



**Government Of West Bengal
Office Of The Divisional Fire Officer
West Bengal Fire & Emergency Services
Station Feeder Road, P.O & P.S Siliguri,
District: Darjeeling, Pin - 734005**

Memo no.:FSR/0125186230800316

Date: 02-02-2024

From:

**Divisional Fire Officer
Darjeeling Division (Member Convenor)
West Bengal Fire & Emergency Services**

**To: DIPAK KUMAR AGARWALA & OTHERS (Developed by Adarsh Developer)
MOUZA-ENGLISH BAZAR, JL.NO-67, KH.NO-LR-161,162,2105,4314,4315,4316,4210, DAG NO-LR-
481,482,491,492,522, ENGLISH BAZAR , MALDA, WARD NO-10 UNDER ENGLISH BAZAR MUNICIPALITY.**

Sub: Fire Safety Recommendation of Proposed construction of G+6 storied residential Building under group of Residential in the name of DIPAK KUMAR AGARWALA & OTHERS (Developed by Adarsh Developer) at the Premises no MOUZA-ENGLISH BAZAR, JL.NO-67, KH.NO-LR-161,162,2105,4314,4315,4316,4210, DAG NO-LR-481,482,491,492,522, WARD NO-10 UNDER ENGLISH BAZAR MUNICIPALITY ENGLISH BAZAR , MALDA,, PIN-732101,

This is in reference to your application no. 0125186230800316 dated 29-12-2023 regarding the Fire Safety Recommendation of Proposed construction of G+6 storied residential Building under group of Residential in the name of DIPAK KUMAR AGARWALA & OTHERS (Developed by Adarsh Developer) at the Premises no MOUZA-ENGLISH BAZAR, JL.NO-67, KH.NO-LR-161,162,2105,4314,4315,4316,4210, DAG NO-LR-481,482,491,492,522, WARD NO-10 UNDER ENGLISH BAZAR MUNICIPALITY ENGLISH BAZAR , MALDA,, PIN- 732101,

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 proposed building shall be carried out as per approved plan drawing conforming relevant building rules of local administrative body.
- 2.The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specification.
- 3.Provision of ventilation at the crown of the central core-duct of the building shall be provided.

4. Arrangement shall have to be made for sealing all the vertical ducts by the materials of adequate fire resisting capacity.

OPEN SPACE & APPROACH

1. The open space surrounding the buildings shall conform the relevant building rules as well as permit the accessibility and manoeuvrability of fire appliances with turning facility having minimum 6.5 M width in each side.
2. The approach roads shall be sufficiently strong to withstand load of fire engine weighing up to 45 M.T.
3. The width and height of the access gates into the premises shall not be less than 5M and 5M respectively abutting the road.
4. Drive way should be free from any type of obstruction. No parking will be allowed on the drive way.
5. 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 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 marked in the plan. Corridors and the exit doors shall conforming the relevant building rules which upto date amendment.
- 4) All the staircases shall be extended upto terrace of the building and shall be negotiable to each other without entering into any room.

LIFT

- 1) Walls of all lift enclosures shall have a fire rating of two hours; lifts shafts have a vent area not less than 0.2 M²
- 2) Lift Motor Room shall be located preferably on top of the shaft and separated from the shaft by the floor of the room.
- 3) Landing doors in all lift enclosures shall have a fire resistant of not less than half hour.
- 4) All Lift Car door shall have a fire resistance rating of half an hour.
- 5) Exit from the lift lobby, if located in the core of the building, shall be through a self closing smoke stop door of half an hour fire resistance.
- 6) Grounding Switch(es), at ground floor level shall be provided on all the lifts to enable the fire service to ground the lifts..
- 7) Fire Lift marked in the plan with the following specification – to enable fire services personnel to reach the upper floors with the minimum delay, and shall be available for the exclusive use of the firemen in an emergency.
- 8) The lift shall have a floor area of not less than 1.4 m². It shall have landing capacity of not less than 545 Kg (8 persons

lift) with automatic closing doors of minimum 0.8 mm width.

9) In case of failure of normal electric supply, it shall automatically trip over to alternate supply. This changeover of supply could be done through manually operated changeover 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 door open.

FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 50000.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.

Wet Riser System IS:3844

100 mm dia riser with single out let landing valve shall have to be provided.

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. Transformer to be protected by High Velocity Water Spray Projection System as per relevant I.S. specification.
5. 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.

Pumps for fire fighting Installation (IS 12469:1988):-

- i) The standard code of practice recommended that all water based fixed firefighting installations should be fed by two separate automatic pumps, one of which should act as stand by. Each pump should be designed to deliver water at required pressure and discharge, taking into account the height and volume of the building.
- ii) The Fire pumps should be provided near the underground static water storage tank with minimum pressure of 3.5 kg. / sq. cm. at terrace level or farthest point.
- iii) One electric and one diesel pump of capacity 1620 LPM and One electric pump of capacity 180 LPM should be installed .
- iv) The pumps should be installed and arranged in such manner so that it will start automatically due to fall in pressure as prefixed in the installation by installing a Jockey pump. Provision of Jockey pump shall also be made to keep the water-based system under pressurized condition at all times.
- v) 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 buildings.
- vi) All the pumps shall be incorporated with both manual and auto starting facilities .

ALTERNATE POWER SUPPLY

Arrangement shall have to be made to supply of power with the help of generator to operate at least fire pump, illumination of staircase, corridors etc. and other places of assembly area in case of normal power failure.

HOSE REEL SYSTEM (IS 884:1985):-

i) Provision for Hose Reel in conjunction with wet riser shall be made at each floor of the building level from the underground reservoir through main pump conforming the relevant I.S. specification.

ii) The Hose reel hose system should be provided at each floor of the buildings. The internal dia of the said hose reel shall be 19 mm to 32 mm and the discharge capacity not less than 22.5 LPM. While the length of the hose reel not more than 36.50 meters. The distance of such installation should be in such a way that no part of the floor is more than 6 meters distance from a hose nozzle when fully extended.

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.

GENERAL RECOMMENDATIONS:

- 1.Fire notice for firefighting and evacuation from the building shall be prepared and be displayed at all vulnerable place of the building as per clause 4.11 Annex D of N.B. Code.
- 2.Floor number and direction sign of escape shall be displayed prominently as per clause 4.11 Annex D of N.B. Code.
- 3.The employees and security staff shall be conversant with installed firefighting equipment of the building on to operate in the event of fire and testing as per clause 4.11 Annex D of N.B. Code.
- 4.Arrangement shall be made for regular checking, testing and proper maintenance of all the fire safety installation and equipment installed in the building to keep them in perfectly good working conditions at all times.
- 5.Mock fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
- 6.Considering the gravity of growing hazard in the township, a crew of trained firemen under one experienced officer shall be maintained round the clock along with water tender (type-B) conforming I.S. 948 : 1983.

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.

Signature valid

Digitally Signed.
Name: DEBTANU BASU
Date: 02-Feb-2023 11:55:23
Reason: Approved
Location: West Bengal

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