



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

Memo no.:FSR/0125186211200309

Date: 21-09-2021

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

**To:** ASHOK KUMAR BOTHRA AND KUSUM BOTHRA  
R.S.DAG NO-508,509,514,515,516,517 518 R.S. KHATIAN NO-519,746 AND 886, J.L NO-47, PREMISES NO-222,  
MAHAMAYATALA, GARIA MAIN ROAD, P.O GARIA, KOLKATA-700084, UNDER RAJPUR SONARPUR  
MUNICIPALITY

**Sub:** Fire Safety Recommendation for proposed construction of one number G+XI storied under group Residential building at the premises no., 222, MAHAMAYATALA, GARIA MAIN ROAD, R.S.DAG NO-508,509,514,515,516,517 518, R.S. KHATIAN NO-519,746 AND 886, J.L NO-47, UNDER RAJPUR SONARPUR MUNICIPALITY, P.O.: GARIA, KOLKATA-700084.

This is in reference to your application no. 0125186211200309 dated 04-09-2021 regarding the Fire Safety Recommendation for proposed construction of one number G+XI storied under group Residential building at the premises no., 222, MAHAMAYATALA, GARIA MAIN ROAD, R.S.DAG NO-508,509,514,515,516,517 518, R.S. KHATIAN NO-519,746 AND 886, J.L NO-47, UNDER RAJPUR SONARPUR MUNICIPALITY, P.O.: GARIA, KOLKATA-700084.

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 construction of Residential building shall remain same as per approved plan and shall never be altered with prior approval of this Department and strictly follow local Municipal / KMC 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 or by water curtain.
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:**

1. The open space surrounding the buildings shall conform the relevant buildings rules as well as permit the accessibility

and maneuverability of Fire appliance with turning facility.

2.The approach roads & internal driveway 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 5 Mts. and 5 Mts respecting abutting the road.

#### 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 all the staircase enclosures as marked in the plan at each floor level 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 FIGHTING WATER:

Underground water reservoir having water capacity of 100000 ltrs and Overhead Water reservoir having water capacity 10000 ltrs for the building as marked/shown in the plan 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.

#### F. HYDRANT SYSTEM:

1.The Residential building 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.Mt. 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 Ltr./Min. at the ground floor level outlet and minimum 900 Ltr./Min. 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.

#### G. 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, preferably

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.

3. To avoid high pressure in lower levels of wet riser in the building multi stage, multi -outlets pumps (Creating pressure zones) or variable frequency drive pumps or any other suitable arrangement to be provided as per N.B.C. Part – IV 2016.

#### H. 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 including transformers, Switch Gears, main & Meters 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.

#### I. DETECTION, ALARM AND SUPPRESSION 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 smoke detectors in electrical room, transformer space shall be installed. 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 building 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.

#### J. 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.

#### K. 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. A crew of trained Fireman under the experienced Officer 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.

Fire Safety Certificate shall be obtained 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. Fire Safety Certificate 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 Fire and Life safety recommendations will be treated as cancelled.

Signature valid

Digitally signed by ABHIJIT  
PANDEY  
Date: 2021.03.21 16:09:01 IST

Director  
West Bengal Fire & Emergency Services

Memo No.: FSR/0125186211200309