

Office of the Chief Fire Officer, Bengaluru-East Zone, Karnataka Fire & Emergency Services, Commissariat Road, Bengaluru-560 025.



No. 936(2)/CFO/Bng-East/FSR/2020

Dated: 22-12-2020.

ANNEXURE - 1

Group - B Educational Building

NBC-2016, Part-4, Table 7(11) 3.1.3 Group B Educational Buildings Sub Division B1 & B2. (These condition are indicative and not exclusive all relevant provisions related to fire and life safety of NBC-2016 are mandatory).

To,
The Principal,
M/s. R V College of Engineering,
R V Educational Institutions,
R V Vidyaniketana Post, Mysore Road,
Bangalore – 560 059.

Sir,

Sub: Issue of "Fire safety recommendation" with respect of fire prevention, fire fighting and evacuation measures required at "M/s. R V College of Engineering, Civil Engineering Block, R V Educational Institutions, R V Vidyaniketana Post, Mysore Road, Bangalore – 560 059" - reg.

Ref: 1) Your request letter dated: 03-11-2020.

2) Inspection report No: 85/DFO/NFS/Advice-school/2020 Date: 14-12-2020.

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With reference to the subject cited above, the premises of "M/s. R V College of Engineering, Civil Engineering Block, R V Educational Institutions, R V Vidyaniketana Post, Mysore Road, Bangalore — 560 059" was inspected by the District Fire Officer, North Fire Station, Bengaluru on 13-11-2020 with respect to Fire prevention, Fire fighting and Evacuation measures to be complied in the above premises and has submitted the details as under.

Part-A. Details of the building / premises :-

| 1. | Name and applicant | d address | of | the | : | The Principal, M/s. R V College of Engineering, R V Educational Institutions, R V Vidyaniketana Post, Mysore Road, Bangalore – 560 059. |
|----|--------------------|-----------|-----------------------|---------|---|---|
| 2. | Name and premises. | (0) | of Fire Benga Ear Zor | luru st | : | M/s. R V College of Engineering, Civil Engineering Block, R V Educational Institutions, R V Vidyaniketana Post, Mysore Road, Bangalore – 560 059. |

| 3. | Name and address of the building owner | g : | Rashtreeya Sikshana Samithi Trust, R V College of Engineering, Bangalore – 560 059. |
|-----|--|-----|---|
| 4. | Number of Buildings | : | One Building i.e. Civil Engineering Block. |
| 5. | Number of floors | : | Basement, Ground & 02 upper floors. |
| 6. | Floor wise details of occupancy | | |
| | Basement floor | : | Parking area. |
| | Ground floor | : | Office room 02, Staff room 01, Class room 02, Meeting room 01, Wash rooms 02, Store rooms 02, Block room 01 & Reception 01. |
| | First floor | : | Lecturer hall 01, Server room 01, Pantry 01, Wash rooms 02, Principal room 01 & Staff room 02. |
| | 2 nd floor | : | Chemistry lab 01, Computer science 01, Pantry 01 & Wash rooms 02. |
| 7. | Height of the Building | : | 13.20 mtrs. |
| 8. | Site area | : | 26 acres 19 guntas. |
| 9. | Built-up area of each floor:- | | |
| | Basement floor | : | 628.794 Sq.mtrs. |
| | Ground floor | : | 963.10 Sq.mtrs. |
| | First floor | : | 1,320.05 Sq.mtrs. |
| | 2 nd floor | : | 1,416.439 Sq.mtrs. |
| | Terrace floor | : | 564.242 Sq.mtrs. |
| 10. | Total Built up area | : | 4,892.625 Sq.mtrs. |
| 11. | Surroundings of the Property:- | | |
| | Front (North) | : | Bangalore Mysore High Way road. |
| | Rear (South) | : | Vrishabhavathi Naala. |
| | Side (East) | : | VRL Bus Garage. |
| | Side (West) | : | Private property. |
| | 4 | | * East Zone |

| 12. | Setback area available around the building | : | |
|-----|--|---|------------|
| | Front (North) | : | 8.00 mtrs. |
| | Rear (South) | : | 8.00 mtrs. |
| | Side (East) | : | 8.00 mtrs. |
| | Side (West) | : | 8.00 mtrs. |

<u>Part-B</u>. On inspection of this School premises, the following fire prevention, fire fighting and evacuation measures recommended are considered absolutely essential from fire safety point of view:-

| No. (1) Details (02) Existing (03) Recommendations (04) 1. Accessibility The premises is accessible from 24.00 mtrs wide Bangalore - Mysore Highway road, located on the Northern side and the road is hardened to carry the weight of 45,000 Kgs. 2. Number of entrances O2 entrances cum exits have been provided. Complied. 3. Diesel generators O4 standby diesel generators, of 600KVA, 500KVA, 380KVA & 250KVA capacity have been provided and connected to all the emergency provisions in the building. 4. Number of staircases available Width of staircases Width of staircases 1.50 mtrs. Width of treads 30 cms. Height of risers 15 cms. No. of risers per flight Height of handrails 1.10 mtr. Complied. Complied. Complie | SI. | | Sea 27 20-1-7 | | |
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| flight flight Fire Open | | | Height of risers | 15 cms. | |
| | | | No. of risers per | 13 risers per | |
| Height of handrails 1.10 mtr. | | | flight | flight | Fire Os |
| | | × | Height of handrails | 1.10 mtr. | (pangaluru () |

| | | Head room | 2.50 mtrs. | |
|-----|---|---|---|---|
| | | clearance | 2.50 mt/s. | |
| 5. | No. lifts and capacity | 01 lift has been p | Complied. | |
| 6. | Portable Fire extinguishers | 04 Nos. ABC powder each of 6kgs capacity and extinguishers, each capacity have been each floor. | city, 06 Nos. guishers, each 3 Nos. CO ₂ of O2kgs | extinguisher of 6kgs capacity shall be provided for every 15.00mtrs radius in each floor of the entire building. |
| 7. | Public address system | Public address syste communication facility provided. | | Complied. |
| 8. | First aid hose reel hose | 04nos Hose reel hose of length with a shut of been provided near outlet. The riser dia is GIC class pipe has been | f branch has each hydrant 100 mm and | Complied. |
| 9. | Automatic sprinkler system | Not provide | d. | Automatic sprinkler system with 01no sprinkler head for every 6.96Sq.mtrs of built up area of basement floor shall be provided. |
| 10. | Terrace tank over respective tower terrace | The system has been of 2 capacity. | I | Complied. |
| 11. | At the terrace tank level with minimum pressure of 3.5 kg/cm ² | The system has been consider pump capable 900 LPM at minimum 3.5 kg/cm ² installed overhead tank. | of delivering pressure of | Complied. |
| 12. | Manually operated electronic Fire alarm system. | Manually operated elealarm system is instance of the building. The call of 'break glass' type, call is transmitted auto the control room glass of the system is known as the control room glass of the system is known as the control room glass of the system is known as the control room glass of the system is known as the control room glass of the system is known as the control room glass of the system is known as the control room glass of the system is known as the control room glass of the system is known as the control room glass of the system is instance of the control room glass of the system is instance of the control room glass of the system is instance of the control room glass of the system is instance. | alled with ach floor of boxes are where the tomatically when the | Complied. |

| 13. | Escape routes | Directions in which the students | Complied. |
|-------|---------------------|------------------------------------|---------------------------------|
| | 2 | have to move in the event of an | |
| | | emergency have been displayed in | 9 |
| | | the corridor on each floor during | |
| | | evacuation. | |
| 14. | Fire order | A notice board have been indicated | Complied. |
| | (Fire Safety plans) | the action have been taken by the | - |
| | | employees in case of any | |
| | N. | emergency have been displayed | |
| | | with the telephone number of | |
| | | North Fire Station i.e. 080- | |
| | | 22971536 & 101, 500 550, & 600 | |
| | * | and the nearest Ambulance service | |
| | | and Police Station. | # 5 |
| 15. | No smoking board. | Not displayed. | COTPA Sec-4, direction NO |
| | | | Smoking area smoking here is |
| p. 12 | | | an offence board should be |
| | | 6 | written in English & Kannada |
| | | | both language shall be |
| | | | prominently displayed at |
| | | | inside the entry / exit of the |
| | | | each floor. |
| 16. | Fire Fighting | Not trained. | At least 40% of the staff |
| | training | | should be got trained in basic |
| | | 6 | fire fighting at R.A.Mundkur |
| | | | Fire & Emergency Services |
| | | | Academy, Bannerghatta |
| | | | Road, Bangalore -560029 / |
| | | | Chief Fire Officer, Zone level. |
| | | | |

17. Fire precautionary measures:-

- A) Ex[plosive and flammable materials should not be stores in the store room, UPS room, Electrical panel area, class rooms, laboratory & electrical sum panel premises.
- B) Accumulation of combustible waste in and the premises should be avoided.
- C) The exit ways shall be always kept clear without any obstruction.

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- D) Liquefied petroleum gas should not be stores in the building.
- E) The doors shall not be kept locked / latched during working hours and shall be free from obstruction.
- F) During the class hours the class room doors shall not be locked from inside to out side.
- G) As per Honorable Supreme Court order all teachers and staffs shall be trained to handle safety equipment) interest emergency evacuation and protect their

students in the event of fire and other emergency and the school shall observe the Fire Safety Day on April $14^{\rm th}$ of every year be conducting Fire Safety drills with co-ordinate Fire Service department.

Under the above circumstance, the Karnataka Fire & Emergency Services Department is issuing Fire Safety Recommendation to "M/s. R V College of Engineering, Civil Engineering Block, R V Educational Institutions, R V Vidyaniketana Post, Mysore Road, Bangalore – 560 059". subject to condition stipulated above and compliance of the above recommendations as shown in Column-4 of serial-B within 3 months and compliance should be obtained from the undersigned.

"This Fire Safety Recommendation is valid for Only One Year from the date of issue and it is renewable.

All requirements recommended above are as per National Building Code-2016 Part-4 clause 3.1.3 of Fire and Life safety will have to be complied with mandatorily.

Bengaluru Co East Zone *

Yours faithfully,

Chief Fire Officer Bengaluru East Zone

Bengaluru

Copy to the District Fire Officer, North Fire Station, Bengaluru.