



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

Memo no.: 0125189229100131

Date: 15-03-2022

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

To: Mr. Meghnath Ghosh.
Mouza- Beliatare, Bankura, R.S Plot no. 239/1678, 239/1679, L.R Plot no. 239/1678,239/1679, R.S Kh. no. 391, L.R Kh. no. 391, J.L no.130, Beliatare, Dist. Bankura, Pin - 722203.

Sub: Fire Safety Certificate for the occupancy of Proposed construction of G+8 storied building under group Commercial cum Residential building, infavour of, Mr. Meghnath Ghosh at the premises Mouza- Beliatare, Bankura, R.S Plot no. 239/1678, 239/1679, L.R Plot no. 239/1678, 239/1679, R.S Kh no.391 L.R Kh. no. 391, J.L no.130, Beliatare, Dist. Bankura, Pin - 722203.

This is in reference to your application no. 0125189229100131 dated 17-01-2022 regarding the Fire Safety Certificate for the occupancy of proposed construction of G+8, storied building under group residential cum Commercial building, infavour of, Mr. Meghnath Ghosh, at the premises, Mouza- Beliatare, Bankura, R.S Plot no. 239/1678, 239/1679, L.R Plot no. 239/1678,239/1679, R.S Kh. no. 391, L.R Kh. no. 391, J.L no.130, Beliatare, Dist. Bankura, Pin - 722203.

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 proposed building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.
- 2.The floor area exceeds 750m² shall be suitably compartmented by separation walls up to ceiling level having at least twohours Fire resisting capacity.
- 3.The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
- 4.Provision of ventilation at the crown of the central core-duct of the building shall be provided.
- 5.Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.

Open Space & Approach:

- 6.The open space surrounding the building shall conform the relevant building rules as well as permit the

accessibility and manoeuvrability of Fire appliance with turning facility.

7. The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T

8. The width and height of the access gates into the premises shall not less than 4.5-5M respecting abutting road.

9. Provision for 2nos. stair case, accessible from each floor i.e. remote from each floor they are accessible in at least two different direction from every point any open area, or from any door. Otherwise this F.S.R. will be cancelled.

10. 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.

11. The staircase of the building shall have permanent vents at the top and open able sashes at each floor level in the external wall of the building.

12. 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 well as rules of the cinematograph Act. With up-to-date amendments.

13. All the staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

14. Fire and smoke doors at the entrances of all the Staircase enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour Fire resisting wire glass window fitted with self-closing type open able in the direction of escape.

Fire Fighting Water:

15. Underground water reservoir having water capacity at 30,000 ltrs. and overhead reservoir of 10,000 ltrs. capacity exclusively for Fire fighting purpose with replenishing arrangements @ 1000 ltrs./min. Preferably from two different sources of water supply shall be provided. The water reservoir shall have overflow arrangement with the domestic water reservoirs well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.

Hydrant System:

16. The buildings shall be provided with separate Wet Riser for sprinkler system & hydrant system of 150mm. internal diameter Pipe Line in each block 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.

17. The system shall be so designed that shall be kept charged with Water all the time under pressure and capable to discharge 2850 ltrs/min. at the ground floor level outlet and minimum 900 ltrs/min. at the top most and furthest outlet. In both cases the running pressure shall not be less than 3.5kgs/sq.cm. All other requirements shall be conforming I.S. 3844 –1989.

18. Provision for Hose Reel units on swiveling drum in conjunction with Wet Riser shall be made near each landing valves.

19. Yard Hydrant / Ring Main Hydrant with provision of adequate numbers of Pillar type Hydrant shall be installed surrounding the buildings in accordance with relevant I.S. specifications.

20. Provision of suitable Fire Service Inlet shall be made as per relevant I.S specification.

21. The building shall be provided with down comer of 100mm internal diameter pipe line 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.

22. The system shall be so designed that shall be kept charged with Water all the time under pressure and capable to discharge 1620 ltrs /min at the ground floor level outlet and minimum 900 Ltrs/min at the top most outlet. In both cases the running pressure shall not be less that 3.5 Kgs/Cm². All other requirements shall conform I.S. 3844-1989.

23. Provision for Hose Reel in conjunction with down comer shall be made at each floor level conforming the relevant I. S. Specifications Provision for down comer shall be made at each floor level. Conforming the relevant I. S. Specifications.

24. Two main fire pump and one standby pump, of capacity minimum 1620 LPM and head of the pump will be such that 3.5 Kg/cm² pressure is available at the furthest/highest landing valve to be installed. Auto start facility should be incorporated in fire pump. Accordingly, Jockey pump of capacity 180LPM shall also be installed, conforming to the norms of National Building Code part-IV-fire and life safety. Car parking area at Ground Floor & Commercial area will be provided required nos. Sprinkler.

SPRINKLER INSTALLATION:

25. The automatic Sprinkler installation shall be provided in the all floor areas of each block, as per I.S. 9972 and alarm gong to be incorporated along with the sprinkler system.

LIFT:

26. The walls of the lift enclosure of the buildings shall be at least two hours FIRE resisting type and all the lift lobbies and shafts shall be pressurized as per existing norms and provision of NBC Part IV, 2016.

FIRE PUMP:

27. Provision of the Fire Pumps 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 respective pump room. One such pump shall always be kept on stand-by of diesel driven type.

28. Provision of separate pump for sprinkler system to be made to keep the Water based system under pressurized condition at all the time and shall be installed.

29. Provision of separate Jockey Pumps shall also have to be made to keep the Water based suppression systems i.e. hydrant and sprinkler system separately under pressurized condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. 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:

30. The One Number and type of fire pumps shall be as per provision of N. B. C. Part – IV, 2016.

ELECTRICAL INSTALLATION & DISTRIBUTION:

31. The electrical installation including transformers, Switch Gears, L. T., H. T. Rooms, panel rooms, 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.

32. Electrical distribution system of the building shall be made in the form of concealed wiring or in heavy gauge M.S. conduit continuously bonded to earth. Cables shall be I.S. marked and be of F.R.L.S. categories.

33. The vertical & horizontal ducts shall be sealed at all floor level by approved fire resisting materials.

34. The electrical installation shall be adequately protected with automatic fire detection and suppression system as per provision of N. B. C. Part– IV, 2016 and relevant I. S. specification.

Alternative Power Supply :

35. 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 Detection and Alarm System, pressurization, ventilation, signage etc. and also for illuminating the Staircases, corridors etc. and other places of assembly of the building in case of normal power failure.

Signature valid

Digitally signed by ABHIJIT

PANDEY

Date: 2022.03.15 13:01:51 IST

Director
West Bengal Fire & Emergency Services

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