



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

Memo no.:FSR/0125186211100441

Date: 20-07-2021

From:

Director

Fire Prevention Wing,

West Bengal Fire & Emergency Services

To: PCS FORMS PVT LTD

378, Jessore Road South, Madhyamgram, Kolkata - 700129

Sub: Fire Safety Recommendation for proposed construction of G+XI Storied under group Residential Building comprising 03 nos Block (Block – A,B,C) upon a common Ground Floor and 01 no G+II storied Service Building (Club) at the premises no. 378, Jessore Road South, Mouza – Doharia, J.L No.: 45, RE. SU. NO. 132 & 139, Touzi No. 146, RS Kh. NO. 542, 218, 839, R.S. Dag No. 716, 717, 718, Ward No. 10, P.O.: Madhyamgram, P.S.: Madhyamgram I. C., District: North 24 Parganas, Pin: 700129.

This is in reference to your application no. 0125186211100441 dated 13-06-2021 regarding the Fire Safety Recommendation for proposed construction of G+XI Storied under group Residential Building comprising 03 nos Block (Block – A,B,C) upon a common Ground Floor and 01 no G+II storied Service Building (Club) at the premises no. 378, Jessore Road South, Mouza – Doharia, J.L No.: 45, RE. SU. NO. 132 & 139, Touzi No. 146, RS Kh. NO. 542, 218, 839, R.S. Dag No. 716, 717, 718, Ward No. 10, P.O.: Madhyamgram, P.S.: Madhyamgram I. C., District: North 24 Parganas, Pin: 700129.

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 and lay out of proposed building shall remain same as per approved plan and shall never be altered with prior approval of this Department and strictly follow Howrah Municipal Corporation Rules.
2. The floor area exceeds 750 Sq M shall be suitably compartmented by separation walls up to ceiling level having at least two hours fire resisting capacity.
3. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specification.
4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.

**B. OPEN SPACE & APPROACH:**

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Page : 1

1. The open space 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 up to 45 M.T.

#### C. STAIRCASE:

1. The staircase of the buildings 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 buildings shall have openable sashes at each floor level on the external wall of the buildings.
3. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conform the relevant buildings rules with up to date amendment.
4. All the staircases shall be extended up to the terrace of the buildings and shall be negotiable to each other without entering into any room.
5. Fire and smoke doors at the entrances of one number staircase enclosures in each block on each floor level as shown in the plan shall be provided. All F.C.D. along with its fittings shall be of at least two hour Fire resisting wire glass window fitted with self-closing type openable in the direction of escape.

#### D. LIFT:

1. The lift well shall be at least two hours fire resisting type.
2. Collapsible Gate shall not be permitted,

#### E. FIRE REFUGE AREA:

1. Fire Refuge area of 15.29 Sq M area Shall be provided on the external wall with cantilever projection or other suitable means at 21.2 M & 30.8 M level of the Assembly Building as shown/ marked in the plan.
2. The refuge area shall be of Fire Resisting construction and protected with self closing F.C.D. at the entrance from the corridor or the staircase lobbies.
3. The position of Refuge areas shall be such that they are negotiable by the fire service ladder from the ground as marked in the plan.

#### F. FIRE FIGHTING WATER:

Underground water reservoir having water capacity of 200000 Ltrs and Overhead water reservoir having water capacity of 30000 Ltrs exclusively for firefighting purpose with replenishing arrangements @ 1000lts. /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.

#### G. HYDRANT SYSTEM:

1. The buildings shall be provided with Wet Riser of 150 mm internal diameter pipe line with provision of landing valves at the staircase landing/half landings at the rate of one such riser for 1000 Sq. M. of floor area. The system shall be so designed that be kept charged with water all the time under pressure and capable to discharge 2280 LPM at the ground floor level outlet and minimum 900 LPM at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kg./Sq.cm. 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 of all buildings conforming the

relevant I.S. specification.

3. Yard Hydrant & Ring Main Hydrant with provision of adequate numbers Hydrant along with Fire Service inlet shall be installed surrounding the buildings in accordance with relevant I.S. specification.

#### H. FIRE PUMP:

1. 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 buildings. One such pump shall always be kept on Stand-by of diesel driven type.

2. 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.

#### I. SPRINKLER INSTALLATION:

The automatic Sprinkler installation shall be provided in ground floor car parking area, community hall and club area as per I.S. 9972. Alarm gong to be incorporated along with the sprinkler system.

#### J. 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 electrical installation shall be adequately protected with CO2/D.C.P. Extinguisher or modular.

##### 3. 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.

#### K. DETECTION, ALARM SYSTEM:

1. Manually operated Electrical Fire Alarm system with adequate numbers of break glass type call boxes fitted with Hooter at each floor connecting with control panel at 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 heat or smoke detectors shall be installed in community hall, club area including below and preferably above false ceiling in all floor level of the building. The system shall also be made in all places where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988.

3. The Suppressions system shall be made with fire extinguishers as per suitability particularly inside the industry and in 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 sounder on the same floor and immediate alternate floor.

##### 5. Public Address System:

Public address system linked between all floors and control room shall have to be established.

#### L. FIRST AID FIRE FIGHTING SYSTEM:

First Aid Fire fighting arrangement in the style of placing suitable Fire Extinguishers, Fire Buckets etc. in all floors and vulnerable of locations of the premises shall be made in accordance with I.S. 2190-1992.

#### M. LPG BANK:

1.L.P.Gas bank shall be on the ground level of the said building which to be constructed at least 3mt. distance between an installation and any building, public place, roadways, and other surroundings. The installation shall be protected from excessive weathering by sun, rain etc. and from tampering by unauthorized person. A lean-to roof with expanded metal on angle iron framework on the sides is considered suitable for this purpose.

Adequate ventilation at ground level i.e. 100 mm above of gas bank, open to atmosphere and below ceiling level at least 500 mm long & 300 mm height (covering minimum 25 percent of wall area) to the outside air shall be provided.

2.Cylinders shall be located on a concrete or brick floor, raised minimum 100 mm from ground level in case of outdoor installations.

3.FLP fittings, approved by statutory authorities shall be provided for electrical use.

4.The controlling device of L.P.G. shall have to be placed at a far away (at least 3mtr.) from gas bank.

5.The doors of the LPG bank room to be made with non –flammable materials which shall open outwards & shall have louvers/wire mesh to ensure visibility & ventilation.

6.L.P.Gas detector/ sensor to be installed at the kitchen & gas bank area.

7.No electrical heater, kerosene stove, opens Chula etc. shall be allowed in the kitchen where L.P.G. are in use.

8.Cylinders shall not be stored along with any combustible materials.

9.Medium velocity water spray system which can be operated by quick opening valve placed away from the said area.

10.Two buckets filled with sand & two with water shall also be installed nearby.

11.Two nos. dry powder type fire extinguisher as per I.S. 2171.of 10 K.G. capacity for LPG installations shall be provided and shall be located near such installations (at least 3mtr. away).

12.Gas meters to be placed in a suitably constructed metal cupboard located in a well ventilated space.

13.Red Luminous letterings of minimum height of 40mm as "DANGER / HIGHLY INFLAMABLE GAS / NO SMOKING/ NO NAKED LIGHTS" on white background shall be written outside at prominent place.

14.Cylinder manifolds, Pressure regulators, Piping, valves & other requirements to be as per I.S. 6044(Part 1): 2013.

15.The colour of LPG lines shall be as per I.S. 2379.

#### N. GENERAL RECOMMENDATION:

1. Fire License 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 all vulnerable places of the building.

3. Directional sign of escape route shall be displayed prominently.

4. The 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 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. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.

This shall be treated as provisional N.O.C. on compliance of all 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 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 provisional N.O.C. will be treated as cancelled.

Signature valid

Digitally signed by ABHIJIT  
PANDEY  
Date: 2021.07.20 07:58:47 IST

Director  
West Bengal Fire & Emergency Services

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