



Government of West Bengal
Office of the Divisional Fire Officer
West Bengal Fire & Emergency Services
Ghoshpara Road, P.O.:- Bengal Enamel, Pin :- 743122

Date : 01-05-2025

Memo No.: FSR/211862506300012066

From :
Divisional Fire Officer
North 24 Parganas Division
West Bengal Fire & Emergency Services

To :
M/s. Singh Construction
Mouza- Chharuhhat, JL No- 75, L.R. KH No- 1398,1399, L.R. DAG No- 612, Holding No-118,119, P.S- Amdanga,
24PGs(N), 700121

Sub: Fire Safety Recommendation in respect of an existing G+IV storied Commercial Cum Residential building under the group of Residential , in the name & style as "M/s. Singh Construction " at the premises: MOUZA- CHHARUHAT, J.L. NO- 75, L.R. KH NO- 1398,1399, L.R. DAG NO- 612, HOLDING NO-118,119, P.S- AMDANGA, 24PGS(N), PIN-700121..

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This is in reference to your AIN 211862506300012066 dated 05-Mar-2025 regarding Fire Safety Recommendation in respect of an existing G+IV storied Commercial Cum Residential building under the group of Residential , in the name & style as "M/s. Singh Construction " at the premises: MOUZA- CHHARUHAT, J.L. NO- 75, L.R. KH NO- 1398,1399, L.R. DAG NO- 612, HOLDING NO-118,119, P.S- AMDANGA, 24PGS(N), PIN-700121.

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 for compliance of the following fire safety measure.

Recommendation :

A. CONSTRUCTION:

1. The whole construction of the existing building shall be carried out as per approved plan drawings conforming the relevant building rules of local Municipal Body.



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2. The floor area exceed 750 m² shall be suitable 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 of low flame spread materials conforming to I.S. specifications.
4. Provision of ventilation at the crown of the central core-duct of the building shall be provided.
5. Roof is used as a refugee area in case of an emergency and it should be clear open to sky for all time. No permanent or temporary structure will be allowed on the roof.
6. Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.
7. Natural & Mechanical ventilation system in adequate nos. & capacity shall be provided at Ground floor of the building as per NBC part- IV.

B. OPEN SPACE & APPROACH:

1. The approach road 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 4M and 5M respecting abutting the road.

C. STAIRCASE:

1. The staircase of the building shall be enclosed type. Entire construction shall be made of bricks / RCC type having Fire Resisting Capacity not less than 4 hours.
2. 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.
3. The width of the Staircase shall be made as shown in the plan. Corridors and the exit doors shall conform the relevant building rules with up to date amendments.
4. All the staircases shall be extended up to terrace of the building and shall be negotiable to each floor without entering any occupied area.

E. FIRE FIGHTING WATER:

Underground water reservoir having water capacity at 30000 ltrs. and overhead reservoir of 20000 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 reservoir as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.

F. HYDRANT SYSTEM:

1. The whole building shall be provided with Down comer of 100 mm 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. The system shall be so designed that shall be kept charged with water all the time under pressure and capable to discharge 900 L.P.M. at the ground floor level outlet and minimum 900 L.P.M. 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 confirm I.S.3844-1989.
2. Hose Reel Hose & half landing shall have to be arranged for each floor as per proper I.S specification.
3. Adequate number of Hydrants shall be installed surrounding the building in accordance with relevant I.S. specification.
4. 01 no. two way collecting head for uses of Fire services must be provided at the entrance of the building.

G. SPRINKLER ISNTALLATION :

The automatic Sprinkler installation shall be installed at all the floor area of ground floor & first floor of the building as per I.S.9972. Alarm gong to be incorporated along with the sprinkler system. as per I.S



specification.

H. FIRE PUMP:

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 building. One such pump shall always be kept on stand-by . All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall preferably of positive type.

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. 1946-1982.

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

3. The electrical installation shall be adequately protected with CO₂/ D.C.P.

4. The electrical installation of L.T & H.T connection should be arranged outside of the building.

Alternative power supply – arrangements shall have to made to supply with the help of a generator to operate at least the Fire Pump, Pump for deep tube well, Fire Alarm System, etc. and also for illuminating the staircase, platform of the plaza etc and other places of assembly of the building in case of normal power failure.

J. DETECTION AND ALARM SYSTEM:

1. Auto fire detection system with the help of heat and smoke detector shall be installed in all places of below and preferably above false ceiling of the ground floor & first floor of the building. The system shall also be made in places of rooms where valuable articles have been kept. The other requirements of the system shall be made in accordance with I.S. 2189-1988

2. 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 ground floor & first floor connecting with 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 to I.S 2189-1988.

3. Hooters will be sounded in such a manner so that an operation of a Detector or a Manual Call Point Hooter shall be sounded on the ground floor to top most last floor.

K. Air Conditioning System :

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

2) Arrangement shall be made for isolation at the strategies location by incorporating auto damper in the Air Conditioning System.

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

4) The air handling unit's room shall not be used for storage of any combustible materials.

L. FIRST AID FIRE FIGHTING SYSTEM:

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. 2190-92.

M. GENERAL RECOMMENDATIONS:

1. Fire license shall have to be obtained for proposed storing and processing with LPG and other combustible articles (if any).

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 the 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 crew of trained Firemen under an experience officer shall be maintained round the clock for fire safety of the building.

7. To eliminate risk of Fire Hazards, Good House Keeping both for insides and outside of the building shall be strictly maintained. No combustible/ Hazardous articles shall be stored inside the building.

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

9. 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. On compliance of all the above Fire and Life Safety Recommendation, the Director General, West Bengal Fire and 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 installations of the building.

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

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Signature Not Verified

Digitally Signed.
Name: SAROJ KUMAR BAG
Date: 01-May-2025 21:07:00
Reason: D-Sign
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Divisional Fire Officer

West Bengal Fire & Emergency Services

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