



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

Memo no.:FSR/0125186211200325

Date: 21-09-2021

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

To: Lumberman Wood Pvt Ltd. & Keshar Chand Padia
HOLDING NO-125 UNDER WARD NO -27 UTTAR KUMRAKHALI ROAD SITUATED WITHIN THE LIMIT OF RAJPUR-
SONARPUR MUNICIPALITY COMPRISED IN R.S L.R DAG NO. -9, L.R KHATIAN NOS-432 1214/1 UNER MOUZA -
KUMRAKHALI, J.L NO-48, P.S-SONARPUR, DIST- 24 PARGANAS (S)

Sub: Fire Safety Recommendation for proposed construction of B+ G+XI storied under group of Residential building at holding No- 125, Ward No-27, Uttar Kumrakhali Road, R.S & L.R Dag No-9, R.S Khatian No-1239, L.R Khatian No-432 1214/1, Mouza- Kumrakhali, J.L.No-48, P.S – Sonerpur. Dist- 24 Parganas (S) under Rajpur- Sonerpur.

This is in reference to your application no. 0125186211200325 dated 04-09-2021 regarding the Fire Safety Recommendation for proposed construction of B+ G+XI storied under group of Residential building at holding No- 125, Ward No-27, Uttar Kumrakhali Road, R.S & L.R Dag No-9, R.S Khatian No-1239, L.R Khatian No-432 1214/1, Mouza- Kumrakhali, J.L.No-48, P.S – Sonerpur. Dist- 24 Parganas (S) under Rajpur- Sonerpur.

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 existing 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. Roof is used as a refuge area in case of an emergency and it should be clear open to sky for all time. No permanent or temporary structure will be allowed on the roof.

The authenticity of this document can be verified by accessing the URL: edistrict.wb.gov.in and then clicking on the 'Verification of Digitally Signed Document' link and keying in the Unique Number: 0125186211200325.

Page : 1

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

B. OPEN SPACE & APPROACH:

1. The open space surrounding the building shall be kept clear open to sky and shall conform the relevant building rules as well as permit the easy accessibility and manoeuvrability of Fire appliances with turning facility.
2. The floor area exceeds 750m² shall be suitably compartmented by separation walls up to ceiling level having at list two hours Fire resisting capacity.
3. The approach roads & internal drive ways shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
4. The width and height of the access gates into the premises shall not be less than 5. 20.0 Mtrs. respecting abutting the road.

C. STAIRCASE:

1. The staircases 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 amendment.
4. All the staircases shall be extended up to the terrace of the building and shall be negotiable to each other without entering into any occupied area.
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 open able in the direction of escape.

D. 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. One of the lift shall be designed for fire lift, the word FIRE LIFT shall conspicuously write at ground floor.

E. FIRE FIGHTING WATER:

1. Under Ground Water Reservoir capacity 1,00,000Ltrs. capacity for fire fighting also 50,000ltrs. capacity for domestic use and Overhead Water Reservoir exclusively for Fire Fighting having capacity 10,000lts. And 20,000ltrs. capacity for domestic use as shown in the plan to be kept full at all time.
2. The Fire Fighting water reservoir shall be having overflow arrangement with the domestic water reservoir as well as to prevent stagnancy of water.
3. Provision of replenishment at the rate of at least 1000 ltrs./min. preferably from two separate source of water supplies shall be made.
4. The water reservoirs shall be kept full at all time.
5. Provision of placing Fire Appliances on the underground water reservoir to be made to draw water in case of emergency.

F. HYDRANT SYSTEM:

1. The building shall be provided with Wet Riser at 150mm. 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 2280 lts/min. at the ground floor level outlet and minimum 900lts/min. at the top most outlet. In both cases the running pressure shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.
2. Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level. Conforming the relevant I. S. Specifications.
2. Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level conforming the relevant I. S. Specifications.
3. Yard Hydrant / Ring Main Hydrant with provision of four numbers Hydrant shall be installed surrounding the building in accordance with relevant I.S. specifications.

H. FIRE PUMP:

1. Provision of the Fire Pump shall have to be made to supply water at the rate-designed pressure and discharge into to 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 of positive type or in case of negative suction the system shall be wet riser.

2. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall preferably of positive type with down comer with suitable terrace pump with overhead tank.

I. Sprinkler Installation:

The automatic sprinkler system shall be provided in basement , ground floor , first floor, and second floor areas of the building as per I.S.9972. Alarm gang to be incorporated along with the sprinkler system.

J. ELECTRICAL INSTALLATION & DISTRIBUTION:

1. The electrical installation including transformers, 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 Electrical ducts shall be sealed at each floor level by fire resisting material.

3. The electrical installation shall be adequately protected with CO2/D.C.P. or Medium Velocity /Projector system or Gas suppression system.

4. The electrical installation shall be adequately protected with CO2/D.C.P. or Medium Velocity spray Projector System.

6. 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.

K. DETECTION AND ALARM 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, 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 sound on the same floor and immediate alternate floor.
3. Smoke detector shall have to be installed in the basement area of the building.
4. Public Address System: - Public address system linked between all floors and Control room shall have to be established.

L. AIR CONDITIONING SYSTEM (If any) :

1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floors.
2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers 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 unit's room shall not be used for storage of any combustible materials.

N. 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 License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.
2. Electrical room, panel room, computer room shall be protected with suitable type of fire fighting system as per IS-Specification.
3. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
4. Floor numbers and directional sign of escape route shall be displayed prominently.
5. 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.
6. 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 the min perfectly good working conditions at all times.
7. A crew of trained Fireman under an experienced officer shall be maintained round the clock for safety of the building.
8. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
9. Suitable type of detection system shall be provided at electrical room, panel room, computer room as per IS-Specification.
9. Each 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 Life Safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation before occupancy of the buildings; 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 buildings.

N.B: Any deviation and changes the nature of use of the buildings in respect of the approved plan drawings, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.


Validity unknown

Digitally signed by ABHIJIT
PANDEY
Date: 2021.09.21 16:10:25 IST

Director
West Bengal Fire & Emergency Services

The authenticity of this document can be verified by accessing the URL: edistrict.wb.gov.in and then clicking on the 'Verification of Digitally Signed Document' link and keying in the Unique Number : 0125186211200325.

Page : 5

Powered By  For secure paperless solutions
Please visit www.emsigner.com