



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

Memo no.:FSR/0225186248700164

Date: 21-03-2024

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

To: SARDAR HAIDER JAFFRI BUSHRA JAFFRI SADIA JAFFRI SAIF HAIDER JAFFRI ZAID HAIDER JAFFRI
057,32,DEBENDRA CHANDRA DEY ROAD

Sub: Fire Safety Recommendation for a proposed construction of G+VII storied under group occupancy Residential Building in the name & style "SARDAR HAIDER JAFFRI BUSHRA JAFFRI SADIA JAFFRI SAIF HAIDER JAFFRI ZAID HAIDER JAFFRI" at the premises no. 32, DEBENDRA CHANDRA DEY ROAD, WARD-57, BROUGH-VII UNDER KMC, P.S.-TANGRA, KOLKATA-700015

Application Reference : KMC (CAF-2023070314) received on 13-02-2024 regarding the Fire Safety Recommendation for a proposed construction of G+VII storied under group occupancy Residential Building in the name & style "SARDAR HAIDER JAFFRI BUSHRA JAFFRI SADIA JAFFRI SAIF HAIDER JAFFRI ZAID HAIDER JAFFRI" at the premises no. 32, DEBENDRA CHANDRA DEY ROAD, WARD-57, BROUGH-VII UNDER KMC, P.S.-TANGRA, KOLKATA-700015

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:

CONSTRUCTION:

- 1.The whole construction of the shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipality/local Body.
- 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.Arrangement shall have to be made for sealing all the vertical and horizontal ducts by the materials of adequate fire resisting capacity.

OPEN SPACE AND APPROACH:

- 1.The open spaces surrounding the building shall conform the relevant building rules as well as permit the accessibility and maneuverability of Fire Appliances with turning facility.
- 2.The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting 45M.T.
- 3.The width and height of the access gate into the premises shall not be less than 4.5 mts. and 5.0 mts. respecting the

abutting road.

4. Drive way should be free from any type of obstruction. No parking will be allowed on the drive way.
5. All the Passage way should be kept clear for free access.

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 width of the staircase shall be made as shown in the plan. Corridors and the exit doors shall conform the relevant Building Rules with up to date amendment.

LIFT:

1. The walls of the lift enclosure shall be at least two hours Fire Resisting type.
2. Collapsible gate shall not be permitted.

FIRE FIGHTING WATER:

Overhead water reservoir having capacity of 10000 lt. exclusively for firefighting purpose with replenishing arrangements @ 1000 lt./min. preferably from two different sources of water supply shall be provided. The water reservoirs shall have overflow arrangement with the domestic water reservoir (if any) as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.

HYDRANT SYSTEM:

1. The building shall be provided with Down comer of 100 mm. internal diameter pipe line with provision of single landing valves at the staircase landings/half landings at the rate of one such riser for 1000 sqm. of floor area. The system shall be so designed that shall be kept charged with water all the time in auto mode with providing the one electric pump with the capacity 900 lpm & one stand by pump have same capacity as stand by pump of pressure and capable to discharge 900 lt. /min. at the ground level outlet and at the top most outlet. In both cases the running pressure shall not be less than 3.5 kgs/sq.cm. All other requirements shall conform I.S. 3844-1989.
2. Provision for Hose Reel in conjunction with down comer shall be made at each floor level and conforming the relevant I.S. Specifications.
3. Yard Hydrant/Ring Main Hydrant with provision of adequate numbers hydrant with one number of Fire Service Inlet shall be installed surrounding the building in accordance with relevant I.S. specifications.

ELECTRICAL INSTALLATION AND DISTRIBUTION:

1. The electrical installation including Transformers, Switch Gear, 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. Transformer (if oil type) to be protected with HVWPS/MVWPS as applicable.
2. The vertical and horizontal electrical ducts & other service duct shall be sealed at each floor level by fire resisting materials.
3. The electrical installation shall be adequately protected with CO2/D.C.P. Fire Extinguishers conforming I.S. specification.
4. All cables should be FRLS type and all wiring along with appropriate gauge and resistance conforming the machineries to be used.
5. All electrical installation should be done in accordance with National Electrical Code and Part- VIII "Building Services" Section-2 "Electrical installation" good practice [4(10)].
6. Arrangement for alternative power supply shall have to be made to supply power with the help of a generator to operate at least the Fire Pump, Deep Tube-Well Pump, Fire Alarm System, pressurization system, etc. and also for illuminating the Staircase, Corridors, Lobbies etc. and other places of assembly of the building in case of normal power failure.

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 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 and total flooding system with CO2/F.M.-200 particularly in Computer as per requirement, Electrical processing and Data Room and in all rooms of irreplaceable articles as well as suitable of inflammable materials.

3.Hooters will be sounded in such a manner so that an operation of an any Detector or Manual Call Point.

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. Dampers shall operate automatically switch off the air handling fans. Manual operation facility shall also be provided.

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 First Aid Fire Fighting arrangement in the style 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.

5.Escape routes like staircase, corridor, lift lobbies, etc. shall not be used as return air passage.

6.The ducting shall be constructed of substantial gauge metal in accordance with good practice.

7.Where the ducts pass through fire wall or floors, opening round of the ducts shall be sealed with materials having fire resistance rating of the compartment. All other should be followed the NBC part-IV with up to date amendment.

SMALL GEARS

Hose box, 15-meter length delivery hose, gunmetal short branch of half inch dia. one set at each pillar hydrants as IS:903-1993 specification should be installed.

FIRST AID FIRE FIGHTING SYSTEM:

First Aid firefighting arrangement in the style of placing suitable-type of portable fire extinguisher, Fire buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with IS 2190-1992.

MEANS OF ESCAPE:

1.The emergency exit shall not be allowed to lock and key round the clock.

2.The walls of the lift enclosure shall be at least two hours fire resisting type. Collapsible gate shall not be permitted.

3.Time of evacuation should be as per IS: 1644-1988.

4.Emergency lighting shall be powered from an independent source for illuminating escape route, corridor, exit, etc.

GAS BANKS'S 6044-2000(if any):

In case of gas bank, the same should be installed conforming S/L 4.1.5 & 4.1.6 of the aforesaid IS code of practice and Fire service license to be obtained for such LPG gas bank & to be protected as per norms.

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.Suitable no. trolley mounted foam extinguishers to be provided at the diesel storing, etc. storing area as suitable.

3.Fire control room to be established at the ground floor.

4.CC TV to be installed in the building.

5.Assembly area shall be specified in the ground floor area.

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

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

8.The employees and security staffs shall be conversant with installed Fire Fighting Equipment's of the building and to operate in the event of Fire and Testing.

9.Arrangement 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.

10.Mock Fire practice and Evacuation Drill shall be performed periodically with participation of all occupants of the building.

On compliance of all the above Fire and Life Safety Recommendation, the Director General, West Bengal Fire & Emergency Services shall be approved for necessary inspection and testing of all the installation, Fire Safety Certificate in favor 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.

Signature Not Verified
Digitally Signed
Name: ABHIJIT PANDE
Date: 21-Mar-2024 15:43:10
Reason: Approved
Location: West Bengal

DIRECTOR
West Bengal Fire & Emergency Services

Memo No.:FSR/0225186248700164