

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIVISIONAL FIRE OFFICER  
WEST BENGAL FIRE & EMERGENCY SERVICES  
G.T. Road, Bosepara, Mahesh-1, P.S. - Serampore, Pin -  
712202**

Memo No : IND/WB/FES/20192020/56344

DATE: 19/07/2019

**From :**

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

**To :**

**MONDAL CONSTRUCTION COMPANY LIMITED  
HARIDRADANGA DHARMATALA MAIN ROAD, CHANDANNAGORE, HOOGHLY.  
Chandannagar F.S., Chandannagar,  
Hooghly - 712136 .**

**Sub : Fire Safety Recommendation for a proposed construction of G + 4 storied building under group Residential at the premises no.- HARIDRADANGA DHARMATALA MAIN ROAD, CHANDANNAGORE, HOOGHLY., Chandannagar, Hooghly - 712136**

This is in reference to your Application No. IND/WB/FES/20192020/56344, dated 19/07/2019, regarding the Fire Safety Measure for a proposed construction of G + 4 storied building under group Residential at the premises no.- HARIDRADANGA DHARMATALA MAIN ROAD, CHANDANNAGORE, HOOGHLY., Chandannagar, Hooghly - 712136.

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.

Recommendations

#### A) CONSTRUCTION

- 1) Construction and layout of the building shall remain same as per approved plan and shall never be altered in any part of the building except marked portion and construction should be made as per building rule
- 2) Material for rapid flame spread categories including untreated wood, fibred board etc shall be not used. The door and widows preferably shall be made of metal
- 3) Arrangement shall have to be made for sealing all the vertical ducts by the materials of adequate fire resisting capacity
- 4) All the marked construction should be done with proper fire rating things.

#### B) OPEN SPACE AND APPROACH

- 1) The open spaces surrounding the premises shall confirm the relevant building rule,
- 2) The approach road shall be sufficiently strong to withstand the load of fire engine
- 3) The width and height of the access gate into the premises shall not be less than 4,5 m and 5 m respecting the abutting road
- 4) Drive way should be free from any type of obstruction. No parking will be allowed on the drive way.
- 5) All the Passage way should be made as mentioned in the plan

#### C) STAIRCASE:- if applicable

- 1) The staircase should be made as marked in the plan with fire resisting construction.
- 2) At least two exit should be provided at all floor
- 3) The width of the staircase should not be less than 1.250 mm corridor and the exit doors shall confirming the relevant building rules.

#### D) EXIT

- 1) Every exit door way shall be open into an horizontal exit of corridor
- 2) Exit width will be as mentioned in the N.B.C Part IV
- 3) All the marked exit should be made before taking N.O.C

#### E) ELECTRICAL INSTALLATION & DISTRIBUTION

- 1) The electrical Installation including transformers, switch gears, Main & Meters etc of the building should be in separate places conforming the code of practice and as per Indian electricity rules
- 2) The Vertical ducts should be sealed with fire resisting materials
- 3) All the cables should be painted by fire stop.

- 4) All the electrical Installation should be protected by suitable type suppression system
- 5) Electrical distribution system of the premises shall be made in the form of concealed wiring or heavy gauge M.S conducted continuously bonded to the earth cables shall be I.S marked and preferably be of F.R.L.S categories.

- 6) Alternative power supply to be provided in the building for powered all in built protection system in the building

#### F) FIRE FIGHTING WATER AND FIRE PUMP

- 1)Overhead Water reservoir capacity should be 10000 lits to be installed in the building
- 2)Suitable replacement arrangement has to be provided at least from one source at the rate of 180 lits/ min
- 3)Man hole shall be made on the top of the reservoir as per specification
- 4)All the Hydrant should be satisfying the code of practice
- 5)Main Fire Pump having discharge capacity not less than 180 LPM along with standby Pump to be installed in the site.

#### G)WATER LAYOUT SYSTEM

- 1)80 mm ring down comer to be provided in the building conforming I.S 3844-1989 ( up to date amendment ) and T.A.C
- 2)The system shall be designed that shall be always be kept charged with water under pressure and capable to discharge not less than 180 Ltrs./min at the pressure of 3.5 Kg /sq cm at furthestmost point
- 3)All other requirements of the water base fire protection system shall be made as per I.s specification 3844-1989 ( with up to date amendment)
- 4)Hose reel should be so arranged so that it reach all the corner of the building .

#### H)DETECTION AND SUPPRESSION SYSTEM

- 1)manual call boxes incorporating with sounders shall installed in all the areas of the building shed in such a manner that maximum travel distance shall not be more than 22,5 m in order to reach at any of the cal point
- 2)All the installation shall also satisfy the I.S specification 2189 as amended and the code of practice.

- 3)MCP along with Hooter should be provided in the building , Hooter will be so arranged so that sound can he hear from any corner of the building
- 4)P.A System should be provided along with control room at the entrance of the shed.

#### I)FIRST AIT FIRE FIGHTING SYSTEM

- 1)First aid fire fighting arrangements should be done as per I.s 2190-1992

#### J)General recommendation

- 1)Fire Notices for the fire fighting and evacuation from the building shall be prepared and be displayed at all vulnerable points of the building
- 2)All the Occupants should be trained for the fire protection system of the building
- 3)Arrangement shall be made for regular testing and maintenance of the system
- 4)Drill should be carried out at least once in a year and record should be maintained for the drill
- 5)Alternative power supply should be provided for the operation of all the fire protection system in the building
- 6)Proper housekeeping should be maintained in the building
- 7)All the marked work in the building should be done before taking N.O.C from this

department.

8) License should be taken for the combustible material of the storage building

9) Storing of combustible and noncombustible, flammable and combustible materials should not be done without prior permission of Fire Services

Above fire and life safety recommendation the director general of West Bengal fire and emergency Services shall be approached for necessary inspection and testing of the installation, final safety certificate of the building shall be issued on being satisfied with the test and performance of the safety aspects of the installation of the building.

All the recommended work should be done within one year of date of issue of the letter.

Note: - i) On compliance of the aforesaid recommendations up to the satisfactions of this department & as per the scale as advised from this end, Final Fire Safety Certificate shall be issued.

ii) The Fire Service recommendations are issued subject to the free from any Court Case or legal re-encumbrances.

2.

Recommendations

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

Signature Not Verified  
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KUMAR MONDAL  
Date: 2019.07.19 13:13:42 IST