



GOVERNMENT OF WEST BENGAL
OFFICE OF THE DEPUTY DIRECTOR (SOUTH ZONE)
WEST BENGAL FIRE & EMERGENCY SERVICES
CITY CENTRE, DURGAPUR-16.

Memo No. IND/WB/FES/20212022/65621

Dated: 08/02/2022

From: The Divisional Officer
Purulia Bankura Division
West Bengal Fire & Emergency Services

To : The Secretary,
FATIKA NAZRUL SUKANTA P.T.T.I & B.ED COLLEGE
(COMPOSITE INSTITUTE),
Vill:Fatika, P.O, Rol, Dist. Bankura.



Sub : Issuance of Fire Safety recommendation for the proposed G+2 storied Educational building (P.T.T.I & B.Ed.College) in favour of. FATIKA NAZRUL SUKANTA P.T.T.I & B.ED COLLEGE (COMPOSITE INSTITUTE), over L.R.Plot Nos. 1512,1545,1547,1553, 1555,1556,1557,1558,1559 & 1567, J.L.No.09, L.R.Kh.No. 739, Mouza: Fatika, P.S. Indus under Rol Gram Panchayet, Dist. Bankura.

Ref : Your application Dated 14/01/2022

This is to reference to your letter dated 14/01/2022 regarding Issuance of Fire Safety recommendation for the proposed G+2 storied Educational building (P.T.T.I & B.Ed.College) in favour of. FATIKA NAZRUL SUKANTA P.T.T.I & B.ED COLLEGE (COMPOSITE INSTITUTE), over L.R.Plot Nos. 1512,1545,1547,1553, 1555,1556,1557, 1558,1559 & 1567, J.L.No.09, L.R.Kh.No. 739, Mouza: Fatika, P.S. Indus under Rol Gram Panchayet, Dist. Bankura.

The plan drawing submitted by you was scrutinized and marked as found necessary from Fire Safety point of view i.e Fire prevention and Fire safety Rules 1996 with upto date amendment and the relevant portions of Part IV of the N.B.C., I.S. Specification and relevant building Rules of Local Bodies subject to inspection report of the Inspecting Authority of this department. In returning one set of Plan with recommendation, this office is issuing Fire Safety recommendation in favor of the aforesaid concern subject to the compliance of the following Fire Safety Measure. After complying of Fire safety recommendation (Enclosed herewith) N.O.C./Fire safety certificate will be issued in due course.

Enclosed; Recommendation


DIVISIONAL OFFICER
PURULIA BANKURA DIVISION
WEST BENGAL FIRE & EMG. SERVICES

RECOMMENDATIONS

A. CONSTRUCTION :

1. The construction of the proposed Educational building shall be carried out as per approved plan drawings conforming the relevant rules of local Municipal Corporation, as well as N.B.C. of India 2005.
2. The Floor area exceeds 750 m² shall be suitably compartmented by wall separation upto Ceiling level having at least two hrs. 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 Central core-duct of the building shall be provided.
5. Arrangements shall have to be made for sealing all the vertical ducts by the materials of adequate Fire Resisting capacity.

B. OPEN SPACE & APPROACH ROAD :-

1. The open space of the surrounding building shall conform the relevant buildings rules so as to permit the easy accessibility and maneuverability of Fire Appliances with turning facility.
2. The approach road shall be sufficiently strong to with stand the load of Fire Engine weighting upto 20 M.T.
3. The width and height of the access gates into the premises shall not be less than 4.5 M and 5 M respectively abutting the road. .

C. STAIR CASES :-

1. The stair cases of the building shall be enclosed /R/C/C/ type made of bricks having Fire Resisting capacity not less than 4 hrs.
2. The stair cases 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, Tread, Rise & flight of the stair cases and corridors/Exit/Lobby etc. shall conform the relevant building rules.
4. All the stair cases shall be extended upto to terrace of the building and shall be negotiable to each other without entering into any room.
5. Fire and smoke check doors at the entrances of all stair case enclosures at each floor shall be provided. The F.C.D. shall be at least one hour Fire Resistance wire glass window fitted with Self-closing type openable in the direction of escape.



D. FIRE FIGHTING WATER :-

1. Underground W/R having capacity 20000 lts. Capacity and overhead Reservoir 5,000 exclusively for Fire Fighting purpose with replenishing arrangements @ 1000 lts/min. preferably from two different sources of water supply shall be provided.

The Fire water Reservoir shall have over flow arrangements with the domestic water reservoir as well as to avoid stagnancy of water. The water Reservoir shall be kept full at all time.

E. SPRINKLER INSTALLATION :

The automatic sprinkler installation shall be provided Basement in all floor areas of the building as per I.S. 1972 Alarm gang to be incorporated along with the sprinkler system.

- F. Provision of 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 preferably be of diesel driven type.

A separate Fire Pump shall preferably be made for the total Sprinkler installation or the building, Provision of Jockey Pump shall also have to be made to keep the Water based system under pressurized conditions at all the time. All the pumps shall be incorporated with both manual and auto starting facilities. The suction of Pumps shall preferably of positive type or in case of negative suction the system shall be Wet Riser-cum-Down Comer with suitable terrace pump fitted with overhead tank.

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 ducts shall be supplied sealed at alternative floor level.
3. The electrical installation shall be adequately protected with CO2 /D.C.P. or Medium Velocity water projector system.
4. Alternative power supply :- Arrangements shall be made to supply with the help of generator to operate at least the Fire pump, pump for deep tube well . Fire Alarm system, Fire lift etc. and also illuminating the stair case, corridors, exit etc. of the building in case of normal power failure.

H. DETECTION, ALARM AND SUPPRESSILON SYSTEM :-

1. Manually operated Electrical Fire Alarm system with at least three nos. of break glass type call boxes fitted with hooters along with P.A. system, tack back facilities at each floor shall be made in the control room. The control room shall be located at the ground floor of the building. Other requirements of the system shall be conformed I.S. 2189-1988.
2. The suppression system shall be made with Fire Extinguishers and total flooding system with CO2 /FM-200 particularly in computer and Electrical processing and Data Room.
3. Hooter will be sounded in such a manner so that an operation of a Detector or M.C.P. Hooters will sounded in the same floor and immediate alternative floor.



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4. P.A. system shall be linked with all floors and control room to be established.
5. Auto Fire Alarm system with an along addressable, smoke heat detector as per suitability shall be installed at each floor. .
- 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 RECOMMENDATIONS :-**
 1. No temp structure of any kind shall be allowed to erect within the premises or to roof of the building which can be used for educational purpose.
 2. For mid-day meal and or canteen, the kitchen should be remote from main school building and must be permanent construction i.e. R.C.C. structure.
 3. One attendant for every 100 or part thereof students shall be provided who will guide them during emergency evacuation to ensure their safety.
 4. It is desirable to provided minimum two exit doors remote to each other in each class room and all classrooms shall lead directly to a corridor of minimum width 1.5 m without entering of any other room.
 5. Electrical load/ear thing shall be tested at regular interval. Socket shall be used in every joins of electrical wiring to avoid loose contact. Suitable fuse/circuit breaker shall be placed in the circuit.
 6. All the exits shall be free from any kind of obstruction and shall be adequately illuminated with exit corridor.
 7. Exit directional sign and floor numbers shall be displayed in the conspicuous places.
 8. Lobby approach and stair cases shall be well ventilated and adequately illuminated.
 9. Staircase landing or underneath the staircase shall be kept free and not be used for storage or any other purpose.
 10. Adequate No's of Portable fire extinguishers such as D.C.P., C02 and water type C02 to be installed in every floor with office room/record room etc. Lab & Computer room.
 11. All the teaching and non teaching staff shall have adequate knowledge of using fire extinguishers and action to be taken for evacuation of building in case of emergency.
 12. Fire prevention shall be included in the work education and have a class both theoretical & practical at regular interval.

This Fire Safety Recommendations valid for one Year from the Date of Issue and Prior information is required for further extension the period.

N.B. : Any violation of the above safety recommendations, if found, will be treated as cancelled.

