

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIVISIONAL FIRE OFFICER  
WEST BENGAL FIRE & EMERGENCY SERVICES**

Memo No : IND/WB/FES/20182019/26613

DATE: 06/03/2019

**From :**

**The Divisional Fire Officer  
Fire Prevention Wing,  
West Bengal Fire & Emergency Services.**

**To :**

**MR RADHAKANTA MONDAL AND OTHERS DEVELOPED BY MANALI CONSTRUCTION  
MR RADHAKANTA MONDAL SO GOUR CHANDRA MONDAL AND OTHERS  
DEVELOPED BY MANALI CONSTRUCTION G 4 STORIED RESIDENTIAL CUM  
COMMERCIAL BUILDING OVER RS PLOT NO-2029,2036 LR PLOT NO-4782, RS KH NO-  
674,1411,LR KH NO-5058,JL NO-119,MOUZA-BHIRINGI  
Durgapur F.S., Durgapur PS,  
Paschim Bardhaman - 713213 .**

**Sub :Fire Safety Recommendation for a proposed construction of G + 4 storied  
building under group Residential at the premises no.- MR RADHAKANTA MONDAL SO  
GOUR CHANDRA MONDAL AND OTHERS DEVELOPED BY MANALI CONSTRUCTION  
G+4 STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OVER RS PLOT NO-  
2029,2036 LR PLOT NO-4782, RS KH NO-674,1411,LR KH NO-5058,JL NO-119,MOUZA-  
BHIRINGI, Durgapur PS, Paschim Bardhaman - 713213**

This is in reference to your Application No. IND/WB/FES/20182019/26613,dated 06/03/2019,  
regarding the Fire Safety Measure for a proposed construction of G + 4 storied building  
under group Residential at the premises no.- MR RADHAKANTA MONDAL SO GOUR  
CHANDRA MONDAL AND OTHERS DEVELOPED BY MANALI CONSTRUCTION G+4  
STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OVER RS PLOT NO-2029,2036  
LR PLOT NO-4782, RS KH NO-674,1411,LR KH NO-5058,JL NO-119,MOUZA-BHIRINGI,  
Durgapur PS, Paschim Bardhaman - 713213.

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.
- 2.The floor area exceeds 750m<sup>2</sup> shall be suitable compartmented by separation wall 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 specifications,
- 4.Provision of ventilation at the crown of the central core- duct of the building shall be provided.
- 5.Arrangement 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 maneuverability of Fire appliance with turning facility.
- 7.The approach roads shall be sufficiently strong to with stand the loan of Fire Engine weighting up to 20 M.T.
- 8.The width and height of the access gates into the premises shall not be less than 4.5-5 M respecting abutting the road.

Staircase:

- 9.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.
- 10.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.
- 11.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.
- 12.All the staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.
- 13.Fire and smoke doors at the entrances of 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:

- 14.Overhead reservoir of 5000 ltrs capacity exclusively for Firefighting purpose with replenishing arrangements @ 1000 lts./min. Preferably from two different sources of water supply shall be provided. The water reservoir of 50000 lts 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.

#### Hydrant System:

15. The building shall be provided with down comer of 100mm internal diameter pipe line with provision of landing valves at the /staircase landing/half landings at the rate of one such riser of 1000 Sq m of floor area. The system shall be so designed that shall be kept charged with Water all the time under pressure and capable to discharge 1850 lts/min at the ground floor level outlet and minimum 900 Lts/min at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kgs/Cm<sup>2</sup>. All other requirements shall conform I.S. 3844-1989.

16. 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.

17. One main Fire pump and one standby pump, preferably diesel driven of capacity minimum 1850 LPM and head of the pump will be such that 3.5 Kgs/cm<sup>2</sup> pressure is available at the furthest/highest landing valve to be installed. Auto start facility should be incorporated in fire pump. Accordingly, Jokey pump of capacity 180LMP shall also be installed, conforming to the norms of National Building Code part-IV fire and life safety.

#### Electrical installation & Distribution :

18. 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 Firesafety in general building as laid down in I.S specification 1946-1982.

19. The vertical ducts shall be supply sealed at alternative floor level.

20. The major electrical installation shall be adequately protected with CO<sub>2</sub>/D.C.P or Medium Velocity/ Projector System.

#### Alternative Power System:

21. Arrangement 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 the building in case of normal power failure.

#### Detection and Alarm System:

22. 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, talk back 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. 2089-1988.

23. Hooter will be sounded in such a manner so that an operation of a Detector or Manual Call Point Hooters will be sounded on the same floor and immediate alternate floor.

#### Public Address System:



24. Public address system linked between all floors and Control Room shall have to be established.

Air Conditioning System(if any):

25. The A.H.U shall be separated for each floor with the system Air Ducts for individual floors.

26. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning system.

27. The system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.

28. The air handling units room shall not be used for storage of any combustible materials.

First Aid Fire & Fighting System:

29. First Aid Fire fighting 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.

General Recommendations:

30. Fire License shall have to be obtained for proposed storing and processing with L.P.G and other highly combustible articles.

31. Fire Notice for Fire Fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.

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

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

34. 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.

35. A crew of trained Fireman under the experienced Officer shall be maintained round the clock for safety of the building.

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

37. 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.

38. This shall be tested as provisional N.O.C. 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. Final N.O.C. in favor of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the building .

39. 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.

**Divisional Fire Officer  
West Bengal Fire & Emergency Services**

Validity unknown

Digitally signed by NITAI  
CHATTOPADHYAY  
Date: 2019.03.06 16:57:59 IST