

**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/20182019/27840

DATE: 15/11/2018

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

To :
LOHARUKA INFRASTRUCTURE PVT LTD
MOUZA-RAIGACHI, J.L. NO.-12, R.S./L.R. DAG NO.- 883(P) & 885(P), L.R. KHATIAN
NO.- 61,103, 1973, 2427, 2428 & 2429 UNDER RAJARHAT- BISHNUPUR NO. 1 GRAM
PANCHAYET
Barasat F.S., Rajarhat,
North 24 Parganas - 700135 .

**Sub :Revised Fire Safety Recommendation for proposed 2 No of block
consisting G+7 and G+5 storied under group Residential Building at premises no.-
MOUZA-RAIGACHI, J.L. NO.-12, R.S./L.R. DAG NO.- 883(P) & 885(P), L.R. KHATIAN
NO.- 61,103, 1973, 2427, 2428 & 2429 UNDER RAJARHAT- BISHNUPUR NO. 1 GRAM
PANCHAYET for fire & life safety measures.**

This is in reference to your Application No. IND/WB/FES/20182019/27840, dated 15/11/2018, regarding the Fire Safety Measure for proposed 2 No of block consisting G+7 and G+5 storied under group Residential Building at premises no.- MOUZA-RAIGACHI, J.L. NO.-12, R.S./L.R. DAG NO.- 883(P) & 885(P), L.R. KHATIAN NO.- 61,103, 1973, 2427, 2428 & 2429 UNDER RAJARHAT- BISHNUPUR NO. 1 GRAM PANCHAYET for fire & life safety measures.

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 Revised Fire Safety Recommendation in favour of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

1. This is in reference to your letter No. Nil dated 17.09.2018 regarding Fire Safety Recommendation for Proposed Construction of Revised fire safety Recommendation for proposed 2 No of block consisting G+7 and G+5 storied under group Residential Building at premises no.- MOUZA-RAIGACHI, J.L. NO.-12, R.S./L.R. DAG NO.- 883(P) & 885(P), L.R. KHATIAN NO.- 61,103, 1973, 2427, 2428 & 2429 UNDER RAJARHAT- BISHNUPUR NO. 1 GRAM PANCHAYET for fire & life safety measures.

The revised plan submitted by you was scrutinized and marked as found necessary from fire safety point of view. In returning one set of plan, this office is approved Revised Plan Drawing in favour of the aforesaid building subject to the compliance of the fire safety measure as recommendation issued earlier vide this office memo no. WBFES/4347/16/24 Pgs.(N)/RB/394/16(394/16) dt.-04/07/16 remain same and strictly to be followed.

Director
West Bengal Fire & Emergency Services

Signature valid
Digitally signed by ABHIJIT
PANDEY
Date: 2018.11.15 19:55:53 IST

RECOMMENDATION

A. CONSTRUCTION :

1. The whole construction of the proposed building shall be as per approved plan drawings conforming the relevant building rules.
2. The interior finish decoration of the building shall be made low flame spread materials conforming 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 and horizontal 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 5 m & 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 2 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 shown in the plan. Corridors and the exit doors shall conform the relevant building rules with up-to-date amendments.
4. All the staircases shall be extended upto terrace of the building and shall be negotiable to each floor without entering 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 openable 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 of each building shall be designed as Fire Lift. The words "FIRE LIFT" shall be conspicuously written at ground floor.



E. FIRE FIGHTING WATER :

Underground water reservoir having water capacity of 75,000 ltrs. and overhead water reservoir 5000 ltr. on each building exclusively for Firefighting 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 Wet Riser of 100 mm 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 900 Lts./min at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kgs./Cm². All other requirements shall conform 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.
3. Yard Hydrant/Ring Main Hydrant with provision of adequate numbers Hydrant shall be installed surrounding the residential building in accordance with relevant I.S. specification.

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 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.

Fire Pump Room:

Fire pump room shall be constructed at the level of minus (-)2 m from the level to facilitate positive suction.

Fire Service Inlet shall be installed near the entrance of the building.



G. 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 and horizontal ducts shall be supply sealed at each floor level by fire resisting material.
3. The electrical installation shall be adequately protected with automatic CO₂/D.C.P. extinguishing system.

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.

H. **DETECTION AND ALARM SYSTEM :**

1. Manually operated Electrical Fire Alarm system with at least one numbers of break glass type call boxes fitted with Hooters along with public address system at each floor connecting with 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. The suppression system shall be made with Fire Extinguishers particularly in computer and electric processing and data room and in a room of irreplaceable articles.
3. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.
4. **Public Address System :-**
Public address system linked between all floors and Control Room shall have to be established.

I. **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 units room shall not be used for storage of any combustible materials.

J. **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 premises shall be made in accordance with I.S. 2190 – 1992.



K. **GENERAL RECOMMENDATIONS :**

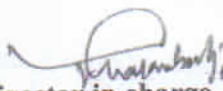
1. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles (if any).
2. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
3. Floor numbers and directional sign of Escape route shall be displayed prominently.

4. The occupants, 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 an 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 the building.
8. 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 Fire Safety arrangements and installation of the building.

On compliance of all the above Fire 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.



for  01/10/2016
Director in charge
Fire Prevention Wing
West Bengal Fire & Emergency Services