

No.42/Bldg.NOC/CFO/MD/2022

Dated: 08-07-2022

Panchayath Development Officer ,
Puthige Village,
Moodabidri Taluk,
Dakshina Kannada District.

Sir,

Sub: Issue of No Objection Certificate for the
Educational Building Alvas Central School, Puthige, Moodabidri building at Puthige Village,
Moodabidri Taluk Dakshina Kannada District – reg.

Ref: Letter dated 14-06-2022 of Dr. M Mohan Alva, S/o Sri M.
Ananda Alva, 1-155/1, "Mijar Guttu House", Thenka Mijar
Village, Mijar, Moodabidre – 574 225

With reference to the letter of the Dr. Mohan Alva, Moodabidre, cited above, the District Fire Officer, Mangaluru has inspected the site of Alvas Central School, building at Sy.No.614/1, Puthige Village, Moodabidri Taluk, D.K. District on 29-06-2022 with reference to the drawings submitted by the applicant and has furnished the details as follows:-

A. Details of the premises.

1. Address of the premises - Alvas Central School,
Puthige Village,
Moodabidri Taluk,
Dakshina Kannada District.
2. Number of buildings - One.
3. Number of floors - Ground floor & 3 upper floors
4. Type of Occupancy - Educational.
5. Floor-wise details of occupancy
Ground floor - 91 class rooms, principal room, office
room, staff room, 3 rest rooms &
electrical room
1st floor to 3rd floor - 91 class rooms, library room
6. Height of the building 14.98 mtrs.
7. Site Area 18,646.92 Sq. mtrs.



8. Built-up area of each floor

- Ground floor - 2,698.96 Sq.mtrs.
- 1st floor - 2,594.60 Sq.mtrs.
- 2nd floor - 2,594.60 Sq.mtrs.
- 3rd floor - 2,594.60 Sq.mtrs.

9. Total built-up area - 10,482.76 Sq.mtrs.

10. Surrounds of the premises

- East (front) - 07.00 mtrs wide (proposed to widen to 09.00 mtrs) road
- West (rear) - Vacant land
- North (side) - Vacant land
- South (Side) - Vacant land

B. The plan shows the following structural details indicating the fire prevention, fire fighting and evacuation measures. These measures are considered adequate as follows:-

Details (1)	Existing (2)
1. Width of the road to which the building abuts and whether it is hard surfaced to carry a weight of 45,000 kgs.	- The premises is abutting 07.00 mtrs wide (proposed to widen to 09.00 mtrs) road, located on the eastern side and the road is hardened to carry the weight of 45,000 Kgs.
2. Number of entrances and width of each	- Proposed to provide one entry/exit of 06.00 mtrs. width from 07.00 mtrs wide (proposed to widen to 09.00 mtrs) road, located on the eastern.
3. Height clearance over the entrance	- No arch or any construction has been proposed over the entrance.
4. <u>Width of open space (Setbacks)</u>	- East (front) 07.13 mtrs. - West (rear) 38.80 mtrs. - North (side) 32.15 mtrs. - South (Side) 34.31 mtrs.
5. Arrangement for parking cars	- Provision has been made to park 26 cars in open space available on the southern side.



	(1)	(2)
6.	Number of staircases	- Two
7.	Location of the staircases	- Both the staircases are designed to abut one of its end to the external wall.
8.	<u>Staircases size:-</u>	
	(a) Width of each staircases	- Each of 2.00 mtrs.
	(b) Width of treads	- 30 Cms.
	(c) Height of riser	- 15 Cms.
	(d) Number of risers in a flight	- 12 per flight
	(e) Height of hand rails	- 1 metre. As proposed, the hand rails should be provided at a height of 100cms. The gap between two verticals should not exceed 15 cms.
	(f) Head room clearance	- 03.51 mtrs.
9.	Travel distance from the farthest point and from the dead-end of the corridor to the staircases.	- Maximum 26.00 mtrs. from the farthest point and maximum 14.00 mtrs. from the dead-end of the corridor to the staircases.
10.	Number of lifts and capacity	- Two each of 13 passengers capacity.

C. While constructing the building the following fire safety measures should be incorporated:-

	Details (1)	Existing (2)	Recommendation (3)
1.	Condition of the open space	--	The allowed setbacks should be with hard surfaced. The setbacks all around shall be without any structure and projection up to a height of 5.50 mtrs. and should always kept free and clear without any construction or utilization like garden, landscaping, parking etc.
2.	Structural materials	--	RCC materials and brick walls of not less than two hours fire resistance should be used for the construction of structures. Only fire resistant materials or materials treated with fire retardant chemicals, should be used for interior decoration



(1)	(2)	(3)
		<p>work. While attending the interior decoration the fixed fire fighting systems like sprinklers/risers etc. should not be covered or shifted from their original location.</p>
3. Design of the staircases	Not indicated	<p>Both the staircases should be constructed with non-combustible materials and should be completely enclosed at each landing to prevent smoke and fire traveling from lower floors to upper floors. Enclosures to staircases should be provided with self-closing smoke-stopping swing-doors, fitted with door closing devices at the exit to the lobby. These doors should have at least half-an-hour fire resistance capacity. The staircase area should be without glazing or glass brick walls to avoid reflections. Any area of dwelling or storage should not open directly to the staircase.</p>
4. Specification of lift	Not indicated.	<p>The brick walls, enclosing the lift shafts, should be of 90 mm. thickness and have a fire resistance of not less than two hours. Shaft should have permanent vent of not less than 0.2 sq.mtrs. clear area, immediately under the machine room. Lift motor room should be preferably located at the top of the shaft and separated by the enclosing wall of shaft or by the floor of the machine room. Landing doors of lift enclosures should open into a ventilated lobby, having one hour fire resistance. Lift car doors should be of metal finish, operating automatically and should have fire resistance capacity of one hour. Exit from the lift lobby should be through a self closing smoke stopping door of 15 mm thickness, having one hour fire resistance capacity. This is to prevent smoke and fire traveling from lower floors to upper floors. The lift machine rooms should be separate</p>



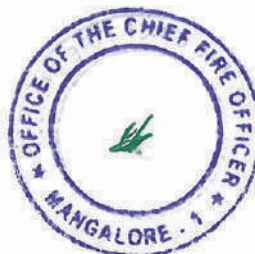
(1)	(2)	(3)
		and no other machinery should be installed therein. The lift should be connected to an alternative source of power (generator). Grounding switches, at the ground floor level, to enable the Fire and Emergency Services personnel to ground all the lift cars and use them as "FIRE LIFT" in an emergency should be provided.
5. Service ducts/shafts	---	<p>Service ducts should be enclosed by walls of 100 mm. thickness to have at least two hours fire resistance capacity. A vent, opening at the top of the service shafts, should be provided between one fourth and one-half of the area of the shafts. The electrical distribution cables and wiring should be laid in a separate duct. All the ducts should be sealed at every alternate floors with non-combustible metal doors having at least two hours fire resistance capacity.</p> <p>Water mains, telephone lines, intercom lines or any other service lines should not be laid in the duct, meant for electric cables.</p> <p>The inspection panel doors and any other opening to the shafts should be provided with airtight doors of at least two hours fire resistance capacity.</p>
6. Escape route.	Not indicated.	Directions in which the inmates 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.

D. The builder should arrange for the following fire fighting and evacuation measures:-

Details (1)	Existing (2)	Recommendation (3)
1. Electric power supply	---	Circuits for water pumps, staircase lighting and corridor lighting in the building should be by separate line and independently



(1)	(2)	(3)
		<p>connected so that they can be operated by one switch, installed at the ground floor. Dual operating switches should be installed in the service room for terminating the standby supply.</p> <p>As proposed standby generator of 100 KVA capacity shall be installed at the open space available on the eastern side to supply alternative power for staircase lighting, corridor lighting and fire fighting systems etc., in the event of failure of electricity supply in the building.</p>
<p>2. Wet riser-cum-down comer.</p>	<p>Proposed to provide three hose reel hose system.</p>	<p>As proposed three Hose reel hose of minimum 19 mm size and of adequate length to reach the farthest point of each floor, should be provided with a shut off branch having a nozzle of 5 mm size. The hose reel hose should be connected at each landing by means of an adaptor.</p> <p>Each hose reel hose system should be connected to an RCC overhead tank each of 10,000 liters capacity (Total 3 tanks) with an electrically driven pump each capable of delivering 450 liters of water per minute. (3 pumps) The impeller of the pump should be of bronze.</p>
<p>3. Manually operated fire alarm system.</p>	<p>Proposed to provide manually operated electrical fire alarm system with call boxes near each staircase landing.</p>	<p>Manually operated electrical fire alarm system should be installed with call boxes located near each staircase landing. The call boxes should be of 'break glass' type, where the call is transmitted automatically to the control room when the glass of the system is broken. This system should also be connected to an alternative source of power supply (diesel generator). The call boxes should be so installed that their location can be easily noticed from either direction and should be at a height of one metre from the floor level.</p>



(1)	(2)	(3)
4. Public address system.	Proposed to provide public address system with 2 way communication facility.	As proposed 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.
5. Portable fire extinguishers.	Proposed to provide suitable type of portable fire extinguishers, as per the requirement.	<p>a) One ABC extinguisher of 6 Kgs. capacity and 2 fire buckets filled with clean, dry, fine sand should be provided for every 8 cars in open parking area under shelter.</p> <p>b) One ABC extinguisher of 2 kgs. capacity should be provided near the entrance to electrical main switch board room.</p> <p>c) One ABC extinguisher of 6 Kgs. capacity should be provided near the transformer, if installed and near the generator.</p> <p>d) One ABC extinguisher of 6 kgs. capacity should be kept near each staircase landing on every floor.</p> <p>e) One CO2 extinguisher of 2 kgs. capacity should be provided inside lift machine room</p> <p>All the extinguishers suggested above should be with B.I.S. mark and should be located at an easily accessible position without obstructing the normal passage.</p>
7. Fire safety plan.	---	<p>A Fire Safety Plan for preventing and extinguishing any accidental fire in the building and action to be taken by the occupants in case of such fire should be prepared in advance and got approved by the Chief Fire Officer, Karnataka Fire & Emergency Services, Mangaluru. The fire safety plan, so approved, should contain the telephone numbers of the nearest Fire Control i.e.101, 11208258-237021 of Moodabidre. The plan should be distributed to all the occupants and employees in the building and should be displayed on every floor.</p>



	(1)	(2)	(3)
8.	Training.	Not indicated.	40% of the occupants/employees should be got trained in fire prevention & fire fighting at the Karnataka Fire and Emergency Services, Chief Fire officer's Office, Pandeshwara, Mangaluru-575 001, within 6 months from the date of occupation of the building. For this purpose, before approaching this department for final clearance certificate, the applicant should give an undertaking in the form of an affidavit regarding the maintenance of the fire prevention and fire fighting measures suggested above and arranging training of 40% of the occupants in fire prevention and fire fighting within 6 months from the date of issue of the clearance certificate.
9.	Assembly area	Not marked.	An area at an appropriate place in the allowed/required setbacks shall be earmarked with a proper board as " ASSEMBLY AREA " for the occupants to assemble after evacuation during practice drill and in an emergency.

E. General:-

- 1) All the fire prevention, fire fighting and evacuation measures suggested/recommended in B, C & D shall be strictly adhered to and adopted.
- 2) Hazardous materials such as petroleum products, explosives, chemicals etc. should not be stored on any floor of the building.
- 3) Refuse dumps or storage should not be permitted in any of the floors.
- 4) Liquefied petroleum gas should not be stored in the building.
- 5) Plan & occupancy should not be changed without informing the Fire and Emergency Services and without taking clearance.
- 6) The occupancy certificates should not be issued without obtaining the clearance certificate from the Fire and Emergency Services Department.
- 7) Such reasonable changes/modifications as may be found necessary after the building is fully constructed will have to be agreed to be done by the



builder/occupants of the building.

- 8) All the metal fittings of wet riser system and all the extinguishers suggested above should have B.I.S. markings.
- 9) Apart from the above, the building shall be constructed by following all the norms/measures stipulated in Part-3 & Part-4 of National Building Code and as per local Zoning Regulations of Mangaluru, approved by the Government vide Notification No.UDD 429 MyAsPra 2011, Bengaluru, Dated 26-10-2011 strictly, failing which the NOC issued will not valid.
- 10) The NOC is issued from the Fire Prevention and Fire Fighting point of view. Karnataka State Fire & Emergency Services Department will not endorse the ownership of the premises and not responsible for any disputes which may arise in a due course.

Subject to the strict adherence to the conditions laid down as above, issue of license for the under construction of low rise Educational building at Sy.No.614/1, Puthige Village, Moodabidri Taluk Dakshina Kannada District may please be considered. The applicant has remitted ₹ 20,000-00 (Rupees twenty thousand only) vide challan 673491 Dated 07-07-2022 at Union Bank Of India, Mangaluru being the NOC fees.



Yours faithfully,

Chaybeed 8/7/22
Chief Fire officer

Karnataka State Fire & Emergency Services
Mangaluru - 575 001

Copy to:

- 1) Dr. M Mohan Alva, S/o Sri M. Ananda Alva, 1-155/1, "Mijar Guttu House", Thenka Mijar Village, Mijar, Moodabidre – 574 225.
- 2) District Fire Officer, Mangaluru
- 3) Principal, Alvas Central School, Puthige, Moodbidri

