



**Government Of West Bengal**  
**Office Of The Divisional Fire Officer, Bankura**  
**West Bengal Fire & Emergency Services**  
**Purulia Fire Station, Ranchi Road, Purulia, Pin:- 723101**

Memo no.: FSR/0125186237800236

Date: 15-09-2023

**From:**  
**Divisional Fire Officer, Bankura**  
**West Bengal Fire & Emergency Services**

**To: MUKESH KUMAR AGARWALA**  
Midnapore road, Bishnupur, Mauza- Turki Sitarampur, J.L No- 100, Khatian No- 742, Plot No- R.S Dag No-137, L.R-  
Dag No- 428, 428/842, Ward No- 16, Holding No- 306/B/7/1, P.S- Bishnupur, Dist- Bankura, Pin -722122.

**Sub: Fire Safety Recommendation for the occupancy of proposed B+G+4 storied building under group Residential building in the name is "MUKESH KUMAR AGARWALA" at the premises No- Midnapore road, Bishnupur, Mauza- Turki Sitarampur, J.L No- 100, Khatian No- 742, Plot No- R.S Dag No-137, L.R- Dag No- 428, 428/842, Ward No- 16, Holding No- 306/B/7/1, P.S- Bishnupur, Dist- Bankura, Pin -722122.**

This is in reference to your application no. 0125186237800236 dated 11-09-2023 regarding the Fire Safety Recommendation for the occupancy of proposed B+G+4 storied building under group Residential building in the name is "MUKESH KUMAR AGARWALA" at the premises No- Midnapore road, Bishnupur, Mauza- Turki Sitarampur, J.L No- 100, Khatian No- 742, Plot No- R.S Dag No-137, L.R- Dag No- 428, 428/842, Ward No- 16, Holding No- 306/B/7/1, P.S- Bishnupur, Dist- Bankura, Pin -722122.

**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 Residential 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 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.

**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 and all internal roads width shall not be less than 4.5m and 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.

#### C.STAIRCASE & LIFT :-

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 4 hours.

2.The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules .

3.The walls of the lift enclosure shall be at least two hours Fire resisting type. The FCD shall be of at least one our fire resisting wire glass window fitted with self closing type open able in the direction of escape. Collapsible gate shall not be permitted.

#### D.FIRE FIGHTING WATER:

1.Under ground water reservoir exclusively for Fire Fighting operation shall be ensuring minimum 50,000 lts. Capacity shall have to be provided. Over head reservoir of 10,000 ltrs. capacity shall be provided in case of negative suction.

2.The fire water reservoir shall have overflow arrangement with the domestic reservoir to avert stagnancy of water.

3.Provision of necessary manhole shall be made on the top of the reservoir as per specification.

4.Provision of replenishment at the rate of at least 1000 lts. /min. from two separate sources of water supplies shall be made.

5.The deep tube wells for the replenishment of the reservoir shall be incorporated with the auto starting facility with the actuation of auto detection and suppression arrangement of the premises and shall also be connected with dual power supply units.

6.Provision placing Fire Appliances on the underground water reservoir shall have to be made to draw water in case of emergency.

#### E.WATER LAYOUT SYSTEM:-Wet Riser, Sprinkler & Hose Reels System:

1. The building shall be provided with Wet Riser and Hose Reel unit with provision of outlets covering the entire building as per suitable at the rate of one such unit of Wet Riser and Hose Reel per 1000 sq.m. of floor area.

2. The Wet Riser installation shall be made in reference to the height of the building in stage wise distributions. Ground to top 100 mm. dia Hydrant Outlet.

3. Hose Reel unit:-provision of Hose reel units on swiveling drum in conjunction with wet riser near each landing valves shall be made at each floor level of the building.

4. Sprinklers: Parking areas of the building shall be protected by sprinkler system as per I.S. Specification.

5. All other requirements of the water base Fire Protection System shall be made as per I.S. Specification 3844-1989 (with up to date amendment).

6. Fire service inlet shall be installed on the entrance of the building.

7. The Electrical installation viz. transformer, HT, LT switch gear etc. shall be protected by CO2/DCP fire extinguishers as per suitability.

#### F.FIRE PUMP:

1.1250 Lts. Per min. giving a pressure not less than 0.3N/m<sup>2</sup>. The pump provided will be of multi stage type with suction

and delivery size not less than 15 cm. dia. A set ball valve to supply the tank with at least 1250 ltrs. Per minute from the fire pump.

2.A stand by pump of equal capacity shall be provided preferably be diesel driven. Provision of Jockey pump have to be made to keep up the water based system under pressurized condition at all the time.

#### G.ELECTRICAL DISTRIBUTION SYSTEM:

1.Electrical distribution system of all the building shall be made in the form of concealed wiring or in heavy gauge M.S. conducted continuously bonded to earth cables shall be I.S. marked and preferably be F.R.L.S. categories.

2.Electrical distribution system shall conform all the requirement laid down in I.S. 1646-1982.

3.For every 23V wiring above false ceiling 660 grade insulated cable shall be used. Transformer switch gear H.T., L.T. and other electrical rooms shall be at the ground floor level and other electric rooms shall be at least 4 hrs. Fire resisting capacity, adequate ventilation arrangement shall have to be made in all the rooms, Dry and explosion proof type shall preferably be installed.

4.All electrical installation viz. Transformers, Switch Gears, L.T., H.T. rooms shall be protected with both auto detection and suppression system as per suitability.

##### 5. Alternative Power Supply :

Arrangement shall be made to supply power with the help of a generator to operate at least the Fire pump, Pump for the 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.

#### H.DETECTION & ALARM SYSTEM :

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

2.Auto fire detection system with the help of Smoke detectors in adequate quantity shall have to be installed.

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

##### 4.Public Address System :-

5.Public address system linked in the factory shed and Control Room shall have to be established.

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

1.The A.H.U. shall be separated for each floor with the 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.

3.The system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.

4.The air handling units room shall not be used for storage of any combustible materials.

#### J.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.

#### K.GENERAL RECOMMENDATIONS :

- 1.Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.
- 2.Sleeping accommodation shall not be allowed in the commercial area.
- 3.Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
- 4.Floor numbers and directional sign of escape route shall be displayed prominently.
- 5.The employees and security staff shall be conversant with installed Fire Fighting equipments of the building and to operate in the event of Fire and Testing.
- 6.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.
- 7.Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.

On compliance of all the above Fire and Life safety recommendations, the Director General West Bengal Fire & 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 installation of the building.

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 Recommendation will be treated as cancelled.

Signature valid

Digitally Signed.  
Name: PLABAN MOJDA  
Date: 15-Sep-2023 09:06:06  
Reason: Approved  
Location: West Bengal

Divisional Fire Officer Bankura  
Division. (Bankura), Bankura  
West Bengal Fire & Emergency Services