



Government of West Bengal
Office of the Director General
West Bengal Fire & Emergency Services
13D, Mirza Ghalib Street, Kolkata – 16

Memo No.: FSR/221862406300009579

Date : 11-04-2025

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

To :
SHAKIL NAWAZ
058,10,PRABHURAM SARKAR LANE

Sub: Fire Safety Recommendation for a proposed construction consisting two nos. G + IV (Block -A & B) storied Residential building under group occupancy Residential building at the premises no. 10, PRABHURAM SARKAR LANE, WARD-58, BR.-VII, KOLKATA-700015.

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Application Reference : KMC (CAF - 2024070219) received on 21-Dec-2024 regarding Fire Safety Recommendation for a proposed construction consisting two nos. G + IV (Block -A & B) storied Residential building under group occupancy Residential building at the premises no. 10, PRABHURAM SARKAR LANE, WARD-58, BR.-VII, 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 office is issuing Fire Safety Recommendation in favor of the aforesaid building for compliance of the following fire safety measure.

Recommendation :

CONSTRUCTION:

1. The whole construction of the building shall be carried out as per approved plan and conforming by the relevant building rules of local authority.
2. All the compartment walls up to ceiling level having at least four hours fire resisting capacity.
3. All construction materials should be of four hrs. fire resisting capacity. Doors and windows should be of at least two hrs. fire resisting type. Provision of ventilation of the central core duct shall be provided.
4. The interior finish decoration of the building shall be made low flame spread materials conforming IS specification.



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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 staircase of the building shall have permanent vents at the top and openable sashes at each floor level in the external walls of the building.
3. 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. Collapsible gates shall not be permitted with the lift cars & shall have solid doors.
2. The walls of the lift enclosure shall be at least two hours Fire Resisting type.

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.

FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 50000 lt. and overhead water reservoir having capacity of 10000 lt. each block 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 as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.

HYDRANT SYSTEM:

External Hydrant System: IS-13039:1991

The whole area of the building is to be protected by adequate no. of pillar type hydrants system / Ring Main Hydrant of 150 mm internal dia. Pipe line i.e. one pillar hydrant per 1000 sq. meter of area or as per the vulnerability of the place.

Internal Hydrant/ Wet Riser System IS-3844:1989

The building shall be provided with Wet Riser of 100 mm internal diameter pipeline in each block 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 in each block. The system shall be so designed that kept charged with water all the time under pressure and capable of discharge 1620 lt./min. at the ground floor level outlet and minimum 900 lt./ min. at the top most furthest outlet. In both cases the running pressure shall not be less than 3.5 kgs. / Sq.cm All other requirement shall conform I.S. 3844-1989.

HOSE REEL HOSE

Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level and conforming the relevant I.S. IS:844-1985 Specifications.

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.

PUMP FOR FIREFIGHTING

Two nos. electric pump of capacity 1620 Lt./min and one no. electric pump of capacity 180 lt./min to be installed and arranged in such a manner so that it will start automatically due to fall in pressure by installing as jockey pump as per IS-12469:1988 specification. All the pump shall be designed so as to supply water 900 LPM at a pressure 3.5 kg/cm² at the furthest point. Electrical arrangement for stand by fire pump shall be ensured. 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.

ELECTRICAL INSTALLATION AND DISTRIBUTION:

1. The electrical installation including Transformers(if any), 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 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. 2189:2008.
 2. Hooters will be sounded in such a manner so that an operation of a Manual Call Point. Hooters will be sounded on the same floor and immediate alternate floor.
- Smoke/heat detectors to be provided in the covered ground floor car parking, office area as per norms.
3. Public Address System linked between all floors and Control Room shall have to be established.
 4. Fire Control Room of the premises having direct dialing facility to the local fire service.
 5. public address system shall be made available in all floors of the building. The system shall be connected to the Main Control Room.

FIRST AID FIREFIGHTING 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.

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 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.

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. Fire control room to be established at the ground floor.
3. CC TV to be installed in the building.
4. Assembly area shall be specified in the ground floor area.
5. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
6. Floor numbers and directional sign of escape route shall be displayed prominently.
7. 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.
8. 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.
9. Mock Fire practice and Evacuation Drill shall be performed periodically with participation of all occupants of the building.
10. A crew of trained Fireman under the experienced Fire Officer shall be maintained round the clock for



safety of the building.

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 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.

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Director

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