

**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/20182019/28491

DATE: 07/01/2019

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

To :
Debraj De
242, DUM DUM Road
Dum Dum F.S., Dum Dum,
North 24 Parganas - 700074 .

Sub :Fire Safety Recommendation for an existing occupancy of G+VI Storied under group Residential building of Debraj De Premises at Mouza- Bagjola, J.L No.- 21in C.S. Dag No- 638,639, C.S. Khatian No.- 184, R.S. Dag No.- 3173, R.S. Khatian No.- 104, New Khatian No.- 1243, in respect of Municipal Holding No.- 242, Dum Dum Cossipore Road, Ward no.- 10, P.S- Dumdum, Dist- North 24 Parganas, under South Dumdum Municipality.

This is in reference to your Application No. IND/WB/FES/20182019/28491, dated 07/01/2019, regarding the Fire Safety Measure for an existing occupancy of G+VI Storied under group Residential building of Debraj De Premises at Mouza- Bagjola, J.L No.- 21in C.S. Dag No- 638,639, C.S. Khatian No.- 184, R.S. Dag No.- 3173, R.S. Khatian No.- 104, New Khatian No.- 1243, in respect of Municipal Holding No.- 242, Dum Dum Cossipore Road, Ward no.- 10, P.S- Dumdum, Dist- North 24 Parganas, under South Dumdum 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 favour of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

1. A.Construction:

1.The whole construction of the existing building shall have to be modified as mentioned in the approved plan drawings conforming the relevant building rules of local Municipal Body.

2.The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.

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 45 M.T.

3.The width and height of the access gates into the premises shall not be less than 4.5M – 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.

4.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. One of the lift shall be designed for Fire Lift the word "FIRE LIFT" shall conspicuously write at ground floor.

3. In case of failure of normal electricity supply, it shall automatically trip to 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 the ground level stands still with door open.

E. Fire Fighting Water:

Overhead water reservoir of 20,000 ltrs exclusively for Firefighting 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.

F. 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 along with same capacity stand-by pump and provided one 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 shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.

2 Yard Hydrant with provision of two numbers 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 U.G.W.R. & O.H.W.R. full at all time.

G. Sprinkler System:

The automatic Sprinkler installation shall be provided in the 2nd floor Car Parking areas of the building as per I.S. 9972 and Alarm gang to be incorporated along with the sprinkler system.

H. 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 sealed at alternative floor level by fire resisting material.

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

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.

I. Detection and Alarm System:

1. Manually operated Electrical Fire Alarm system with at least two numbers 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.

J. Air Conditioning System (If Any):

1. Joints must be avoided in AC wires. It must be ensured that all AC units are comprehensively serviced before operation and filter is cleaned regularly through authorized service agency which increases cooling as well as results in less electric consumption.

2. Never use AC units on normal plug points or temporary extension boards except on covered MCB's.

3. Switch off air-conditioners, lights, fans, exhaust fans, heat convectors, fax machines,

computer monitors, printers /scanners/UPS, inverter, photocopiers, TVs and other office equipment's when they are not in use. Switch on only those lights fans, air-conditioners or other equipment's which are required for functioning office. Do not leave air-conditioners, heat convectors, lights, fans and other electrical equipment's and gadgets in 'ON' position when not required.

4.Keep the doors / Windows of air-conditioned rooms close to avoid loss of conditioned air, Provide automatic door closer, Use air-conditioner fan/blowers and fans at low speed.

5.In summer reduce load on air-conditioners by putting curtains/blinds/shades on windows.

6.Window type air-conditioners/split type AC's being highly energy intensive equipment's; they should be serviced at least thrice in a year as per the recommendations of manufacturers, The servicing included cleaning of air filters, cleaning of condensers/cooling coil, service and oiling of fan motors, checking of fasteners, checking of electrical spares, checking of current/voltage and checking of room temperature and grill temperature.

7.Replace old air-conditioners which have out-lived their useful life i.e. 7 years as per Competent authorized agency maintenance manual 2012 and have become unserviceable with star rated Energy Efficient air conditioners.

K.First Aid 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 – 1992.

L.General Recommendations:

1Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.

2Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

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

4The 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.

5Arrangement 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.

6Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.

7Each year 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, 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.

Director
West Bengal Fire & Emergency Services

Signature valid
Digitally signed by ABHIJIT
PANDEY
Date: 2019.01.07 17:00:18 IST