



**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/0125186247800006

Date: 25-01-2024

**From:**

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

**To: Proposed Residential Building of Smt. Soma Samanta And Sri. Prasanta Kumar Pal.**  
**Proposed B+G+IV Storied Residential Building At R.S And L.R Plot no. 391, Kh. no. 375, 2953, J.L no.217, Mouza Ailakundi, Under Anchuri G.P, And Bankura Z.P, P.O Paschim Sanabandh, P.S Bankura, Dist. Bankura, Pin-722102.**

**Sub: Fire Safety Recommendation for a proposed construction of LG+UG+IV storied building under group Residential in the name & style as "Smt. Soma Samanta And Sri. Prasanta Kumar Pal" at the premises of R.S And L.R Plot no. 391, Kh. no. 375, 2953, J.L no.217, Mouza Ailakundi, Under Anchuri G.P, And Bankura Z.P, P.O Paschim Sanabandh, P.S Bankura, Dist. Bankura, Pin-722102.**

This is in reference to your application no. 0125186247800006 dated 11-01-2024 regarding the Fire Safety Recommendation for a proposed construction of LG+UG+IV storied building under group Residential in the name & style as "Smt. Soma Samanta And Sri. Prasanta Kumar Pal" at the premises of R.S And L.R Plot no. 391, Kh. no. 375, 2953, J.L no.217, Mouza Ailakundi, Under Anchuri G.P, And Bankura Z.P, P.O Paschim Sanabandh, P.S Bankura, Dist. Bankura, Pin-722102.

**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:**

**CONSTRUCTION:**

1. The whole construction of the existing 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. Arrangement shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate fire resisting capacity.

**OPEN SPACE AND APPROACH:**

1. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting 45M.T.
2. All the Passage way should be kept clear for free access.

**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 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.

#### **FIRE FIGHTING WATER:**

Underground water reservoir having water capacity of 30,000 ltrs. and overhead water reservoir having capacity of 10,000 ltrs. exclusively for fire-fighting purpose with replenishing arrangements @ 1000 ltrs/min. preferably from two different sources of water supply shall be provided. The water reservoirs 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 time.

#### **HYDRANT SYSTEM:**

1. The building shall be provided with Down Comer along with Hose Reel Hose connected to terrace tank through the terrace pump capacity of 900 LPM with providing one 100 mm. internal diameter pipe line with provision of landing valves at the half landing/ landing of all floor. The system shall be so designed that shall be kept charged with water all the time under pressure and one stand by pump at same capacity shall also be installed. In both cases the running pressure shall not be less than 2kg/ sq.cm. All other requirements shall confirm I.S. 3844-1989.

2. Provision of Hose Reel in conjunction with down comer shall be made at floor level confirming relevant I.S. specifications.

3. Proper replenishing arrangements shall have to be made to keep the overhead water reservoir full at all-time.

4. Provision of two way collecting head for uses of Fire Service must be provided at the entrance of the building.

#### **Automatic Sprinkler Installation:**

1. Inside Lower Ground & Upper Ground floor areas of the building shall be suitable protected by automatic Sprinkler installation conforming the grade as per I.S. Specification.

#### **FIRE PUMP:**

1. Provision of the 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 roof of the building, one such pump shall always be kept as stand by pump.

#### **ELECTRICAL INSTALLATION AND DISTRIBUTION:**

1. The electrical installation including Transformers, Switch Gear, 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. specification.

2. The vertical and horizontal electrical ducts shall be sealed at each floor level by fire resisting materials.

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

4. Arrangement for alternative power supply shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Deep Tube-Well Pump, Fire Alarm System etc. and also for illuminating the Staircase, Corridors, Lobbies etc. and other places of assembly of the building in case of normal power failure.

#### **DETECTION AND ALARM SYSTEM:**

1. Manually operated Electrical Fire Alarm system with 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. 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.

3. Auto Fire Alarm System which analogue addressable smoke heat detectors as per suitability shall be installed in all floor area of the building.

#### **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 combustibile materials.

**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 @ two nos. competent type extinguisher per 100m<sup>2</sup> (one hundred square meter).

**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. Directional sign of escape route shall be displayed prominently.
  3. The employees and security staffs shall be conversant with installed 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. A crew of trained Fireman shall be maintained round the clock for safety of the building.
  6. Mock Fire practice and Evacuation Drill shall be performed periodically with participation of all occupants of the building.
- On compliance of all the above Life and Fire Safety Recommendation, the Director General, West Bengal Fire & Emergency Services shall be approved for necessary inspection and testing of all 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.

Validity unknown

Digitally Signed  
Name: PLABAN MOHANTY  
Date: 25-Jan-2024 10:48:22  
Reason: Approved  
Location: West Bengal

Divisional Fire Officer Bankura  
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West Bengal Fire & Emergency Services