

Government of West Bengal
Office of the Deputy Director (West Zone)
West Bengal Fire & Emergency Services
430, G.T. Road, Howrah

Memo No.; WB FES/PBM/16/15

Date 26/12/15

From:- Director General
West Bengal Fire & Emergency Services



To: Bidyul Maity
President of Moyna Nirekananda Mission
Teachers Training College
Gopalchak, Moyna, Purba Medinipur

Sub:- Fire safety recommendation of Existing Moyna Nirekananda
Mission Teachers Training College at vill - gopalchak,
PO + P.S. Moyna, Dist - Purba Medinipur.

Sir,


This is in reference to your letter Dt. 9.12.15 regarding Fire Safety measure for existing G+3 storied construction undergroup of Educational at premises as mention under subject.

The plan drawing submitted by you were 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 favour of the above said building subject to the compliance of the following fire safety measure.

End.:

1. On set Plan
2. Recommendation

Yours faithfully,


26/12/15
Divisional Fire Officer
Deputy Director Purba Medinipur Division
West Bengal Fire & Emergency Services

GENERAL DIRECTIVES OF FIRE & LIFE SAFETY RECOMMENDATIONS FOR THE EXISTING CONSTRUCTION OF EDUCATIONAL BUILDING

A. Open Space & Approach:

1. 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.
2. The approach road shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 MT
3. The width and height of the access gates into the premises shall not be less than 4.5 – 5 m respecting abutting the road.

B. STAIRCASE:

1. Entire construction shall be made of bricks/ R.C.C type having Fire resisting capacity not less than 4 hours.
2. Two nos. of Exit Doors must be provide for each class room facing verandah or corridor of minimum width 2 meters.
3. The width of the staircases shall be made. Corridors and the exit doors shall conforming the relevant building rules as per approved plan.
4. All the staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.

C. EXIT:

1. No exit door from any classroom of any floor in a distance is not more than 22.5 meters. if so another staircase must be provided. The travel distance to and exit from a dead end of a corridor in a educational building shall not exceed 6 meter.
2. Exits shall be so arranged that at least two separate exits are available in every floor area. Exits shall be as remote from each other as practicable and so arranged that there are no pockets or dead end occurred in which occupants may be happed
3. Every exit door way shall open into an enclosed stairway or a horizontal exit or a corridor
4. Every room with a capacity of over 45 persons in area shall have at least two way.

D. FIRE FIGHTING WATER & FIRE PUMP:

1. Under ground water reservoir having water capacity of ~~30,000~~ 05,000 Lts. and Overhead Reservoir of 05,000 Lts capacity are to be provide along with provision of hose reel hose in condention with down comer shall be made at each four lable with landing valve & fire service in late at ground lable conforming relevant IS specification.
2. Adequate Nos. of synthetic delivery hose as per requerment in each floor and suitable branch pipe with 12 mm. nozzle to be provided near landing valve in glass fitted woodenbox as per IS specification.

E. LIFT. ³⁾ *Hose reel (30m) to be provided at each stair landing of the floor.*

1. The walls of the lift enclosure shall be at least two hours fire resiting type. Collapsible gate shall not be permitted.
2. One of the lifts shall be designed for Fire Lift. The word "FIRE LIFT" shall conspicuously be written at ground floor.
3. The lift installed to enable Fire services personel to reach different floor with minimum delay, having such feature as required in accordance with this part.
4. All lifts & lift lobbies run to the basement shall have to be pressurized as per guide line of N.B.C. Part - IV

F. Electrical Installation & Distribution:-

1. The electrical installation including transformer, switch gears, main & meters etc. and distribution system of the premises shall be made satisfying the code of practice for fire safety in general building as let down in IS specification 1946-1982.

2. The electrical installation shall be adequately protected with CO2/DCP/ABC type of extinguisher.

3. Alternative power supply arrangements shall have to be made to supply power with the help of generator to operate at least the fire pump, pump for deep tube well, fire alarm system, fire lift etc & also for illumination the staircase, corridors etc & other places of assembly of the building in case of normal power failure.

G. Basement:-

1. The basement shall be adequately ventilated.

2. Additional staircase from the open air as shown in the drawing shall constructed beside the ramp conforming relevant IS specification.

3. The basement shall be protected with auto sprinklers system/hose reel system etc.

4. Mechanical extractor for smoke venting system for lower /upper basement level shall also be provided. The system shall be of such designed as to operate on actuation of heat /smoke sensitive detector or sprinkling. It shall also have an arrangement to start it manually.

5. Mechanical extractors shall have an alternative source of supply.

6. Haphazard storing, kitchen, restaurant, night stay etc. shall be discarded.

H. Air Conditioning System (if any)

1. The AHU shall be separated for each floor with the system air duct for individually floor.

2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dumpers in the air condition system.

3. The system auto shut down of AHU shall be incorporated with the auto detection and alarm system.

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

H(I). Fire Fighting Pump:-

1. Replenishment arrangement from deep tube well for U/G and O/H water reservoir shall be kept exclusively for fire fighting purpose @ 1000 LPM. and the reservoir shall be kept full at all time.

2. Fire pump at terrace level for supplying water at the designated pressure for down comer/hose reel/ sprinkler @ 900 LPM at terrace level shall be installed.

3. Down comer having at least 100mm internal diameter pipe line shall be installed.

I. 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. 2190-1992.

J. GENERAL RECOMMENDATION:

1. Fire License have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.
2. Kitchen, Canteen & Dining hall must have permanent nature made of R.C.C. and separate accommodation not adjacent to any class room and not to be provided in the upper floor of the school building.
3. Chemicals used in Laboratory must be kept in separate isolated store in proper sealed containers. Laboratory Assistant must be alert for its maintenance during closing by lock & key after class hour for any spillage, fumes, loosen caps, corrosiveness, acids, main valves for Bunsen Burners etc.
4. Fire notice for fire fighting and evacuation from the building shall be prepared and be displayed at all vulnerable places of the building.
5. Floor numbers and directional sign of escape route shall be displayed prominently.
6. All teaching and non teaching staff should have adequate knowledge of handling fire protection equipment, evacuation process of students in time of emergency and prevention measures.
7. Arrangement shall be made for regular checking, testing and proper maintenance of all the fire safety installation and equipments installed in the building to keep them in perfectly good working conditions at all times.
8. Drills : Must be acquainted with evacuation passage of escape route by practicing as a drill with all teaching and non-teaching staff along with students by the guidance of head of institution as a drill every month as a special class and records of which must be kept in their custody.
9. This shall be treated as provisional N.O.C. and final N.O.C. will be issued after complied the recommendation and each year a certificate is to be obtained from the Director General, West Bengal Fire & Emergency Service certifying about the satisfactory service, performance of all the Life and Fire Safety arrangement and installation of the building .

N.B. :- Any violation & changes the nature of use of the building in respect of the approved plan drawing with out obtaining prior permission from the office, the provitional NOC will be treated as cancelled.

M. Linde
26/12/15
DEPUTY DIRECTOR
W.B. Fire & Emergency Services
Divisional Fire Officer
Purba Medinipur Division
W.B. Fire & Emergency Services