, Pin-**  
**713212 P.O – Bamunara, Dist- Paschim Burdwan.**

**Sub :Fire Safety Recommendation for a proposed construction of G+11 storied building under group Residential at the premises no.- 31, 36 , 38 , 39 , 43, 44 , R.S Plot No- 853,844/4937,5006(P),4512,842/5006 , L.R Plot No-631,640,641,4427 R.S. Khatian No-2696,2697,2698, L.R. Khatian No-3060 TO 3063,3081,2921, J.L.No. - 58 , Mouza- Bamunara Under G.P-Gopalpur , , P.S- Kanksa, Pin- 713212 P.O – Bamunara, Dist- Paschim Burdwan.**

This is in reference to your Application No. IND/WB/FES/20182019/11848,dated-12/03/2017, regarding the Fire Safety Measure for a proposed construction of G+11, storied building under group Residential at the premises no- 31, 36 , 38 , 39 , 43, 44 R.S Plot No.-853,844/4937,5006(P)4512,842/5006 , L.R Plot No-631,640,641,4427, R.S. Khatian No- 8441/4937 AND L.R. Khatian No-3060 TO 3063,3081,2921, J.L. No. - 58 , Mouza- Bamunara ,Under G.P-Gopalpur , P.S- Kanksa, Pin- 713212 P.O – Bamunara, Dist- Paschim Burdwan.

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 afore said 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.The interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.
- 3.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.
- 4.Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.

#### 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 5M respecting abutting the road.

#### 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 one staircase enclosures at first 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 open able in the direction of escape.

#### FIRE FIGHTING WATER:

Underground water having capacity of 86200 ltrs. and Overhead water reservoir of 25000 ltrs. In the building capacity exclusively for Fire Fighting purpose with

replenishing arrangements @1000 lts/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.

#### HYDRANT SYSTEM :

1.The building shall be provided with own comer of 100m. 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 at the ground floor level outlet and minimum 450 Lts./min. at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kgs/cm<sup>2</sup>. All other requirements shall conform I.S. 3844 – 1989.

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

#### 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 CO<sub>2</sub> / D.C.P auto modduler system & 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.

#### DETECTION AND ALARM SYSTEM :

1.Auto Fire Alarm system with analogue addressable smoke / Heat detector shall have to be installed at basement and commercial area of the buildings.

2.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.

3. 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.

#### PUBLIC ADDRESS SYSTEM:

Public address system linked between all floors and Control Room shall have to be established.

#### AIR CONDITIONING SYSTEM (If any):

1. The A.H.U shall be separated for each floor with system Air Ducts for individual floors.

2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning system.

#### REFUGE FLOOR:

1. The Refuge floor area is not less than 1.5sqm. area shall be provided on the external wall as cantilever projection or any other suitable means at above 24.874m., stair landing and additionally shown/marked in the plan.

2. The Refuge area shall be of Fire resisting construction and shall be protected with self-closing F.C.D at the entrance from the corridors at staircase lobbies.

3. The position of refuge area shall be such so that they are negotiable by the Fire Service Ladder from the Ground .

#### 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. 2190-92.

#### 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.

9. The Fire Safety Recommendation is to be obtained from the Director General, West Bengal Fire & Emergency Services, performance of all life & Fire Safety arrangements and installation of the buildings.

N.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 Certificate will be treated as cancelled.

**Director**  
**West Bengal Fire & Emergency Services**

Signature Not Verified  
Digitally signed by ABHIJIT  
PANDEY  
Date: .30 15:54:09 IST