

GOVERNMENT OF MAHARASHTRA

No.MFS/s1/18/61 6
Tel No. 2667 7555
Fax No.2666 0287

Directorate of Maharashtra Fire Service
Maharashtra Fire Service Academy
Vidyanagri, Hans Bhugra Marg,
Santacruz (East), Mumbai - 400 098
Date: 30.08.2018

M/s. Eklavya Residential School,
Plot Bearing G. No. 281,282,285& 289,
At Pimpri Sadroddin,
Tal Igatpuri, Dist- Nasik.

Sub:- NOC stipulating fire protection and fire fighting requirements Proposed extension /addition to the existing of Educational Building complex of M/s. Eklavya Residential School, on Plot Bearing G. No. 281,282,285& 289, At Pimpri Sadroddin, Tal Igatpuri, Dist- Nasik.

Ref: Online Application of M/s Deore Dhamne, Architect vide No.MFS/NAC/0319/17, Dated 12/05/2017.

With reference to the above M/s Deore Dhamne, Architect on behalf of M/s. Eklavya Residential School had submitted an application for grant of "Provisional No-Objection Certificate" from this office for the proposed extension to the various existing of Educational Buildings at the above mentioned address.

The total Plot area is 1,87,300.00 Sq. Mtrs. and existing & Proposed built up area is 10907.75 Sq. Mtrs. The detail of the proposed Construction is as under. The area wise details of the proposed buildings are under.

Sr. No	Name of Building	BUA	Height in mtrs
1.	School Build	2155.34	8.10
2.	Boys Hostel	3203.46	12.40
3.	Girls Hostel	3203.46	12.40
4.	Dining Build	752.67	8.15
5.	Teachers Quarters Building	1165.40	13.96
6.	Peon Cook Quarters build	246.36	9.50
7.	Principle Build	84.86	3.90
8.	Changing Room	87.19	3.90
9.	Security Cabin	9.00	10.50

Observation & Remarks:

This is an existing educational building comprising various buildings. The architect has stated that the travel distance of all the buildings are maintained as per the norms. The site abuts MDR 30 mtrs wide road and 12 mtr wide internal road. These are existing educational buildings and it is observed from the drawings that marginal open spaces, width of the staircases, Nos. and type of staircases, Travel distance, width of common passages, access road, classroom height etc. of some of the buildings are not provided as per the requirements. Same was communicated to the architect. However M/s Deore Dhamne, Architects for the said project has stated that the said proposal is falling within the Municipal council Limits for which Standardized Development Control



Rules (DCR) of A,B & C are applicable. *As such, as per Table 14 of the aforesaid Rules, minimum marginal open space required is 6.00 Mtrs. on all sides and two enclosed type staircases of width 2.00 mtrs are required. Thus requested this office to consider the same.* Thus this office is considering the same under intimation to Planning Authority i.e. Chief Officer, Municipal Council to approve the same if it is per the rules. Hence this NOC is issued subject to the fresh approval from the Town Planning and same shall be verified and approved. If it is not as per the norms then the NOC shall be considered as cancelled and further process shall not be allowed.

In view of the above, as far as this Department is concerned, there would be no objection for proposed extension/addition to the various existing educational buildings, subject to satisfactory compliance of the following requirements, as per the details shown in the enclosed plan, signed in token of approval.

This N.O.C is valid subject to fulfillment of the following condition: -

Provisions of Maharashtra Fire Prevention and Life Safety Measures Act, 2006

1. Under **Section 3** of "Maharashtra Fire Prevention and Life Safety Measures Act, 2006" (hereinafter referred to as "said Act"). The applicant (developer, owner, occupier by whatever name called) shall comply with all the Fire and Life Safety measures adhering to National Building Code of India, 2005 and as amended from time to time failing which it shall be treated as a violation of the said Act.
2. As per the provision as **under :- 10** of the said Act. No person other than the License Agency shall carry out the work of providing Fire Prevention and Life Safety Measures or performing such other related activities required to be carried out in any place or building or part thereof provided that,
 - A) No Licensed Agency or any other person claiming to be such Licensed Agency shall give a certificate under **sub-section (3) of section 3** regarding the compliance of the fire prevention and life safety measures or maintenance thereof in good repair and efficient condition, without there being actual such compliance or maintenance.
 - B) The names of the License Agencies approved by Directorate of Maharashtra is available in our website www.mahafireservice.gov.in
3. Though certain conditions are stipulated from the said Act and the National Building Code of India, it is obligatory on part of the applicant that is developer, builder, occupier, owner, tenant, by what so ever named called to abide with the provisions of the said Act failing which it shall be actionable under the provisions of said act.
4. The plans of the building should be approved by The Concern Competent Authority.
5. The Occupancy certificate should be obtained from The competent authority. **The O.C. shall be issued subject to "Final No-Objection Certificate" from this Department.**
6. **Proper roads in the premises should be provided and marked on ground for easy mobility of the Fire Brigade Appliance as per the guidelines given in NBC-2016, & marginal spaces should be kept free from obstructions all the time. The load bearing capacity of internal roads shall not be less than 45 Tons. The width of the road shall not be less than 6.0 Mtrs for easy maneuver of the fire engine. However, the marginal open space shall be seen in to by the concern competent authority of the building proposal department.**



7. All portable fire fighting equipments installed at various locations as per local hazard such as Co2-DCP, Foam, Fire buckets should be strictly as per and confirming to IS: 15683.
8. All the fire fighting equipments shall be well maintained and should be easily accessible in case of emergency.
9. Emergency Telephone numbers like "Police", "Fire Brigade", "Hospital", "Doctors", and "Responsible persons of the company" should be displayed in security cabin & at other strategic locations
10. It shall be ensured that security staff & every employee of the College are trained in handling fire fighting equipments & fire fighting.
11. "Fire Extinguisher", "Fire Bucket" "Danger" "No Smoking" caution boards should be displayed at the places easily visible from a distance.
12. The house keeping shall be well maintained within the entire complex building.
13. Fire buckets 06 Nos. filled in with fine sand will have to be installed on strategic locations and should be easily accessible in case of emergency.
14. All electrical appliances/fitings and fixtures should be strictly flame proof.
15. No hot job should be permitted in the College building without prior permission from the concerned responsible personnel of the College.
16. In future if the said College intends to carry out any expansion, alteration, modification of any building, an approval of this department must be obtained before commencing proposed construction.

REQUIREMENT AND PROVISION: - The following Fire Protection System is required for the fire safety of the building:-

Sr. No.	FIRE FIGHTING INSTALLATION	Requirements	Provision	Remarks
1.	Portable Fire Extinguishers	Required	IS: 15683.	
2.	Hose Reel	Required at prominent places.	In all staircases	On each floor in the Staircase landing for Fire Fighting. The first aid hose reel shall be connected directly to riser/down comer main and diameter of the hose reel shall not be less than 19mm confirming to <u>IS 884:1985</u>
3.	Down comer	Required	In all staircases	Required to provide in the Staircase and Fire Escape Staircase For buildings having height more than 15 mtrs. Landing of Valve should be installed confirming to <u>IS:5290.</u>
4.	Manually Operated Fire Alarm System	Required	At Various strategic location	Manually Operated Fire Alarm should be provided; it should be connected to alternate power supply.
5.	Yard Hydrant or Ring hydrant around the	Required	At Various strategic Locations.	Fire Brigade Inlet connection should be provided. Hydrant points should be provided with

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Sr. No.	FIRE FIGHTING INSTALLATION	Requirements	Provision	Remarks
	building			2 Nos. of Delivery H confirming to IS-14933-20 along with Standard (Universal) confirming 2871. The distance between Hydrants should not be more than 45 mtrs. <u>The guidelines should be followed as per IS 3844:1989.</u>
6.	Underground Tank	Required 1,50,000 litres		This water storage should be used exclusively for Fire Fighting.
7.	Terrace Level Tank	Required 20,000 Ltrs.		On Terrace of each Building
8.	Automatic Sprinkler system	Required in lobbies, Auditorium and offices of all the buildings.		Sprinkler system should be provided on each floor. Guidelines are given in IS 15105 Design and installation of Fixed Automatic sprinkler fire Extinguishing system.
9.	Automatic Smoke Detection System	Required in lobbies and offices, Auditorium of all the buildings.		Automatic Smoke Detection system should be provided. Standards and guidelines given in IS-11360-1985 specification for Smoke Detectors for use in Automatic Electrical Fire Alarm system. <u>Detection system for Cable Trench should be provided.</u> Heat Detectors should be provided for Canteen Area as per the standards and guidelines given IS-2175-1988 specification for Heat sensitive Fire Detectors for use in Automatic Fire Alarm System.
10	Fire Pump	For Hydrant & Sprinkler 02 No. 2250 lpm electrical driven (Main + Standby) 01 No. 2250 lpm Diesel driven (If alternate source of power supply not provided) 01 450 lpm.		Fire Fighting pumps shall be well maintained. Fire pumps shall be centrifugal pumps only.

Sr. No

Sr. No.	FIRE FIGHTING INSTALLATION	Requirements	Provision	Remarks
11	Fire Brigade Connection For Static Water Tank and For Hydrant System	Required at the Main Gate		
12	Sign Indicators for all fire safety, safe evacuation of occupants in case of emergency signs	Required at Prominent Places.	Sign indicators should provided at prominent places as per the guidelines given in IS:9457 for Safety colour and Safety IS:12349 for Fire Protection Safety Signs IS:12407 for Graphics symbols for Fire Protection Plan.	
13	Manual Call Point	Required	Manual Call Point should be provided at prominent places.	

NOTE: Fix fire fighting installations such as risers, hydrant connections, hose reels etc. shall be provided in separate shaft having opening at floor level with Glass cabinet having locking arrangement to avoid theft and damage.

ALTERNATE SOURCE OF POWER SUPPLY.

An alternate source of LV/HV supply from a separate substation or from a diesel generator with appropriate changeover over switch shall be provided for fire pumps, booster pump, sprinkler pump, jockey pump, staircase and corridor lighting circuits and fire alarm system, detection system, public address system, voice evacuation system etc. It shall be housed in separate cabin.

GUIDELINES FOR INTERNAL STAIRWAYS as per NBC 2016.

- Stairways shall be constructed of non-combustible materials throughout. Hollow combustible construction shall not be permitted. Width of Staircase should not be less than 2.00 M. No Gas piping shall be laid down in the stairway.
- Internal staircase shall be constructed as a self-contained unit with at least one side adjacent to external walls and shall be completely enclosed.
- Internal staircase shall not be arranged around lift shaft unless the later is entirely enclosed by material of fire resistance rating as that for type of construction itself.
- The access to main staircase shall be gained through at least half-an-hour fire resisting automatic closing doors, placed in the enclosing walls of the staircase. They shall be swing type doors opening in the direction of the escape.
- No living space, store or other space, involving fire risk, shall open directly in to staircase.
- The external exit door of a staircase enclosure at ground level shall open directly to the open space or should be accessible without passing through any door other than a door provided to form a draught lobby.
- The exit signs with arrows indicating the escape routes shall be provided at a height of 2.0 m. from the floor level on the wall and shall painted with