

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIRECTOR GENERAL  
WEST BENGAL FIRE & EMERGENCY SERVICES  
13-D Mirza Ghalib Street, Kolkata- 700 016**

Memo No : IND/WB/FES/20182019/43282

DATE: 12/04/2019

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

**To :**  
**Navyug Multicon Private Limited**  
**159, Rashbehari Avenue, Ward No.-86, Borough No.-VIII, Kol-29**  
**Gariahat F.S., Gariahat,**  
**Kolkata - 700029 .**

**Sub :Fire Safety Recommendation for proposed construction of G+V storied under group Residential Building in the name of "Navyug Multicon Private Limited" at Premises No. 159, Rashbehari Avenue, Ward No.-86, Borough No.-VIII, Kolkata - 700 029.**

This is in reference to your Application No. IND/WB/FES/20182019/43282,dated 12/04/2019, regarding the Fire Safety Measure for proposed construction of G+V storied under group Residential Building in the name of "Navyug Multicon Private Limited" at Premises No. 159, Rashbehari Avenue, Ward No.-86, Borough No.-VIII, Kolkata - 700 029..

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 favour of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

**1. 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 interior finish decoration of the building shall be made of low flame spread materials conforming to I.S. specifications.

3. Provision of ventilation at the crown of the central core-duct of the building shall be provided.

4. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity & the doors of service ducts / shafts of 2hr. Fire rating.

## 2. OPEN SPACE & APPROACH:

1. The open spaces surrounding the building shall conform the relevant building rules.

2. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 20 M.T.

## 3. STAIRCASE:

1. The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / RCC 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 shown in the plan. Corridors and the exit doors shall conforming the relevant building rules.

4. Fire & Smoke doors at the entrance of staircase enclosures as shown / marked in the plan at each floor level shall be provided. The F.C.D. shall be of the least two hour Fire resisting Wire Glass Window fitted with self closing type openable in the direction of escape.

## 4. LIFT:

1. The walls of the lift enclosure shall be at least two hours Fire Resisting type.

2. Collapsible gate shall not be permitted.

3. In case of failure of normal electric supply, it shall automatically trip of alternate supply and also shall have manually operated change over facility. Alternatively, the lift shall be so wired that in case of power failure, it comes down at ground level stands still with door open.

## 5. FIRE FIGHTING WATER:

Over Head Water Reservoir of 10,000 Ltrs and Underground water reservoir of 20,000 ltrs capacity exclusively for Fire Fighting purpose with replenishing arrangements @ 1000 ltrs/min. preferably from two different sources of water shall be provided. The water reservoirs shall have overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water. The water reservoirs shall be kept full at all time.

#### 6. HYDRANT SYSTEM:

1. The building shall be provided with Down comer along with hose reel hose connected to terrace tank through the terrace pump 900 LPM capacity and one same capacitated stand-by pump and provided one 100mm. internal diameter Pipe Line for with provision of landing valves at the Staircase landings / half landings at the rate of one such down comer 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 shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.

2. Provision of one number Hydrant with one number Fire Service Inlet shall be installed the building in accordance with relevant I.S. specification.

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

#### 7. Sprinkler Installation:

The automatic Sprinkler installation shall have to be provided in all floor area of the 1ST floor as per I.S. 9972 and alarm gang to be incorporated along with the sprinkler system. Sprinkler test line shall be provided.

#### 8. 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 Electrical distribution system shall conform all the requirements as laid in I. S. 1646-1982.

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

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, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

#### 9. DETECTION AND ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with at least one number of break glass type call boxes fitted with Hooters along with public address 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. Smoke detector shall have to be provided in all floor area of the 1st floor as per I.S. specification.

#### 10. FIRSTAID FIRE FIGHTING SYSTEM:

First Aid firefighting 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. 2190-92.

#### 11. 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. Floor numbers and directional sign of escape route shall be displayed prominently.
3. The occupancy and security staff 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. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
6. 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.

12. 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, 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.

13. 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.

**Director**  
**West Bengal Fire & Emergency Services**

Validity unknown

Digitally signed by ABHIJIT  
PANDEY

Date: 2019.04.12 15:04:37 IST