

**GOVERNMENT OF WEST BENGAL
OFFICE OF THE DIRECTOR GENERAL
WEST BENGAL FIRE & EMERGENCY SERVICES
13-D Mirza Ghalib Street, Kolkata- 700 016**

Memo No : IND/WB/FES/20192020/83025

DATE: 27/05/2020

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

To :
MERLIN PROJECTS LIMITED (DEVELOPER)
Mouza-Chouhati, JL No.76, LR Dag No.1211, 1217, 1219, LR Khatian
No.2879,2881,2889,2890,Ors on extension of E.M.Bye Pass Road under Rajpur
Sonarpur Municipality, Ward No.24,PO- Chouhati,PS- Sonarpur,South 24 Parganas
Baruipur F.S., sonarpur,
South 24 Parganas - 700148 .

Sub : Fire Safety Recommendation for a proposed construction of B + G + 26 storied (Block-1) and G+26 storied (Block-2) building under group Residential at the premises no.- Mouza-Chouhati, JL No.76, LR Dag No.1211, 1217, 1219, LR Khatian No.2879,2881,2889,2890,Ors on extension of E.M.Bye Pass Road under Rajpur Sonarpur Municipality, Ward No.24,PO- Chouhati,PS- Sonarpur,South 24 Parganas, sonarpur, South 24 Parganas - 700148

This is in reference to your Application No. IND/WB/FES/20192020/83025, dated 27/05/2020, regarding the Fire Safety Measure for a proposed construction of B + G + 26 storied (Block-1) and G+26 storied (Block-2) building under group Residential at the premises no.- Mouza-Chouhati, JL No.76, LR Dag No.1211, 1217, 1219, LR Khatian No.2879,2881,2889,2890,Ors on extension of E.M.Bye Pass Road under Rajpur Sonarpur Municipality, Ward No.24,PO- Chouhati,PS- Sonarpur,South 24 Parganas, sonarpur, South 24 Parganas - 700148.

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 favour of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

1. CONSTRUCTION:

1. The whole construction of the proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body, I.S. / B.I.S. Specifications and N.B.C. of India (Part IV) 2016.
2. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
3. Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.
4. Roof is used as a refuge area in case of an emergency and it should be clear & open for all time. No permanent or temporary structure will be allowed on the roof.

2. OPEN SPACE & APPROACH:

1. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
2. The width and height of the access gates into the premises shall not be less than 4.5 – 5 M respectively to the abutting the road.
3. There shall be 12 Meters clear open space in the front, 13 Meters clear open space in the both sides and 14 Meters clear open space in the rear of the proposed building.
4. There shall be 6 Meters clear Driveway all around the building which shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
5. There shall be One 9Mtrs. X 5 Mtrs. Clear open space on the Driveway just beneath the Refuge Areas.

3. 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 Entrance of the Staircases shall be enclosed and protected by Fire Check Doors of 2

Hour Rating.

3. The staircase of the building shall have to be pressurized.
4. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules and N.B.C. of India (Part IV) 2016 as well.
5. 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 FIGHTING WATER:

Underground water reservoir having water capacity of 2,00,000 Ltrs. as shown in the plan drawing and overhead water reservoir of 10,000 Ltrs. exclusively for Firefighting purpose with replenishing arrangements @ 1000 ltrs./min. Preferably from two different sources of water supply shall be provided. The aforesaid water reservoirs shall have overflow arrangement to avoid stagnancy of water. The water reservoir shall be kept full at all time.

5. FIRE PUMPS: -

1. Two Electric Driven (One for Hydrant Riser System and One for Sprinklers and Water Curtain System) and One Diesel Driven (As Standby) each having discharge capacity 2850 Ltrs./Min. and Two Jockey each having discharge capacity of 180 Ltrs./Min. Fire Pumps to be provided in a Fire Pump House at minus level from the U/G/ reservoir so as to facilitate the positive suction facilities for all the Fire Pumps.
2. All the Fire Pumps shall be provided with Auto Start Arrangement with Back - up Power supply through Diesel Generator of adequate capacity.

6. HYDRANT SYSTEM:

1. The building shall be provided with 150 mm. Riser along with Landing Valves on all floors at every distance of 30 Mtrs. Along with hose reel hose connected to both the Under Ground and Over Head tank through the Fire Pumps at Mines level beside U/G/ Reservoir and terrace pump of 900 LPM capacity. The system shall be so designed that shall be kept charged with Water all the time under pressure and shall not be less than 3.5Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.
2. There shall must be a minimum 3.5 Kgs./Cm² pressure at any point of Discharge from the Hydrant Riser.

3. Proper Replenishing Arrangement shall have to be made to keep the O.H.W.R. full at all time.

7. SPRINKLERS INSTALLATION: -

The buildings shall be fully covered and protected by good qualities of Sprinklers

installations. Provision of testing of Sprinklers on every floor shall be available.

8. 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 audio-visual panel board shall be made in 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. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will sounded on the same floor and immediate alternate floor.
3. The buildings shall be covered fully by installing Smoke Detectors and ancillary panel of good and reliable qualities.

9. 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. Fire Extinguishers.
3. Alternative Power Supply :

Arrangements shall have to be made to supply power with the help of Diesel Generator to operate at least the Fire Pump, Pump for deep Tube-well, Fire Alarm System, etc. and also for illuminating the Staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

10. FIRST AID FIRE FIGHTING SYSTEM:

First Aid firefighting arrangement in the style of placing suitable type 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.

11. GENERAL RECOMMENDATIONS:

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 Floor numbers and directional sign of escape route shall be displayed prominently.

4 The employees and security staff shall be conversant with installed Fire Fighting equipment's of the building and to operate in the event of Fire and Testing.

5 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.

6 A trained Fireman 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.

8 Each year 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 and installation of the building.

12. On compliance of all the 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 favor of the occupancy shall be issued on being satisfied with the tests and performances of safety provisions and installation of the building.

13. N.B.: Any deviation and changes towards the nature and use of the building in respect of the approved plan drawing, without obtaining prior permission from this Office, if found, this Fire Safety Recommendation will be treated as cancelled.

Director
West Bengal Fire & Emergency Services

Signature valid
Digitally signed by TARUN
KUMAR SINHA
Date: 2020.05.27 12:47:33 IST