

Dated: 18-03-2020

No.36/FSR/CFO/MD/2011

To

✓ The Principal,  
Presidency School,  
Kelarai, Post Bondanthila,  
Kuntadka,  
Mangaluru – 575 029.

Sir,

Sub: Issue of 'Fire safety recommendation' to Presidency School buildings constructed at Sy.No.16(P1), 16(P2) & 17(P1), Kelarai, Bondanthila Village, Mangaluru Taluk, Dakshina Kannada District.

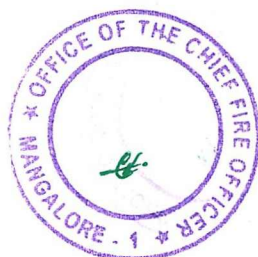
Ref: Report No.02/FSR/DFO/KADRI/MNG/2020 dated 25-02-2020 of the District Fire Officer (Fire Prevention), Kadri, Mangaluru.

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With reference to the subject above cited, the premises of Presidency School buildings constructed at Sy.No.16(P1), 16(P2) & 17(P1), Kelarai, Bondanthila Village, Mangaluru Taluk, Dakshina Kannada District was inspected by the District Fire Officer (Fire Prevention), Kadri, Mangaluru on 04 02 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.

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

- |    |  |   |   |
|----|--|---|---|
| 01 | Name and Address of the Applicant.     | : | The Principal,<br>Presidency School,<br>Kelarai, Post Bondanthila,<br>Kuntadka,<br>Mangaluru – 575 029.                                 |
| 02 | Name and Address of the premises.      | : | Presidency School,<br>Sy.No.16(P1), 16(P2) & 17(P1),<br>Kelarai, Bondanthila Village,<br>Mangaluru Taluk,<br>Dakshina Kannada District. |
| 03 | Name and address of the Building owner | : | Sri Nissar Ahmed,<br>Chairman,<br>A.H. Memorial Educational Trust,<br>Richmond Town,<br>Bengaluru.                                      |
| 04 | Number of buildings                    | : | Two (2) i.e. Block-1 (Academy Block) & Block-2 (Administrative Block).  |
| 05 | Number of floors                       | : | Block-1 (Academy Block) with ground floor & 2 upper floors &<br>Block-2 (Administrative Block) with ground floor & one upper floor.     |



06 **Floor-wise details of occupancy:-**  
**Block-1 (Academy Block)**

- Ground floor - Computer room, library, science lab, 6 class rooms, reading room, staff room, stationary room
- 1<sup>st</sup> floor - 8 class rooms, staff room, Principal room, maths lab, auditorium
- 2<sup>nd</sup> floor - 16 class rooms, staff room, HOD room & medical checkup room

**Block-2 (Administrative Block)**

- Ground floor - Office, reception, Directors chamber, Principal room
- 1<sup>st</sup> floor - Directors room, guest room, dining room & kitchen

07 Height of the building : Block-1 – 13.10 mtrs.  
Block-2 - 06.40 mtrs.

08 Site area : 40,884.35 Sq.mtrs. (1.35 acres)

09. Built-up area of each floor:-

**Block-1 (Academy Block)**

- Ground floor - 1,630.42 Sq.mtrs.
- 1<sup>st</sup> floor - 1,630.42 Sq.mtrs.
- 2<sup>nd</sup> floor - 1,862.18 Sq.mtrs.

**Block-2 (Administrative Block)**

- Ground floor - 909.43 Sq.mtrs.
- 1<sup>st</sup> floor - 909.43 Sq.mtrs.

10. Total built-up area : Block-1 – 4,991.98 Sq. mtrs.  
Block-2 – 1,818.86 Sq.mtrs.  
Total – 6,810.84 Sq.mtrs. (total of 2 buildings).

11. Surrounding properties:-

- East (front) : Partly 9.00 mtrs. wide internal road & partly campus play ground
- West (Rear) : Vacant land
- North (Side) : Campus vacant land
- South (Side) : Campus low rise hostel building (under construction).



12. Set-back area available around the building :-

**Block-1**

East (front) : Minimum 10.00 mtrs.  
West (Rear) : 10.00 mtrs.  
North (Side) : 06.00 mtrs.  
South (Side) : 13.00 mtrs.

**Block-2**

East (front) : Minimum 10.00 mtrs.  
West (Rear) : Minimum 10.00 mtrs.  
North (Side) : 10.00 mtrs.  
South (Side) : 10.00 mtrs.

**B. On inspection of this Educational premises, the following fire prevention, fire fighting and evacuation measures recommended are considered absolutely essential from fire safety point of view :-**

Sl. No. (01)	Details (02)	Existing (03)	Recommendations (04)
01.	Accessibility to the premises	The premises abutting 09.00 mtrs. wide internal road, which is connected to 09.00 mtrs. wide Main road, located on the eastern side. Both the roads are hardened to carry the weight of 45,000 kgs.	Adequate
02.	No. of entrances	Two.	Complied.
03.	Width of entry / exit	Each of 6.00 mtrs.	Adequate.
04.	Diesel generators.	Provided one diesel generator of 50 KVA capacity.	Not complied. Adequate capacity standby generator shall be connected to corridor lighting, staircase lighting, fire fighting systems to supply power in the event of failure of electric supply in the building.



(01)	(02)	(03)	(04)
05.	No. of staircases available	Nos. of staircases : 2 in Block-1 & one in Block-2  Width of staircases : Each of 1.50 mtr.  Width of treads : 0.30 mtr.  Height of risers : 0.15 mtr.  Nos. of riser per flight : Maximum 09 Nos.  Height of handrails : 1.00 mtr.  Head room clearance : 03.00 mtrs.	
06.	No. lifts and capacity.	Nos. of lifts : Not provided  Capacity of lifts : Not applicable	
07.	Fire extinguisher	In all 19 Nos. DCP extinguishers, each of 6 kgs. capacity, 2 Nos. CO2 extinguishers, each of 4.5 kgs capacity and 1 No. CO2 extinguisher of 6.5 kgs. capacity.	Not complied.  The following portable fire extinguishers shall be provided; <ol style="list-style-type: none"> <li>1) One CO<sub>2</sub> extinguishers of 4.5 kgs. capacity near the entrance to electrical room.</li> <li>2) One 9Litres capacity Portable Hand held "Water Mist &amp; CAFs" fire extinguishers – Jet / spray type (Combination) and One ABC powder extinguishers of 6kgs. Capacity near transformer.</li> </ol> One 9Litres capacity Portable Hand held "Water Mist & CAFs" fire extinguishers – Jet / spray type (Combination) and One ABC powder extinguishers of 6kgs. Capacity near the diesel generator.





(01)	(02)	(03)	(04)
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- 3) 9Litres capacity Portable Hand held "Water Mist & CAFs" fire extinguishers – Jet / spray type (combination) every 30 meters at each floor.
- 4) One ABC powder extinguishers of 2 kgs. near each lab.
- 5) One CO2 extinguisher of 2 kgs. capacity near computer lab.

All the extinguishers suggested above should be with B.I.S. markings and should be located at an easily accessible position without obstructing the normal passage and maintained periodically.

08. Public address system

Not provided

Not complied.

Public address system with two way communication facility should be provided at each floor, near each staircase landing with its console at the control room, located on the ground floor of each building.

09. First Aid Hose reel hose.

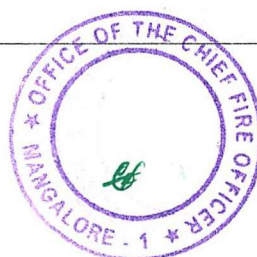
Not provided

Not complied.

As per the requirement 2 Hose reel hose at Block-1 and one Hose reel hose at Block-2 (total – 3), each of 19 mm size and of adequate length to reach the farthest point of each floor, near each staircase landing shall be provided with a shut off branch.

10. Automatic sprinkler system. Not provided

Not applicable.



(01)	(02)	(03)	(04)
11.	Terrace tank over respective tower terrace.	Not provided	Not complied. Each Hose reel hose system shall be connected to an RCC overhead tank of 10,000 litres capacity (3 tanks).
12.	At the terrace tank level with minimum pressure of 3.5 kg/cm <sup>2</sup> .	Not provided	Not complied. Terrace booster pump, capable of delivering 450 litres of water per minute shall be provided to each hose reel hose system (3 pumps). The systems should also be connected to an alternative source of power supply.
13.	Fire control room at ground floor.	Not provided	Not complied. Fire Control room shall be on the ground floor of each building.
14.	Escape routes	Not provided	Not complied. Directions in which the students & faculty should have to move in the event of any emergency have to be indicated in the corridor/passage on each floor as a guide during evacuation. These should be in luminous paint.
15.	Fire order	Not provided	Not complied. Notice boards indicating the details of action to be taken in case of any emergency with telephone numbers of Mangaluru Fire Station i.e. 101 & 0824-2213192/2211085/2423333 and nearby Ambulance service shall be displayed near each staircase landing at each floor, each building.



(01)	(02)	(03)	(04)
16.	Fire fighting training	Not trained.	<p>Not complied.</p> <p>40% of the employees should be got trained in fire prevention and fire fighting at the Karnataka Fire and Emergency Services, Chief Fire officer's Office, Pandeshwara, Mangaluru – 575 001 or at the R.A.Mundkur Karnataka Fire &amp; Emergency Services Academy, Bannerghatta Road, Bengaluru – 560 029 within 90 days from the date of issue of this <u>'Fire safety recommendation'</u>.</p>

The Karnataka Fire & Emergency Service Department is issued the 'Fire safety recommendations' in compliance to the undersigned, within 90 days.

✳ All requirements recommended above are as per National Building Code - 2016 Part-4 clause 3.1.4 of Fire and Life safety will have to be complied with mandatorily.



Yours faithfully,  
  
 18/3/2020  
**Chief Fire Officer**  
 Karnataka State Fire & Emergency Services  
 Mangalore

Copy to the District Fire Officer (Fire Prevention), Kadri, Mangaluru.

