



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

Memo no.:FSR/0125186231100238

Date: 03-05-2023

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

To: GROUND 2 SKYE VENTURES LLP
MOUZA- CHANAK, 6/4, S. N. BANERJEE ROAD, WARD NO- 21, BARRACKPORE MUNICIPALITY, P.S- TITAGARH,
NORTH 24 PARGANAS, PIN- 700120.

Sub: Fire Safety Recommendation for a proposed construction of B + G + VIII storied building under principal group occupancy Residential building in the name & style " GROUND 2 SKYE VENTURES LLP" at DAG NO. 140,141,142,143, KHATIAN NO.- 242,508,621,622 MOUZA- CHANAK, JL NO.-4, 6(4)S. N. BANERJEE ROAD, WARD NO- 21, BARRACKPORE MUNICIPALITY, P.S- TITAGARH, NORTH 24 PARGANAS, PIN- 700120.

This is in reference to your application no. 0125186231100238 dated 22-03-2023 regarding the Fire Safety Recommendation for a proposed construction of B + G + VIII storied building under principal group occupancy Residential building in the name & style " GROUND 2 SKYE VENTURES LLP" at DAG NO. 140,141,142,143, KHATIAN NO.- 242,508,621,622 MOUZA- CHANAK, JL NO.-4, 6(4)S. N. BANERJEE ROAD, WARD NO- 21, BARRACKPORE MUNICIPALITY, P.S- TITAGARH, NORTH 24 PARGANAS, PIN- 700120.

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 ware house 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.

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GROUND 2 SKYE VENTURES LLP
Siparjan Bhattacharya
DESIGNATED PARTNER

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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.
4. Refuge platform to be provided as shown in the plan drawing.

LIFT:

1. The walls of the lift enclosure shall be at least two hours Fire Resisting type.
2. Lift lobby to be provided as shown in the plan drawing.
3. Collapsible gate shall not be permitted.

BASEMENT:

1. The basement shall be adequately ventilated.
2. The basement shall be protected with auto sprinklers system/hose reel system etc.
3. Mechanical extractors for smoke venting system from basement levels with proper mechanism with the help of axel & jet fans shall also be provided. The system shall be of such design as to operate on actuation of heat/smoke detectors, or sprinkler. It shall also have an arrangement to start it manually.
4. Mechanical extractors shall have an alternative source of supply.

FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 100000 lt. and overhead water reservoir having capacity of 10000 lt. exclusively for firefighting purpose with replenishing arrangements @ 1000 ltrs/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 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 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.

SPRINKLER SYSTEM:

Entire commercial area & basement of the building should be covered with the sprinkler system as per IS 9972.

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.

PUMP FOR FIREFIGHTING

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One no. electric pump of capacity 1620 Lt./min and one no. electric pump of capacity 180 Lt./min should 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. One no. stand by fire pump with same capacity 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, 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 Detectors /Manual Call Point. Hooters will be sounded on the same floor and immediate alternate floor.
- 3.Public Address System linked between all floors and Control Room shall have to be established.
- 4.Auto Fire Detection System with the help of Smoke/ heat Detectors shall be installed in entire commercial area including basement. The system shall also be made in place of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189:2008(as amended) and the code of practice as laid down in the N.B.C Part-IV.
5. Fire Control Room of the premises having direct dialing facility to the local fire service.
6. Both way public address system shall be made available in all floors of the building. The system shall be connected to the Main Control Room.

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.

Validity unknown

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PANDEY
Date: 2023.05.03 16:25:10 IST

Director
West Bengal Fire & Emergency Services

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