



Government Of West Bengal  
Office Of The Director General  
West Bengal Fire & Emergency Services  
13D, Mirza Ghalib Street, Kolkata - 16

Memo no.:FSR/0125186231500030

Date: 14-03-2023

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

To: SRI MONOJ SAHOO, SRI ANUP SAHOO, SRI DIPAK SAHOO  
SANJAL, P.O.- KHARAGPUR, P.S.- KHARAGPUR TOWN, DIST.-PASCHIM MEDINIPUR WITH WARD NO-24, ON R.S.  
PLOTNO.319P,320,321,323,324, L.R. PLOT NO. 1178,1179, MOUZA-SANJAL,UNDER KHARAGPUR MUNICIPALITY.,  
PIN - 721457

Sub: Fire Safety Recommendation in respect of Proposed B+G+IV Storied two nos. Block namely Block-1 and Block-2 of Residential Apartment Building having Common Basement under group residential building establishment at Sanjal, P.O- Kharagpur, P.S-Kharagpur (T) , Dist.- Paschim Medinipur , on R.S.- Plot No.- 319 (P), 320,321,323 and 324, L.R- Plot No.- 1178,1179,Mouza- Sanjal, J.L No.-312, P.S-Kharagpur (T) , Dist.- Paschim Medinipur with in Ward No.- 24 of Kharagpur Municipality

This is in reference to your application no. 0125186231500030 dated 10-02-2023 regarding the Fire Safety Recommendation in respect of Proposed B+G+IV Storied two nos. Block namely Block-1 and Block-2 of Residential Apartment Building having Common Basement under group residential building establishment at Sanjal, P.O- Kharagpur, P.S-Kharagpur (T) , Dist.- Paschim Medinipur , on R.S.- Plot No.- 319 (P), 320,321,323 and 324, L.R- Plot No.- 1178,1179,Mouza- Sanjal, J.L No.-312, P.S-Kharagpur (T) , Dist.- Paschim Medinipur with in Ward No.- 24 of Kharagpur Municipality

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 building shall be carried out as per approved plan drawings Conforming the relevant building rules of local Municipal Body.
2. The floor area exceeds 750m<sup>2</sup> shall be suitably compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity.
3. The interior finish decoration of the building shall be made low flame spread materials conforming I. S. specifications.





4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
5. Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting Fire resisting capacity.

**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 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 Mtr. respecting the abutting road.

**C. 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 staircases shall be made as marked in the plan. Corridors and the exit doors shall Conforming the relevant building rules with up-to-date amendments.
4. All the staircase shall be extended up to terrace of the building and shall be negotiable to each floor.
5. Fire Check Door at the entrances of all the Staircase enclosures as marked in the plan at each floor level of each Block shall be provided.
6. All exits, staircase, staircase landing shall be kept free from any obstruction for smooth evacuation of the people on any emergency.

**D. BASEMENT :**

- 1)The basement shall be adequately ventilated.
- 2)Basement shall not be used for other purpose except car parking.
- 3)The basement shall be protected Auto Sprinkler System, Hydrant System and Hose Reel System as per requirement.
- 4)Mechanical extractor for smoke venting system from lower/upper basement levels shall also be provided. The system shall be of such design as to operate on actuation of heat/smoke sensitive detector or sprinkling. It shall also have an arrangement to start it manually.
- 5)Mechanical extractors shall have an alternative source of supply.

**E. LIFT :**

1. The walls of the lift enclosure shall be at least two hours Fire resisting type. Collapsible gate shall not be permitted.
2. All the lift shall be designed for Fire Lift. The word "FIRE LIFT". Shall conspicuously written at ground floor.





F. FIRE FIGHTING WATER :

1. Over Head Water Reservoir having water capacity of 40,000 ltrs. Exclusively for Fire fighting purpose with replenishing arrangements @ 1000 lts./min. Preferably from two different sources of water supply shall be provided. The water reservoir 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.

3. Provision of standard Hose Reel Hose supplied from the overhead or underground reservoir through Booster pump shall have to be made in all the floor of the building satisfy the code of I.S. 3844- 1989.

G. HYDRANT SYSTEM :

1. Provision of standard Hose Reel Hose in conjunction with Wet Riser supplied from the overhead reservoir through Booster Pump of 900 LPM shall have to be made in the all floors of the building satisfy the code of I.S. 3844-1989.

2. The building shall be provided with Down comer connected to terrace tank through the terrace pump at 900 LPM capacity and provided one 100 mm. internal diameter pipe line with provision of landing valves at the Staircase landings/half landings at the rate of one such Down comer cum Riser for 1000 Sq.m. of floor area. The system shall be so designed that shall also be installed. 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.

3. Provision Of Fire Service Inlet shall be installed the building in accordance with relevant I.S. specification.

4. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.

H. FIRE PUMP :

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 building. One such pump shall always be kept on stand-by preferably be of diesel driven type.

The suction of pumps shall preferably be of positive type or in case of negative suction the system shall be wet riser-cum-down comer with suitable terrace pump with overhead tank. Level switch to be provided so that the Bore well/Deep tube well will automatically start after lowering down the water level of O.H.W.R. after a specific level.

I. 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. Specification 1946-1982.

2. The vertical & Horizontal ducts shall be supply sealed at alternative floor level.



3 The electrical installation shall be adequately protected with CO2/D.C.P. extinguisher.

4 Alternative Power Supply :

Arrangements shall have to be 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, Fire Lift etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure building in case of normal power failure.

#### AIR CONDITIONING SYSTEM ( IF ANY ) :

1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floor.
2. Arrangement shall be made for isolation at the strategies location by incorporating auto damper 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.

#### K. FIRST AID FIRE FIGHTING SYSTEM :

First Aid Fire Fighting arrangements 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.

#### L. 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. Fire Notice for fire fighting and evacuation from the building shall be prepared and be displayed at an vulnerable places of the building.
  3. Floor numbers and directional sign of escape routes shall be displayed prominently.
  4. The employees and 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 Fireman shall be maintained round the clock for safety of the building.
  7. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of Building.
  8. A certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Life and Fire Safety arrangements and installation of the 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, Final N.O.C. in favor of the occupancy shall be issued on being satisfied with the tests and performance 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

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Director  
West Bengal Fire & Emergency Services

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