



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



No. 936(11)/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, Bio Technology & Electronics & Instrumentation 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, Bio Technology & Electronics & Instrumentation 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 address of the applicant	:	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 address of the premises.	:	M/s. R V College of Engineering, Bio Technology & Electronics & Instrumentation Engineering Block, R V Educational Institutions, R V Vidyaniketana Post, Mysore Road, Bangalore – 560 059.



3.	Name and address of the building owner	:	Rashtreeya Sikshana Samithi Trust, R V College of Engineering, Bangalore – 560 059.
4.	Number of Buildings	:	One Building i.e. Bio Technology & Electronics & Instrumentation Engineering Block.
5.	Number of floors	:	Ground & 03 upper floors.
6.	<u>Floor wise details of occupancy</u>		
	Ground floor	:	Staff room-04, Electrical room-01, Wash room-04, Renewable Energy Lab-01, PTC Lab-01, Office-01, BT Research lab-01, Bio information Lab-01 & Class Rooms for 3 rd year BE BT-01.
	First floor	:	Library-01, wash rooms-04, B.T-05, Stereo Microscope-01, Plant Growth Chamber-01. Genetic Engineering-02, Animal Culture-01, Plant Animal BT-01, Staff Rooms-08, BT Class Rooms-03 & Bio Technology lab-01.
	2 nd floor	:	PG Lecturer hall-04, HOD -01, Dept of Library-01, Wash rooms-04 & EI-05.
	3 rd floor	:	Department Store-01, Rooms-02, UPS Room-01, PG & Research Lab-01, Staff Rooms-02, Digital Signal Processing lab Veriology-01, Wash rooms-02, Automation Technology lab-01, Lecturer hall-01, Data Aquisitum Lab-01, Linear ICS & Application Lab-01.
7.	Height of the Building	:	13.20 mtrs.
8.	Site area	:	26 acres 19 guntas.
9.	<u>Built-up area of each floor:-</u>		
	Ground floor	:	1076.914 Sq.mtrs
	First floor	:	1087.167 Sq.mtrs
	2 nd floor	:	1075.589 Sq.mtrs
	3 rd floor	:	1072.890 Sq.mtrs
10.	Total Built up area	:	4,312.56 Sq.mtrs.
11.	<u>Surroundings of the Property:-</u>		
	Front (North)	:	Bangalore Mysore High Way road.
	Rear (South)	:	Vrishabhavathi Naala.
	Side (East)	:	VRL Bus Garage.



	Side (West) :	Private property.
12.	<u>Setback area available around the building</u>	:
	Front (North) :	8.00 mtrs.
	Rear (South) :	8.00 mtrs.
	Side (East) :	8.00 mtrs.
	Side (West) :	8.00 mtrs.

Part-B. 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 :-

Sl. 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.		Complied.
2.	Number of entrances	02 entrances cum exits have been provided.		Complied.
3.	Diesel generators	04 standby diesel generators, of 600KVA, 500KVA, 380KVA & 250KVA capacity have been provided and connected to all the emergency provisions in the building.		Complied.
4.	Number of staircases available	Number of the staircases	01no.	In addition, 01 more staircase of min 1.50mtrs width shall be provided.
		Width of staircases	1.50 mtrs. Each.	
		Width of treads	30 cms.	
		Height of risers	15 cms.	
		No. of risers per	11 risers per	



		flight	flight	
		Height of handrails	1.10 mtr.	
		Head room clearance	2.40 mtrs.	
5.	No. lifts and capacity	01 lift has been provided.		Complied.
6.	Portable Fire extinguishers	04 Nos. ABC powder extinguishers, each of 6kgs capacity, 06 Nos. water mist type extinguishers, each of 4kgs capacity and 3 Nos. CO ₂ extinguishers, each of 02kgs capacity have been provided at each floor.		In addition, 01no ABC 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 system with two communication facility has been provided.		Complied.
8.	First aid hose reel hose	03nos Hose reel hose of 30.00 mtrs length with a shut off branch has been provided near each hydrant outlet. The riser dia is 100 mm and GIC class pipe has been provided.		Complied.
9.	Terrace tank over respective tower terrace	The system has been connected to overhead tank of 25,000 liters capacity.		Complied.
10.	At the terrace tank level with minimum pressure of 3.5 kg/cm ²	The system has been connected to booster pump capable of delivering 900 LPM at minimum pressure of 3.5 kg/cm ² installed near the overhead tank.		Complied.
11.	Manually operated electronic Fire alarm system.	Manually operated electrical fire alarm system is installed with 03nos call box at each floor of the building. The call boxes are of 'break glass' type, where the call is transmitted automatically to the control room when the glass of the system is broken.		Complied.
12.	Escape routes	Directions in which the students have to move in the event of an emergency have been displayed in the corridor on each floor during evacuation.		Complied.



13.	Fire order (Fire Safety plans)	A notice board have been indicated the action have been taken by the employees in case of any 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.	Complied.
14	No smoking board.	Not displayed.	COTPA Sec-4, direction NO Smoking area smoking here is an offence board should be written in English & Kannada both language shall be prominently displayed at inside the entry / exit of the each floor.
15	Fire Fighting training	Not trained.	At least 40% of the staff should be got trained in basic fire fighting at R.A.Mundkur Fire & Emergency Services Academy, Bannerghatta Road, Bangalore -560029 / Chief Fire Officer, Zone level.
16	<u>Fire precautionary measures :-</u> <ul style="list-style-type: none"> A) Explosive 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 combustibile waste in and the premises should be avoided. C) The exit ways shall be always kept clear without any obstruction. 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, initiate 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 th of every year be conducting Fire Safety drills with co-ordinate Fire Service department.
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Under the above circumstance, the Karnataka Fire & Emergency Services Department is issuing Fire Safety Recommendation to "M/s. R V College of Engineering, Bio Technology & Electronics & Instrumentation 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.



Yours faithfully,

[Signature] 22/12/20
Chief Fire Officer
Bengaluru East Zone
Bengaluru

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