



Government Of West Bengal  
Office Of The Divisional Fire Officer, Jalpaiguri  
West Bengal Fire & Emergency Services  
Jalpaiguri Fire Station, Race Course Para,  
P.O. & P.S. :- Jalpaiguri, Pin:- 735101

Memo no.:FSR/0125186237900409

Date: 31-10-2023

From:  
Divisional Fire Officer, Jalpaiguri  
West Bengal Fire & Emergency Services

To: SRI. KAMAL PERIWAL & SMT. SUPRIYA PERIWAL  
MOUZA- DABGRAM, PARGANA- BAIKUNTHAPUR, KHATIAN NO- R.S. 681/8, 681/11, 681/13, 681/17 L.R. 175, 176 (OLD), 205, 206 (NEW), PLOT NO- R.S. 58/151, L.R. 3, SHEET NO- R.S. 4, L.R. 31, J.L. NO- 02, WARD NO- 41 (S.M.C.), HOLDING NO- 360/2/1/473, BOROUGH NO- 05, P.S.- BHAKTINAGAR, DIST- JALPAIGURI

Sub: Fire Safety Recommendation for proposed construction of G+IV Residential Building at MOUZA- DABGRAM, PARGANA- BAIKUNTHAPUR, KHATIAN NO- R.S. 681/8, 681/11, 681/13, 681/17 L.R. 175, 176 (OLD), 205, 206 (NEW), PLOT NO- R.S. 58/151, L.R. 3, SHEET NO- R.S. 4, L.R. 31, J.L. NO- 02, WARD NO- 41 (S.M.C.), HOLDING NO- 360/2/1/473, BOROUGH NO- 05, P.S.- BHAKTINAGAR, DIST- JALPAIGURI

This is in reference to your application no. 0125186237900409 dated 06-10-2023 regarding the Fire Safety Recommendation for proposed construction of G+IV Residential Building at MOUZA- DABGRAM, PARGANA- BAIKUNTHAPUR, KHATIAN NO- R.S. 681/8, 681/11, 681/13, 681/17 L.R. 175, 176 (OLD), 205, 206 (NEW), PLOT NO- R.S. 58/151, L.R. 3, SHEET NO- R.S. 4, L.R. 31, J.L. NO- 02, WARD NO- 41 (S.M.C.), HOLDING NO- 360/2/1/473, BOROUGH NO- 05, P.S.- BHAKTINAGAR, DIST- JALPAIGURI

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) No further construction works of the building will be allowed to be done without the concurrence of this department.
- 2) The Staircases should be from the terrace of ground floor of the building and the travel distance should be within 22.5 mts.

**B) OPEN SPACE & APPROACH**

- 1) The open space available in the building will be kept free of obstruction at all time.
  - 2) The escape routes of the building should be kept free from any obstruction.
  - 3) The entrance route of the building should not be obstructed by any way.
- C) Ventilation:-
- 1) Sufficient Ventilation should be kept in the processing area, storing area and other areas of the building.
- D) Site drainage:-
- 1) Drains to be clear of the building. Drain capacity to be sufficient to cope with the water used for fire fighting, as well as for normal process work.
- E) Adjacent fire risk :-
- 1) This risk to be avoided by keeping open space in between the buildings.
- F) Means of escape:-
- 1) Separate entrance and exits should be provided in every room of the Nursing Home building.
- G) Gas Bank:-I: 6044-2000:- In case of any cooking gas bank, the same should be installed conforming S/L41.5 & 4.1.6 of the aforesaid IS code of practice and should be obtained the fire license u/s 12 of fire service Act. After getting final NOC of the building.
- H) Electrical Installation I.S1646-1982 & NBC part-iv :-
- 1) All electrical wiring to be replaced as per the National Electrical Code & Part- vii 'Building Service' section 2 'Electrical installation' good practice[4(10)].
  - 2) All electrical cable should be FRLS type & all wiring should be done by the copper wire along with appropriate gauge such as 1.2sq.mm for light, fan, bulbs etc. 2.5sq.mm for freeze, tv & 4sq.mm for geyser, washing machine etc.
  - 3) Electrical installation shall be tested for periodically by the licensed electrician where as 85% fire originates from electrical source of energy.
- I) FIRE FIGHTING WATER:-
- 1) The building shall have to be equipped with minimum 20,000 lts of underground stored water & having replenishing arrangement @ 1000 lts./min preferably from two different sources. The height of the reservoir should not be exceeding 30cm from the ground level fire water reservoir shall have overflow and connected with the other reservoir to avoid stagnancy of water. The water reservoir shall be kept full at all time.
  - 2) The location of the reservoir should be such so that fire service vehicles may get access to the site of the reservoir with a view to drawn the water from the said reservoir.
- J) DETECTION & ALARM SYSTEM, suppression system and public address system: IS:2189:1988:-
- 1) Manually operated electrical fire alarm system of break glass type call boxes with hooters, public address system and talk back system should be installed in different vulnerable points of the building and the storage area.
- K) Pumps for firefighting Water I:S 12469:1988:-
- 1) Fire pump should be installed and arranged in such a manner so that it will start automatically due to fall in pressure as prefixed in the installation by installing a jockey pump.
  - 2) All the pumps shall be so designed as to supply water at the designed pressure and discharge into the water based system which shall be installed in the building.
  - 3) One such pump shall always be kept on standby preferably be of diesel driven type.
  - 4) Provision of jockey pump shall also be made available to keep the water based system under pressurized condition at all times.
  - 5) All the pumps shall be incorporated with normal and auto starting facilities, the suction of the pump shall preferably positive type or incase of negative suction the system shall be wet riser-cum-down-comer-with suitable terrace pump fitted with over head tank.
- L) External Hydrant system IS:13039:1991:- The whole area of the factory building should be protected by the Pillar type hydrant with nearby hose boxes and branch pipe etc. i.e.@ one pillar type hydrant per 1000 sq.meters of floor area or as per the vulnerability of the area.

M) Terrace tank: - One terrace tank of capacity minimum 5000 lts should be installed in the premises of the building along with suitable terrace pump & wet riser-cum-down-comer system.

N) Hose Reel Hose System IS: 884:1985:- This system should be installed inside the building as well as in the overall area. The internal dia of the said hose reel shall be 19 mm to 32mm and the discharge capacity not less than 22.5 lts per minutes. While the length of the hose reel not more than 36.5 meters. The distance of such installation should be in such a way so that no part of the floor is more than six meters distance from a hose nozzle when fully extended.

O) Small Gears IS903:1993:- Hose box , 15 meters permoline delivery hose & gun metal type short branch of half inch dia @ one such set each at the or near all pillar hydrant, landing valves on all area should be installed.

P) ALTERNATE POWER SUPPLY :

1) Arrangement shall have to be made to supply of power with the help of generator to operate at least fire pump, illumination of escape routes, detection system with hooters, fire installation system etc.

Q) In case of lift:-

i) The wall of the lift enclosures shall be at least two hour fire resisting type and collapsible gate shall not be permitted. The lift materials should be four hours fire resisting type, the door of the lift should be one hour fire resisting type, the landing door should be half hrs fire resisting type and the area of the lift car should be minimum 1.4 sq. mts.

ii) The load bearing capacity of the lift should be minimum 554 kg each.

iii) In case of failure of normal power supply it shall be automatically trip over the alternate power supply. This change over the power supply could be done through manually also be change over switch alternatively. The lift shall be so wired that in case of power failure, it comes down at the ground level and comes to stand still with the door open.

iv) A sign shall be posted and maintained on every floor at or near the lift indicating that in case of fire the occupants shall use the staircase unless instructed otherwise. The sign also contain a plan for each floor showing location of the staircase.

R) FIRST AID FIRE FIGHTING SYSTEM:- 2190:1992

1) First Aid Fire fighting arrangement in the style of placing suitable type of portable fire extinguishers, of different types, fire buckets, etc. should be installed in all vulnerable locations of the premises of the office, factory, storage area and other places in accordance with the I.S code of practice.

16) A register for the recording of mock drill and evacuation drill, testing and maintenance of equipments, electrical installation etc. Should be maintained and shall be liable to procedure the same the authorized officer of this department on demand.

17) Protection of personnel and provision of means of escape to be provided to avoid being exposed to or being trapped in fire or toxic fumes.

18) Elimination of all avoidable sources of ignition and confining all unavoidable sources of ignition.

19) Segregation of hazardous area should have flameproof fittings with spark arrestors fitted in the exhaust pipe with fire extinguishers of the appropriate type.

Signature Not Verified

Digitally Signed  
Name: DEBANU BASU  
Date: 31-Oct-2023 17:44:40  
Reason: Approved  
Location: West Bengal

Divisional Fire Officer, Jalpaiguri Division, Jalpaiguri  
West Bengal Fire & Emergency Services