

Karnataka State Fire



And Emergency Services

No: 358/CFO/KLB/ZONE/FSR/2021

Dated: 29/09/2021

To,

The Secretary
Sri Saraswathi Education Society
Nandhi School.
Infantry Road, Cantonment , Ballari.
Ballari (Tq) Ballari(Dist)

Sir,

Sub: Issue of "Fire Safety Recommendations" on requirement of fire Prevention fire fighting and evacuation measures required at Sri Saraswathi Education Society, Nandi School – CBSE, B.Belaga, Ballari (Dist)

Ref :-1) Applicants letter on Date: **07/09/2021**.

2) C.No.116/DFO/Ballari/2021, Date 28/09/2021

With reference to the subject above cited, the premises of Sri Saraswathi Education Society, Nandi School – CBSE, B.Belagal, Ballari (Dist) was inspected by, District Fire Officer, Ballari on 27/09/2021 with respect to fire prevention, fire fighting and evacuation measures to be provided in the above premises and submitted building details as under.

A. Details of the Building/Premises:-

01.	Name and Address of the applicant.	: The Secretary Sri Saraswathi Education Society Infantry Road, Cantonment , Ballari. Ballari (Tq) Ballari(Dist)
02.	Name and Address of the premises.	: Nandi School – CBSE, B.Belagal, Ballari (Tq), Ballari (Dist)
03.	Name and Address of the Building owner.	: Sri K. Iqbal Ahmed S/O Late K.J.Sadiq. Mess Road, Ballari. Ballari (Tq) Ballari (Dist)
04.	Number of Buildings	: 02 No's Building
05.	Number of floors	: <u>Block-01</u>



		Basement +Ground + 2 Upper floor.. Block-02 Ground+2 Upper Floors.		
06	Floor-wise details of occupancy :-		Block-01	Block-02
	Basement:	:	1) Empty Hall.	--
	Ground Floor:	:	1) Class Room-06 No's 2) Staff Room-01 No's	1) Class Room-08 No's
	1st Floor	:	1) Class Room-06 No's 2) Staff Room-01 No.	1) Class Room-08 No's
	2nd Floor	:	1) Class Room-06 No's 2) Staff Room-01 No.	1) Class Room-08 No's.
07	Height of the building	:	11.50 Mtrs	10.50 Mtrs.
08	Site area	:	16187.29 Sq.Mtr.	
09	Built-up area of each floor :-		Block-01	Block-02
		:	Basement Floor- Ground Floor – First Floor – Second Floor-	289.51 Sq Mtrs 443.60 Sq.Mtrs 443.60 Sq.Mtrs 443.60 Sq Mtrs
		:		-- 486.39 Sq Mtr 486.39 Sq Mtr 486.39 Sq Mtr
10	Total built-up area	:	1620.31Sq Mtrs	1459.17 Sq Mtrs.
11	Surrounding properties:-			
	East	:	12 Mtr Wide Infantry Road..	
	West	:	Residential Building.	
	North	:	Nandhi School Staff Quarters.	
	South	:	12 Mtr Wide Nandhi Colony Road.	
12.	Set back area available around the Building:-		Block-01	Block-02
	East	:	06.00 mtrs.	06.00 Mtrs
	West	:	10.00 mtrs.	10.00 Mtrs
	North	:	01.40 mtrs.	01.00 Mtrs
	South	:	00.00 mtrs.	05.00
			Recommended: To provide as per Local Zonal Regulations.	



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

Sl. No. [01]	Details [02]	Existing [03]	Recommendations [04]																								
01	Accessibility to Premises.	The premises is accessible from 12 mtrs wide Infantry Road at East Side and 12 Mtrs Wide Nandhi Colony Road at South Side.	-																								
02	No of entrances.	03 No.	-																								
03	Width of entry/ exit	01) 06.00 Mtrs (East Side) 02) 06.00 Mtrs (South Side) 03) 06.00 Mtrs (South Side)	-																								
04	Diesel generators.	Not Provided	One Adequate Capacity of Generator should be provide and it should be connected to alternate power supply.																								
05	No. of staircases available	<table> <tr> <td>No of staircase</td><td>:</td><td><u>Bloc k-01</u> (01 No).</td><td><u>Block-02</u> (02 No's)</td></tr> <tr> <td>Width of staircase</td><td>:</td><td>01.50 Mtr.</td><td>01.0 0 Mtr 01.0 0 Mtr</td></tr> <tr> <td>Width of treads</td><td>:</td><td>30 Cms.</td><td>30 Cms 30 Cms</td></tr> <tr> <td>Height of risers</td><td>:</td><td>15 Cms.</td><td>15 Cms 15 Cms</td></tr> <tr> <td>No of riser per flight</td><td>:</td><td>10 risers provided in a flight</td><td>13 risers provided in a flight 15 risers provided in a flight</td></tr> <tr> <td>Height of handrails</td><td>:</td><td>01 Mtrs.</td><td>01 Mtrs. 01 Mtrs.</td></tr> </table>	No of staircase	:	<u>Bloc k-01</u> (01 No).	<u>Block-02</u> (02 No's)	Width of staircase	:	01.50 Mtr.	01.0 0 Mtr 01.0 0 Mtr	Width of treads	:	30 Cms.	30 Cms 30 Cms	Height of risers	:	15 Cms.	15 Cms 15 Cms	No of riser per flight	:	10 risers provided in a flight	13 risers provided in a flight 15 risers provided in a flight	Height of handrails	:	01 Mtrs.	01 Mtrs. 01 Mtrs.	Recommended to Provide One more Staircase of width of 1.5 mtr to Block 01 and Widen the width of Existing 02 staircases of Block 02 to 1.50 mtrs wide.
No of staircase	:	<u>Bloc k-01</u> (01 No).	<u>Block-02</u> (02 No's)																								
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06	No of lifts and capacity.	No of lifts : NIL																									



	No of patients lifts.	Capacity of lifts	: NIL	
07	Fire extinguisher	Not Provided.	Block-01 01) 04 No's of ABC extinguisher of 04 kg capacity in each floor. 02) 01 No of CO2 extinguisher of 4.5 kg capacity near the Electrical Switch board. 03) 06 No's of sand Bucket for Electrical Switch board. 04) Two number of Hand gloves near the Electrical Switch board. 05) 01 No's Water Mist type extinguishers of 4 liters capacity should be kept near each staircase landing at each floor. 06) 01 No Mechanical Foam F/E of 09 Ltrs Capacity and 01 No ABC F/E of 06 Kg Capacity Should Provide Near Diesel Generator. Block-02 01) 04 No's of ABC extinguisher of 04 kg capacity in each floor. 02) 01 No of CO2 extinguisher of 4.5 kg capacity near the Electrical Switch board. 03) 06 No's of sand Bucket for Electrical Switch board. 04) Two number of Hand gloves near the Electrical Switch board. 05) 01 No's Water Mist type extinguishers of 4 liters capacity should be kept near each staircase landing at each floor. 06) 01 No Mechanical Foam F/E of 09 Ltrs Capacity and 01 No ABC F/E of 06 Kg Capacity Should Provide Near Diesel Generator. [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.	Public address system with two way communication facility has to provide	



			at each floor area near each staircase landing with its console at the control room located on the ground floor For Both Block-01&02 Separately.
09.	First aid Hose reel hose/Down Comer/ Wet Riser	Not provided	<u>Block-01</u> Recommended to provide down comer system in building should be of 100mm internal diameter and of G.I 'C' class pipe. From down comer , single hydrant outlets should be provide at each landing, Hose reel hose of minimum 19 mm size to reach the farthest point of the floor Should provided with shut off branch having a nozzle of 5 mm size at every 1000 sq. Mtrs of built up area. The hose reel hose is connected at each landing by means of an adaptor and it should be connected to 01 No of terrace fire water tank each 25,000 Ltrs capacity which is connected to Down comer system with 1 Booster pump of capacity 900 LPM for exclusively for fire fighting. <u>Block-02</u> 01 No of Hose reel hose of 30 mtr length with drum and 02 no's delivery hose pipes minimum 2 ½ inch size of adequate length to reach the farthest point of each floor has to be provide with a shut off branch having a nozzle of 2 mm size. The hose reel hose has been connected at each landing by means of an adaptor.
10	Automatic sprinkler system	Not Provided.	<u>Block-01</u> Recommended to provide sprinkler system at the rate of one sprinkler head for each 6.96 sq meter at Basement floor.



11	Terrace tank over respective tower terrace.	Syntax tank 02 No's of 5000 ltrs capacity provided at Block-01 and Syntex tank 02 No's of 1000 ltrs Capacity provided at Block-02.	<u>Block-01</u> Recommended to provide 01 nos of terrace fire water tank of 25,000 Ltrs capacity which should be connected to Down comer system with 1 Booster pump of capacity 900 LPM exclusively for fire fighting. <u>Block-02</u> To Provide Over Head Tank of 10,000 Ltrs for Fire Fighting purpose.
12	At the terrace tank level with minimum pressure of 3.5 kg/cm ²	-	<u>Block-01</u> To Provide 01 No pump with minimum pressure of 900 LPM. 3.5 kg/sqcm <u>Block-02</u> To Provide 01 No pump with minimum pressure of 3.5 kg/sqcm
13	Fire control room at ground floor.	Not Provided.	To provide separate fire control room at ground floor nearby staircase for Both Block-01&02.
14	Escape routes	Not Marked.	Signage board is required with illuminated points for in which direction to go outside from the building for staff & students and also separate light arrangement to the illumination board by doing from battery operated at Both Block-01& 02
15	Fire prevention measures	Not provided	1) Explosive and Inflammable materials should not be stored In the premises. 2) Accumulation of Combustible waste in And around the premises Should be avoided 3) The class room and other door shall not be Kept locked /latched During working hours And shall be free from Obstructions. 4) C.C. cameras so provided all around the school building at the



			strategic location to be maintained. 5) On site and off site emergency plans must be prepared the mock evacuation drill must be conducted twice a year.
16	Fire order (Fire Safety Plans)	Not Displayed	The Notice board have been indicted the action should be taken by the employees in case of any emergency should be displayed with the telephone number of Ballari Fire Station i.e- 08392-266001 & 101, and the telephone number of nearest Ambulance service and Police Station at Both Block-01 & 02
17	No Smoking Board	Not Displayed	COTPA Sec-4 Direction No Smoking area Smoking hear is an offence Board Should be written in English & Kannada both language Shall be Prominently displayed at inside the Entry/Exist of Each Floor. Of Both Block-01 & 02.
18	Fire fighting training.	Not Imparted	At-least 40% of School Staff should be got trained in basic fire fighting at R.A.Mundkur fire & Emergency Services Academy, Bannerughatta road, Bangalore within 3 months or at an early date.

Hence this "Fire Safety Recommendation" is issued to Sri Saraswathi Education Society, Nandi School – CBSE, B. Belagal, Ballari (Tq), Ballari(Dist) was inspected by, District Fire Officer, Ballari. subject to strict adherence of the conditions as laid down in this Recommendations and to check the portable fire extinguishers, the Hose reels pumps and to conduct mock drills periodically And the management must not extend the height of the building beyond 15.0 meters. and this Recommendations is valid for a period of one year from the date of issue.

Your's faithfully

**CHIEF FIRE OFFICER
KARNATAKA FIRE AND
EMERGENCY SERVICES
KALABURAGI ZONE
KALABURAGI-585103**

Copy to: The District Fire Officer Ballari.