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**Government Of West Bengal**  
**Office Of The Divisional Fire Officer, Murshidabad**  
**West Bengal Fire & Emergency Services**  
**C. R. Das Road, P.O.+P.S. :- Berhampur, Pin :- 742101**

Memo no.:FSR/0125186230900310

Date: 22-01-2024

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

**To: SWAPNABHUMI V**  
**PLOT NO- 650, R.S KHATIAN NO- 639, 653, L.R KHATIAN NO - 9692, J.L. NO- 102, MOUZA- COSSIMBAZAR, P.S.-**  
**BERHAMPOUR, P.O- COSSIMBAZAR, DIST.- MURSHIDABAD, PIN NO- 742102**

**Sub: Fire Safety Recommendation for an existing construction of G+VI storied under group Residential Building named as "SWAPNABHUMI-V" at the Plot No.650, R.S. Kh No.-639, 653, L.R. Kh.No.-9692; J.L.No.-102, Mouza- Cossimbazar; P.S-Berhampur; P.O.-Cossimbazar, Dist.-Murshidabad Pin-742102.**

This is in reference to your application no. 0125186230900310 dated 29-12-2023 regarding the Fire Safety Recommendation for an existing construction of G+VI storied under group Residential Building named as "SWAPNABHUMI-V" at the Plot No.650, R.S. Kh No.-639, 653, L.R. Kh.No.-9692; J.L.No.-102, Mouza- Cossimbazar; P.S-Berhampur; P.O.-Cossimbazar, Dist.-Murshidabad Pin-742102.

**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 interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
- 2.Provision of ventilation at the crown of the central core-duct of the building shall be provided.
- 3.Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate 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 30 M.T.

3.The width and height of the access gates into the premises shall not be less than 4.5M and 5 M respecting abutting the 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 openable 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 and well as rules of the cinematograph Act. With up-to-date amendments.

4.All the staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

5.Fire and smoke doors at the entrances of all the Staircase enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour Fire resisting wire glass window fitted with self-closing type openable in the direction of escape.

#### D.LIFT :

1.The walls of the lift enclosure shall be at least two hours Fire resisting type. Collapsible gate shall not be permitted.

2.The existing lift shall be designed for Fire Lift. The word "FIRE LIFT" shall conspicuously written at ground floor.

#### E.FIRE FIGHTING WATER :

Underground water reservoir having water capacity at 10,000 ltrs. and overhead reservoir of 20,000Lts. Capacity exclusively for Fire fighting purpose with replenishing arrangements @ 1000 lts./min. Preferably from two different sources of water supply shall be provided. The Fire 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.

#### F.HYDRANT SYSTEM :

1.The building shall be provided with down comer of 100mm internal diameter pipe line with provision of landing valves at the Staircase landings/half landings at the rate of one such riser for 1000 Sq m of floor area. The system shall be so designed that shall be kept charged with Water all the time under pressure and capable to discharge 1620 lts /min at the ground floor level outlet and minimum 900 Lts/min at the top most outlet. 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.

2.Provision for Hose Reel in conjunction with Wet Riser-cum-down comer shall be made at each floor level. Conforming to the relevant I. S. Specifications.

3.Yard Hydrant/Ring Main Hydrant with provision of two numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specification.

#### G. SPRINKLER INSTALLATION:

The automatic Sprinkler installation shall be provided in Ground floor areas of the building as per I.S.9972. Alarm gang to be incorporated along with the sprinkler system.

#### 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.

Provision of Jockey Pump shall also have to be made to keep the Water based system under pressurized condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. 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.

#### I. ELECTRICAL INSTALLATION & DISTRIBUTION :

1The 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.

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

3The electrical installation shall be adequately protected with CO<sub>2</sub>/D.C.P. System.

4Alternative 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.

**J. DETECTION, ALARM AND SUPPRESSION 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. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will be sounded on the same floor and immediate alternate floor.

3. Public Address System :-

Public address system linked between all floors and Control Room shall have to be established.

**K. 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.

**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 all vulnerable places of the building.

3. Floor numbers and directional sign of escape route shall be displayed prominently.

4. 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.

5. 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.

6. A crew of trained Fireman under the experienced Officer 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 Fire safety certificate is to be obtained from the Divisional Fire Officer, West Bengal Fire & Emergency Services

certifying about the satisfactory services, performance of all the Life and Fire Safety arrangements and installation of the building.

This shall be tested as Fire safety recommendation. On compliance of all the above Fire and Life safety recommendations, the Divisional Fire Officer, MSD, Division, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation, The FSC 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 FSR will be treated as cancelled.

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