

GOVERNMENT OF WEST BENGAL
Office of the Director General
West Bengal Fire & Emergency Services
13-D, Mirza Ghalib Street, Kolkata - 700 016.

Memo No: WBFES/ 2432 /17 /IND/WB/FES/20182019/46340 Date: 22.05.19

From : Divisional Fire Officer
Fire Prevention Wing
West Bengal Fire & Emergency Services

To : The Authorized Signatory
'Haradhan Addhya Memorial School'
Mouza- Chhaighara
P.S.-Petrapole
Dist-24 Pgs(N)
Pin No.743704

Subject: Fire Safety Recommendation for proposed construction of G+II storied under group Educational Building, in the name of 'Haradhan Addhya Memorial School' at premises no. J. L. NO. 115, RS+LR-629, 631, Khatian No. 4072, 4120, Mouza- Chhaighara, P.S.-Petrapole, Dist-24 Pgs(N), Pin No.743704.

This is in reference to your Application Id: IND/WB/FES/20182019/46340 regarding the Fire Safety measures for proposed construction of G+II storied under group Educational Building, at premises no. J. L. NO. 115, RS+LR-629, 631, Khatian No. 4072, 4120, Mouza- Chhaighara, P.S.-Petrapole, Dist-24 Pgs(N), Pin No.743704.

The plan drawing 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 favour of the aforesaid building subject to the compliance of the following fire safety measures.

Encls. :

1. One set of plan
2. Recommendation


Divisional Fire Officer
Fire Prevention Wing
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From: Divisional Fire Officer
Fire Prevention Wing
West Bengal Fire & Emergency Services

To: The Authorized Signatory
Haradhan Addhya Memorial School
Mouza: Chhaighara
Police Station: Petrapole
District: 24 Pgs (N)
Pin Code: 743 704

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Divisional Fire Officer
Fire Prevention Wing
West Bengal Fire & Emergency Services

Haradhan Addhya Memorial School
Chhaighara, Petrapole, 24 Pgs (N)
Pin Code - 743704

A. CONSTRUCTION:

- 1) The whole construction of the proposed building shall have to be maintained as per approved plan drawings confirming the relevant building rules of local body.
- 2) The interior finish decoration of the building shall be made low flame spread materials confirming I.S. specifications.
- 3) Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire resisting capacity.
- 4) Roof shall be used as refuge area in case of exigency and any obstruction of temporary structures shall not be permissible in the open terrace area.

B. OPEN SPACE & APPROACH:

- 1) The open space surrounding the building shall confirm the relevant building rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
- 2) The approach roads shall be sufficiently strong to withstand the load of Fire Engine weighting up to 20 M.T.
- 3) The width and height of the access gates into the premises shall not be less than 5 M. - 5.5 M. respecting abutting the road.

C. STAIRCASE:

- 1) 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.
- 2) The staircase of the building shall have permanent vents at the top and openable sashes at each floor level in the external wall of the building.
- 3) 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.
- 4) The staircase shall be extended up to terrace of the building and shall be negotiable to each other without entering into any room.
- 5) MS staircase shall have to be constructed as marked in the plan drawing.

D. LIFT:

- 1) The walls of the lift enclosure shall be at least two hours Fire resisting type. Collapsible gate shall not be permitted.
- 2) One of the lift shall be designed for Fire Lift the word "FIRE LIFT" shall conspicuously write at ground floor
- 3) In case of failure of normal electricity supply, it shall automatically trip to alternate supply and also shall have manually operated change over facility. Alternatively, the lift shall be so wired that in case of power failure, it comes down at the ground level stands still with door open

E. FIRE FIGHTING WATER:

Overhead water reservoir of 30,000 liters exclusively for Firefighting purpose with replenishing arrangements @ 1,000 liters/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 building shall be provided with Down corner along with hose reel hose connected to terrace tank through the terrace pump 900 LPM capacity along with same capacity stand-by pump and provided one 100 mm. internal diameter Pipe Line with provision of landing valves at the Staircase landings/half landings at the rate of one such user for 1,000 sq. m. of floor area. The system shall be so designed shall be kept charged with Water all the time under pressure and shall not be less than 3.5 kg. / Sq. cm. All other requirements shall confirming I.S. 3844-1989.
- 2) Yard Hydrant with provision of two numbers Hydrant with one number Fire Service Inlet shall be installed the building in accordance with relevant I.S. specification.
- 3) Proper Replenishing Arrangement shall have to be made to keep the U.G.W.R. & O.H.W.R. full at all time.

G. 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. specification 1946-1982.
- 2) The vertical & horizontal ducts shall be sealed at alternative floor level by fire resisting material.
- 3) The electrical installation shall be adequately protected with CO_2 / D.C.P. Fire Extinguishers.
- 4) Alternative Power Supply 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 Alarm System etc. and also for illuminating the staircase, corridors etc. and other places of assembly of the building in case of normal power failure.

H. DETECTION & ALARM SYSTEM:

- 1) Manually operated Electrical Fire Alarm system with at least two numbers of break glass type call boxes fitted with Hooters along with public address 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

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building, other requirements of the system shall be made conforming I.S. 2189-1988.

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

I. AIR CONDITIONING SYSTEM (If Any):

- 1) Joints must be avoided in AC wires. It must be ensured that all AC units are comprehensively serviced before operation and filter is cleaned regularly through authorized service agency which increases cooling as well as results in less electric consumption.
- 2) Never use AC units on normal plug points or temporary extension boards except on covered MCB's.
- 3) Switch off air conditioners, lights, fans exhaust fans, heat convectors, fax machines, computer monitors, printers / scanners / UPS, inverter, photocopiers, TVs and other office equipments when they are not in use. Switch on only those lights, fans, air-conditions or other equipments which are required for functioning office. Do not leave air-conditioners, heat convectors, lights, fans and other electrical equipments and gadgets in 'ON' position when not required.
- 4) Keep the doors / windows of air-conditioned rooms close to avoid loss of conditioned air, provide automatic door closer. Use air-conditioner, fan / blowers and fans at low speed.
- 5) In summer reduce load on air-conditioners by putting curtains / blinds / shades on window.
- 6) Window type air-conditioners / split type AC's being highly energy intensive equipments, they should be serviced at least thrice in a year as per the recommendations of manufactures. The servicing included cleaning of air filters, cleaning of condensers / cooling coil, service and oiling of fan motors, checking of fasteners, checking of electrical spares, checking of current / voltage and checking of room temperature and grill temperature.
- 7) Replace old air-conditioners which have out-lived their useful life i.e. 7 years as per Competent authorized agency maintenance manual 2012 and have become unserviceable with star rated Energy Efficient air-conditioners.

J. FIRST AID FIRE FIGHTING SYSTEM:

First Aid firefighting 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 IS 2190-1992.

K. GENERAL RECOMMENDATIONS:

- 1) Fire license shall have to be obtained for proposed storing and processing with L.P.G. and other highly consumable articles.

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- 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) A crew of trained Fireman shall have to be maintained round the clock safety of the building.
- 5) The employees and security staff shall be conversant with installed Fire Fighting Equipments of the building and to operate in the event of Fire and Testing.
- 6) 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.
- 7) Mock fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
- 8) 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 recommendations, the Director General, West Bengal Fire & 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 installation of the building.

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

RECEIVED
FIRE SAFETY
24 AUGUST 2015