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

Memo no.:FSR/0225186248700268

Date: 03-05-2024

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

To: SRI BINOY BHAWAL AND SMT RIMPI BHAWAL
109,3769,NAYABAD

Sub: Fire Safety Recommendation for Proposed Construction of a G+VII Storied under group residential building of SRI BINOY BHAWAL AND SMT RIMPI BHAWAL at Premises no. 3769, Nayabad, Ward No.- 109, Borough- XII, Kolkata- 700094, P.S- Purba Jadavpur (Now Panchasayar).

Application Reference : KMC (CAF-2023120644) received on 09-03-2024 regarding the Fire Safety Recommendation for Proposed Construction of a G+VII Storied under group residential building of SRI BINOY BHAWAL AND SMT RIMPI BHAWAL at Premises no. 3769, Nayabad, Ward No.- 109, Borough- XII, Kolkata- 700094, P.S- Purba Jadavpur (Now Panchasayar).

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 Proposed building shall be carried out as per approved plan drawings Confor ming the relevant building rules of local Municipal Body.
2. The floor area shall be suitably compartmented by separation wall up to ceiling level having at least two hours Fire resisting capacity as per N.B.C Part-IV 2016 .
3. The interior finish decoration of the building shall be made low flame spread materials conforming I. S. specifications.
4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
5. Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting 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 4.5 – 5 Mtr. respecting the abutting road.

4. Driveway must be maintain as per plan drawing

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 with up-to-date amendments.

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

5. Fire and smoke doors at the entrances of one no 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.

6. All exits, staircase, staircase landing shall be kept free from any obstruction for smooth evacuation of the people on any emergency.

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 written at ground floor.

3. The speed of fire lift shall be such t hat it can reach the top floor from ground level within one minute.

4. Lift Communication system shall be provided in the lift and this system shall be connected to fire control of the buildings.

7. Alternate source of power supply shall be provided for all lift through manually operated change over switch.

E. FIRE FIGHTING WATER :

1. O.H.W.R having water capacity of 75,000 ltrs. for Fire fighting 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 (Down Comer) :

1. Provision of standard Hose Reel Hose in conjunction with down comer supplied from the overhead reservoir through Booster Pump of 900 LPM discharge Capacity shall have to be made in the all floors of the building satisfy the code of I.S. 3844-1989.

2. The building shall be provided with Down comer connected to terrace tank through the terrace pump at 900 LPM capacity and provided one 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. One such Fire Pumps to be provided as standby Fire Pump preferably diesel driven. The system shall be so designed that shall also be installed. In both cases the running pressure shall not be less that 3.5 Kgs/Cm2.all other requirements shall conform I.S. 3844-1989.

3. Yard Hydrant/Ring Main 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.

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

G. WATER LAY OUT :-

Ring Main Hydrant :- 100mm dia Ring main water layout arrangement covering the entire premises of the project with provision of Pillar Type Yard Hydrant keeping adequate distance one and another.

H. FIRE PUMP :

a. Provision of the Terrace Booster Fire Pump (LPM- 900) 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. Pump should always keep for operational work through Auto Mode . Manually Mode also be provided.

b. Level switch to be provided so that the Bore well/Deep tube well will automatically start after lowering down the water level of O.H.W.R. after a specific level.

I. 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 supply sealed at alternative floor level.

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

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, 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 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 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. Auto fire detection system with the help of flent and smoke detector shall be installed in all places of below and preferably above false ceiling (if any) of the building. The other requirements of the system shall be made in accordance with I.S. 2189-1988.

3. The suppression system shall be made with Fire Extinguishers and total flooding system with CO2/FM-200 particularly in computer and Electrical processing and data room and in a room of irreplaceable articles.

4. 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.

5. Public Address System : This system linked between all floors and Control Room shall have to be established.

K. AUTOMATIC SPRINKLER SYSTEM :

1. Automatic Sprinkler System shall be provided in Cover Car Parking Area at Ground Floor as per relevant I.S Specification.

L. AIR CONDITIONING SYSTEM (IF ANY) :

1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floor.
2. Arrangement shall be made for isolation at the strategies location by incorporating auto damper 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.

M. FIRST AID FIRE FIGHTING SYSTEM :

First Aid Fire Fighting arrangements 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.

N. GENERAL RECOMMENDATIONS :

1. Fire Licence 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 an vulnerable places of the building.
3. Floor numbers and directional sign of escape routes shall be displayed prominently.
4. The employees and security staff shall be conversant with installed Fire Fighting equipments of the building and to 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 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. 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 and Life safety recommendations, the Director General, West Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the installation, Final N.O.C. in favour of the occupancy shall be issued on being satisfied with the tests and performance 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

Signature Not Verified
Digitally Signed
Name: ABHIJIT PANDE
Date: 03-May-2024 12:47:48
Reason: Approved
Location: West Bengal

DIRECTOR
West Bengal Fire & Emergency Services