



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

Memo no.:FSR/0125186229100006

Date: 20-02-2022

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

To: Disha Infrastructure LLP.
Ward no. 35, Gopalmath, P.O Oyaria, Mouza Gopalmath, Plot no. R.S 345, 347, 348/1086, L.R 311, 312, 313, 314,
Kh. no. 1785, J.L no.003, P.S Durgapur, Dist. - Paschim Bardhaman, Pin -713217

Sub: Revised Fire Safety Recommendation for existing construction of B+G+11 Storied under group Residential Building at the premises no. Ward no. 35, Gopalmath, P.O Oyaria, Mouza Gopalmath, Plot no. R.S 345, 347, 348/1086, L.R 311, 312, 313, 314, Kh. no. 1785, J.L no.003, P.S Durgapur, Dist. - Paschim Bardhaman, Pin -713217

This is in reference to your application no. 0125186229100006 dated 20-01-2022 regarding the Fire Safety Recommendation for existing construction of B+G+11 Storied under group Residential Building at the premises no. Ward no. 35, Gopalmath, P.O Oyaria, Mouza Gopalmath, Plot no. R.S 345, 347, 348/1086, L.R 311, 312, 313, 314, Kh. no. 1785, J.L no.003, P.S Durgapur, Dist. - Paschim Bardhaman, Pin -713217

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 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 local Panchayet / Municipal 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:

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 building shall be enclosed type. Entire construction shall be made of bricks/R.C.C. type having fire resisting capacity not less than 4 hrs.
2. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules
3. All the staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.
4. Fire and smoked doors at the entrances of the staircases enclosures as marked in the plan at each floor level shall be provided. The F.C.D. 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.
3. Lift lobbies at each floor level to be enclosed with FCD and lift lobby at basement level to be pressurized.

E. Basement:

1. The Basement shall be adequately ventilated.
2. The Basement shall be protected with Auto Sprinklers system.
3. Mechanical extractor for Smoke venting system at Basement level shall also be provided. The system shall be of such design as to operate automatically on actuation of detection system & sprinkler system. It shall also have an arrangement to start it manually.
4. Mechanical extractors shall have an alternative source of supply.

F. FIRE REFUGE AREA:

1. Refuge area is not less than 15sqm. Shall be provided on the external wall with cantilever projection or other suitable means at 25.4 M & 40.9 M level on 8th & 13th Floor level respectively having 16.85 Sq M & 15.64 Sq M area 0410as 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. Each refuge area shall be ventilated and provided with sprinklers, first aid box, fire extinguishers, public address speaker, fire man talk back, and adequate emergency lighting as well as drinking water facility.
4. 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 150000 Ltrs and Overhead water reservoir having water capacity of 10000 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.

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. Separate fire pumps shall be made for the total Sprinkler installation of the building.
3. Provision of 02 no Jockey Pumps for Hydrant & Sprinkler separately 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.
4. 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.
5. One set of pumps shall be provided for each 100 hydrants or part there off with a maximum of two sets alternatively it can be met by providing additional diesel pump of the same capacity and doubling the fire water tank capacity as per N.B.C. Part – IV 2016.

H. SPRINKLER INSTALLATION:

The automatic Sprinkler installation shall be provided in all floor level as per I.S. 9972. Alarm gong to be incorporated along with the sprinkler system.

I. 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.

J. 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 all places of bellow 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.

K. 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.

L. 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 Not Verified
Digitally signed by ABHIJIT
PANDEY
Date: 2022.02.20 21:28:24 IST

Director
West Bengal Fire & Emergency Services