



Government Of West Bengal
Office Of The Divisional Fire Officer, Paschim Bardhaman
West Bengal Fire & Emergency Services
Asansol Fire Station, G.T. Road, P.O.:-Asansol,
P.S.:-Asansol(South), Pin :- 713301

Memo no.:FSR/0125186209102420.

Date: 20-03-2024

From:

Divisional Fire Officer, Paschim Bardhaman
West Bengal Fire & Emergency Services

To: Raniganj Lions J.D.M. Chanani DAV Public School.

Holding no. 114, Ward no. 93 , under A.M.C. , N.S.B. Road, P.O Raniganj, Mouza Searsole, Raniganj, Plot no. 5328, 5329, 5335, 5337, 5339, 5341, 5343 , 5349 , 25, J.L. no. 17, 24, P.S Raniganj, Dist. Paschim Bardhaman, Pin - 713347,

Sub: Revised Fire safety recommendation for the Existing construction of three nos. Block-A, B & C, Block - A & B, G+I & Block - C, G+II Storied Building under group Educational occupancy in favour of Raniganj Lions JDM Chanani D.A.V Public School, at the Holding/Premises no. 114, N.S.B. Road, Ward no. 93, under A.M.C, Mouza Searsol, Raniganj, Plot no. 5328, 5329, 5335, 5337, 5339, 5341, 5343, 5349, 25, J.L no. 17, 24, P.S Raniganj, Dist. Paschim Bardhaman, Pin - 713347.

This is in reference to your application no. 0125188249100008 dated 21-02-2024 regarding the Revised Fire safety recommendation for the Existing construction of three nos. Block-A, B & C, Block - A & B, G+I & Block - C, G+II Storied Building under group Educational occupancy in favour of Raniganj Lions JDM Chanani D.A.V Public School, at the Holding/Premises no. 114, N.S.B. Road, Ward no. 93, under A.M.C, Mouza Searsol, Raniganj, Plot no. 5328, 5329, 5335, 5337, 5339, 5341, 5343, 5349, 25, J.L no. 17, 24, P.S Raniganj, Dist. Paschim Bardhaman, Pin - 713347.

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 **Revised Fire Safety Recommendation** in favor of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

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 body.
- 2.The floor area exceeds 750 m2 shall be suitably 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 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.Arrangements shall have to be made for sealing all the vertical & horizontal ducts by the materials of adequate Fire resisting capacity.

OPEN SPACE & APPROACH:

- 1.The open space surrounding the building shall conform the relevant building rules as well as permit the accessibility and manoeuvrability of Fire appliance.
- 2.The approach roads, internal road / driveway shall be sufficiently strong to withstand the load of Fire Engine weighing up to 45 M.T.
- 3.The width of access gates into the premises shall not be less than 5M without any Height bar from the abutting road.
- 4.Internal passage way shall be maintained according to the approved plan all the Passage way should be kept clear for free access.

STAIRCASE:

- 1.The staircases of the building shall be enclosed type as shown. Entire construction shall be made of bricks/ R.C.C type having Fire resisting capacity not less than 2 hours.
- 2.The Staircases 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 conform the relevant building rules, with up-to-date amendments.
- 4.All the staircases shall be extended upto terrace of the building and shall be negotiable to each other without entering into any occupied area.
- 6.Considering the staircases are only means of evacuation, emergency lighting arrangement directional, exit, sign etc. shall be made conforming the relevant I.S. Code in this regards.

FIRE FIGHTING WATER:

- 1.Underground water reservoir having water capacity of 50000 ltr. and overhead reservoir having water capacity of 10000 ltr. each block as marked in the plan, 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.
- 2.In case of negative suction a Terrace tank with proper replenishment arrangement will have to be provided above the fire pump room connected with all fire pumps.
- 3.The deep tube wells for the replenishment of the reservoirs shall be incorporated with auto starting facility with actuation of auto detection and suppression arrangement of the premises and shall also be connected with dual power supply units.
- 4.Provision of placing Fire Appliances on the underground water reservoir to be made to draw water in case of emergency.

WATER LAYOUT SYSTEM: (For Each Block)

- 1.The building shall be provided with Wet Riser cum Down comer (feeding water from Underground water reservoir & Over Head Water Reservoir) 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 450 ltr/min. at the top most and furthest outlet. In both cases the running pressure shall not be less than 3.5 Kgs/Sq.cm. All other requirements shall conforming I.S. 3844 – 1989.
- 2.Provision for Hose Reel units on swivelling drum in conjunction with Wet Riser shall be made near each landing valves.
- 3.Yard Hydrant / Ring Main Hydrant with provision of adequate numbers Pillar type Hydrant shall be installed surrounding the buildings in accordance with relevant I.S. specifications.
- 4.Provision of three-way collecting head for uses of Fire Services must be provided at the entrance of the building.

FIRE PUMP: (For Each Block)

- 1.Provision of the Fire Pump (450 LPM) 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 respective pump room.
- 2.One pump same capacity shall always be kept on stand-by.
- 3.Provision of Jockey Pump (180 LPM) shall also have to be made to keep the Water based system under pressurized

condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of pumps shall be of positive type and in case of negative suction a Terrace tank with proper replenishment arrangement will have to be provided above the fire pump room connected with all fire pumps.

ELECTRICAL INSTALLATION & DISTRIBUTION:

1. Manually operated Electronics Fire alarm system shall be kept in the building. The electrical installation including transformers, Switch Gears, L. T., H. T. Rooms, panel rooms, 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. Electrical distribution system of the building shall be made in the form of concealed wiring or in heavy gauge M.S. conduit continuously bonded to earth. Cables shall be I.S. marked and be of F.R.L.S. categories.

3. The vertical & horizontal ducts shall be sealed at all floor level by approved fire resisting materials.

4. The electrical installation shall be adequately protected with automatic fire detection and suppression system as per provision of N. B. C. Part- IV, 2016 and relevant I. S. specification.

5. Alternative Power Supply:

Arrangements shall have to be made to supply power with the help of a DG Set to operate at least the Fire Pump, Pump for deep Tube-well, Fire Detection and Alarm System, signage etc. and also for illuminating the Staircases, corridors etc. and other places of assembly of the building in case of normal power failure.

DETECTION & ALARM SYSTEM:

1. Addressable analogue manual call boxes incorporating with sounders shall be installed in all floors area including basement of the building.

3. Fire alarm panel shall be installed and all shall also be connected with main panel at the Fire Control Room of the premises having direct dialling facility to the local fire service unit.

4. All the installations shall also be satisfy the I.S. specifications 2189 (as amended) and the code of practice as laid down in the N.B.C. Part-IV, 2016.

Public Address System:-

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

A well designed Fire Control Room having Fire Control Panel and monitoring 24X7 basis.

Preparation of Emergency Evacuation:

There is need to have a clear policy for emergency evacuation plan.

AIR CONDITIONING SYSTEM (If any):

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

2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers 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 units room shall not be used for storage of any combustible materials.

5. Escape route like staircase, common corridors, lift lobby etc. shall not be used as return air passage.

6. Wherever the ducts pass through Fire wall of floors, the opening a rounding the ducts shall be sealed with Fire resisting materials such as asbestos rope vermiculite concrete etc.

7. The materials used for insulating the duct system (inside or outside) shall be of non- combustible materials glass wool shall not be wrapped or secured by any materials of combustible nature.

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.

GENERAL RECOMMENDATIONS

1. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles (if any).

2. Necessary sanction and approval for such construction and occupancy of this project must be obtained from competent authorities.
 3. Lightning arrestor shall have to be installed as per existing norms and relevant IS specification.
 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. 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.
 7. The Department of Fire & Emergency Services, Government of West Bengal, shall not take any responsibility in respect of any legal dispute if pending or arises about the title of land / property.
 8. This Fire Safety Recommendation cannot be treated in any case of regularizations of any unauthorized construction.
 9. The management of the organization / building, as the case may be, shall maintain the fire prevention and safety measures in good repair and in efficient condition at all the times, which are installed in the building for use at the time of fire or other emergencies.
 10. A trained Fireman shall be maintained round the clock for safety of the building.
 11. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
 12. Accordingly, a certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services, performance of all the Fire and Life 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 fire & life safety aspects of the buildings.
- N.B. Any deviation and changes the nature of use of the building in respect of approved plan drawing, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Signature valid

Digital Signet
Name: SHAWAN KUMAR
Date: 20/04/2023
Reason: Not Over
Location: West Bengal

Divisional Fire Officer (Member Convenor),
Paschim Bardhaman
West Bengal Fire & Emergency Services



Government Of West Bengal
Office Of The Divisional Fire Officer, Paschim Bardhaman
West Bengal Fire & Emergency Services
Bhangakhuti, Purba Burdwan, P.O.:- Rajbati, Pin :- 713104

Memo no.: FSR/0125186209102420

Date: 15-03-2021

From:

Divisional Fire Officer, Paschim Bardhaman
West Bengal Fire & Emergency Services

To: Raniganj Lions JDM Chanani D.A.V Public School.

Holding no. 114, N.S.B Road, ward no. 93, under A.M.C, Plot no. 5341, 25, J.L no. 17, 24, P.S Raniganj, Dist. Paschim Bardhaman, Pin - 713347.

Sub: Fire Safety certificate for the existing construction of G+2 storied building under group Educational occupancy, in favour of "Raniganj Lions JDM Chanani D.A.V Public School" at the Premises/Holding no. 114, N.S.B Road, ward no. 93, under A.M.C, Plot no. 5341, 25, J.L no. 17, 24, P.S Raniganj, Dist. Paschim Bardhaman, Pin - 713347.

This is in reference to your application no. 0125189209100440 dated 10-03-2021 regarding the Fire Safety certificate for the existing construction of G+2 storied building under group Educational occupancy, in favour of "Raniganj Lions JDM Chanani D.A.V Public School" at the Premises/Holding no. 114, N.S.B Road, ward no. 93, under A.M.C, Plot no. 5341, 25, J.L no. 17, 24, P.S Raniganj, Dist. Paschim Bardhaman, Pin - 713347.

The performance of the Fire Fighting System as incorporated in the buildings were tested at random and found satisfactorily working condition. In view of the above this office is releasing the Fire Safety Certificate for occupancy of the aforesaid building.

Recommendation:

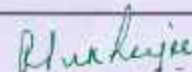
1. All the Fire Safety Recommendations/Revised Fire Safety Recommendations which were issued vide this Office Memo No. FSR/0125186209102420 Date: 31-05-2020 be followed strictly at all time.
2. Driveway must be free of any type of obstruction for easy movement of fire appliances. No parking will be allowed on the drive way.
3. The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specifications.
4. To eliminate risk of fire hazard, good housekeeping both for inside and outside of the building shall be strictly maintained.
5. A fire control room including a closed-circuit TV system will have to be maintained which observe all floor of the building.

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Principal

Raniganj Lions J.D.M. Chanani
D.A.V. Public School


Manager

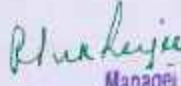
Local Managing Committee
RLJDMC D.A.V Public School, Raniganj

6. A crew of trained Fireman under the experienced officer shall be maintained round the clock for safety of the building.
7. If required old line shall have to be replaced with new lines, the cables shall always be laid in M.S conduit pipes continuously bonded to the earth.
8. Periodical flushing of water in the hydrant and sprinkler pipe line shall be made to maintain the efficiency working performance of above mentioned system.
9. Fire License shall have to be obtained for storing and processing with L.P.G. and other highly combustible articles.
10. Existing electrical wiring of the whole building shall have to be carefully checked for any wear and tear in them, particularly lines above false ceiling and ducts.
11. Transformer and switchgear room shall be protected with automatic co2 or DCP fire extinguisher conforming I.S specification.
12. First aid firefighting system shall be provided as per I.S specification.
13. The notice of firefighting and evacuation from the building shall be prepared and displayed at all vulnerable place of the building.
14. The employees and security staff shall be conversant with installed Fire Fighting equipment's of the building and to operate in the event of Fire and Testing.
15. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of building.
16. 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.
17. The Fire Safety Certificate is valid for a period of three years from the date of issue, and has to be renewed after three years certifying about the satisfactory services, performance of all the Life and Fire Safety arrangements installation of the building.

Signature valid

Signed by: NITAI CHAKRABORTY
Reason: Approved
Location: West Bengal
Date: 15-Mar-2024 15:27:33


Principal
Raniganj Lions J.D.M. Channani
D.A.V. Public School


Manager
Local Managing Committee
RLJDMC D.A.V Public School, Raniganj

Divisional Fire Officer, Paschim Bardhaman
West Bengal Fire & Emergency Services