



# NASHIK MUNICIPAL CORPORATION

FIRE & EMERGENCY SERVICE

E mail :- cfo@nashikcorporation.in

Office of the Chief Fire Officer

Ref. No: NMC / FIRE / WS / II / Edu.- / 0 / 2019;

DATE: 16 / 10 / 2019

To,

M/s Chairman,

Nashik Cambridge School,

C/o Shri. Sanjay G. Mhalas, Architect, Nashik

**Sub:** Requirements under Maharashtra Fire Prevention & Life safety Measures Act, 2006 for construction of Educational (School) Building, in P. No. 01, S. No. 105/2/1 +105/2/2/1, F.P.No.453, TPS-II, Nashik.

**Ref:**

1. Building approval from Town Planning Deptt, NMC, Nashik dated 21 / 01 / 2004
2. Fire Prevention Fund Rs. 1,25,037/- ( Fire Fund Rs. 1,15,775 /- + Inspection Fee Rs. 9,262 /- Paid wide Book No. 02323; Pass No. 061; dated 30 / 06 / 2016
3. Fire Prevention Fund Rs. 2,60,901/- ( Fire Fund Rs. 2,41,575 /- + Inspection Fee Rs. 19,326 /- Paid wide Book No. 7600; Pass No. 23; dated 04 / 10 / 2019 (Revised)
3. Decision by Hon. Supreme Court of India in Writ Petition (Civil) No. 438 of 2004; dated 13/04/2009

M/s Chairman, Nashik Cambridge School, Nashik, has decided to construct a Educational (School) Building, in P. No. 01, S. No. 105/2/1 +105/2/2/1, F.P.No.453, TPS-II, Nashik. submitted municipal drawings after scrutiny from Town Planning deptt. to this office through C/o Shri. Sanjay G. Mhalas, Architect, Nashik

**The details of the building are as follows,**

The building abuts on **30.00 & 9.00** meter wide road. The building is already existing

#### BUILDING DETAILS

Area of construction (Built up area of Building): 9,663 sq. mtr.+ basement + stilt + staircase etc  
Height of Building: 14.85 mtr (Below 15.00meter)  
Type of occupancy: Educational (School)  
Number of floors: Ground + 2 floors  
No. of staircases required: As per DC Rule No.17.4.4

#### SPECIAL REQUIREMENTS:-

As the proposed building is a Special buildings as specified in D.C. Rule No. 6.2.6.1, and the building is Educational building, Fire protection rules and regulations as specified in National Building code of India-2016- Part IV, (Fire and Life Safety) and Maharashtra Fire Prevention & Life safety Measures Act, 2006 become applicable as below,

#### 1. ACCESS & TURNING CIRCLE FOR FIRE BRIGADE APPLIANCES:

- 1.1 All entrances & exit gates for the complex shall be min. of 4.5-meter width and height.
- 1.2 Courtyard of the complex shall be capable of taking the weight of Fire Appliances weighing nearly 45 tones.
- 1.3 As a School building, open spaces on its all side shall be of 6.00 meter width ( Minimum) and shall be kept free of obstructions and shall be motorable for movement of Fire appliances. No parking is permissible in that area.
- 1.4 Balconies / Porches / Garages which will reduce the side marginal distance less than 6.00 mtrs will not be allowed.

#### 2. STAIRCASES:

- 2.1 The maximum travel distance should be as per D.C Rule No. 17.3.1 or as per NBC Rule.(Max. 30.0 Meter)
- 2.2 Width of any staircase or exit shall not be less than 2.00 mtrs.
- 2.3 Permanent ventilation at the top of staircase shaft shall be provided and is shall be not less than 5 % of the cross sectional area of the staircase.
- 2.4 Gas pipeline, Air condition ducts, Electrical Ducts etc shall not be passed through staircase enclosure.
- 2.5 Staircase on external walls of the buildings shall directly open to exterior or interior open space or to an open space of safety.
- 2.6 The staircases shall be lighted and ventilated and the minimum size of opening on walls abutting to open space shall be minimum 0.5 sq. meters per landing.
- 2.7 No living space, store or other Fire risk shall open directly into the staircase.
- 2.8 Minimum headroom under the landing of the staircase shall be 2.2 Mt.
- 2.9 Access to staircase shall be through a fire / smoke door of minimum 2 hours Fire Resistance rating.



2.10 No combustible material shall be used for deduction / wall paneling in staircase.

**3. ESCAPE ROUTES (CORRIDOR & LOBBIES):**

- 3.1 The corridors and lobbies on each floor landings shall be ventilated directly to open air.
- 3.2 **Smoke stop doors in adequate quantity shall be provided across the corridors considering the travel distances.**
- 3.3 All exists and escape routes shall be free from obstructions. No flammable material shall be stored in corridors, lobbies or staircase landings.
- 3.4 **Lifts and escalators shall not be considered as escape routes or exits.**

**4. DOORS:**

- 4.1 All doorways shall open outwards, away from room but shall not obstruct the travel passage along any exit.
- 4.2 If numbers of student in a class **exceeds 45**, there shall be **two doors** to the class-room.

**5. ELECTRICAL SERVICES:**

- 5.1 The electric distribution cables / wiring shall be laid in separate duct. The duct must be sealed at every floor with non-combustible material having the same fire resistance rating as that of the duct.
- 5.2 Medium and low voltage wiring running in shaft & false ceiling shall run in separate conduits.
- 5.3 Water mains, telephone lines, gas pipes or any other service lines shall not be laid in the duct for electrical cables.
- 5.4 Separate circuits for fire fighting pumps, lifts, staircase and corridors lighting and blowers for pressurizing system shall be provided directly from the main switch gear panel and these circuits shall be laid in separate conduit pipes, so that one circuit will not affect the other.
- 5.5 Suitable circuit breakers shall be provided at appropriate points.
- 5.6 No other storage except electrical meters and panel board shall be allowed in electric control room.

**6. FIRE PROTECTION SYSTEM:**

As per National Building code-2016, Part-IV & Maharashtra Fire Prevention & Life safety Measures Act, 2006 the following fire protection system will have to be installed for the safety of the building.

**6.1 Fire Protection Required**

Sr. No.	Protection	Requirements	Provision	Remarks
1.	Portable Fire Extinguishers	Required	IS: 2190	On each floor & in Lift machine room
2.	Hose Reel	Required	IS: 884 : 1985	On each floor
3.	Down Comer	Required		
4.	Yard Hydrant	Required	IS:3844:1989 & IS 13039:1991	
5.	Underground Static Water Storage Tank	Required 50,000lirs		Separate for Fire Fighting
6.	Terrace tank	Required 10,000 ltrs		Dedicated for Fire Fighting
7.	Fire Pump	1620 LPM- 1 no. electric driven 1620 LPM.- 1no. diesel driven 180 LPM - 1no. electric driven.		1620 lpm @70mtr. Head (Min)
8.	Fire Brigade Connection for static water tank & for hydrant system.	Required ( 4-WAY)	Near main entry gate.	At ground floor, @ 1.0 mtr above GL
9.	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.	

**6.2 Approval of Drawings of Fire Protection System:**

Detailed drawings of Hydrant system, detection system & sprinkler system etc will be submitted for the approval of Fire Brigade department before starting of actual work

**7. FIRE DRILLS & FIRE ORDERS (Including EMERGENCY EVACUATION PLAN):**

Fire notices / orders shall be prepared to fulfill the requirements of fire fighting and evacuation from the building in event of Fire and other emergency. The occupants shall be made thoroughly conversant with their actions in the event of emergency by displaying fire noticed at vantage points and also through regular training. Such notices should be displayed prominently in broad lettering.

**Emergency evacuation and disaster management plan shall be prepared and followed strictly.**

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**8 FIRE CONTROL ROOM:**

There shall be a control room on the entrance floor of the building with communication system (suitable Public Address system) to all floors and facilities for receiving the message from different floors. Details of all floor plans along with the details of fire fighting equipment and installations shall be maintained in fire control room. The fire control room shall also have facilities to detect the fire on any floor through indicator boards connection; fire detection and alarm system on all floors. The maintenance of the various services and fire fighting equipments and installations in co ordination with security, electrical and civil staff of the building shall be done periodically as per norms.


**9. GENERAL CONDITIONS:**

- 9.1 No flammable / explosive material shall be stored in the premises before prior permission from the concern department including Fire Brigade.
- 9.2 All fire fighting equipments shall be as per IS specifications bearing I.S.I. mark
- 9.3 Fire fighting systems shall be painted with PO red color.
- 9.4 Sign board such as 'No Smoking', 'Exit', 'Emergency Exit', 'Emergency Phone Nos.', 'First Aid Box', Fire orders/ drill instructions etc shall be provided at prominent places. They shall be painted in **Marathi, Hindi and English** with reflective / glow paint only.
- 9.5 While providing all fire and life safety provisions, the **National Building code of India 2016 - Part IV & Maharashtra Fire Prevention & Life safety Measures Act, 2006** will be strictly followed.
- 9.6 The undersigned reserves right to amend any additional recommendations deemed fit during final inspection due to statutory provisions amended from time to time and in the interest of the protection of life & property.

- Note:-**
- i) Architects & Owner/builder are requested to read Following Requirements / terms and conditions carefully.
  - ii) If any of the Following requirements are not fulfilled or completed during construction, Final NOC from this department will not be issued.
  - iii) The License Agency who will install the fire Protection system will be responsible for servicing & maintenance of the system and to issue the 'Form B' certificate in January and July month of every year for next Five years.

Copy to ;  
A.D.T.P / Executive Engineer (Town Planning Dept)  
Nashik Municipal Corporation.

Please issue commencement certificate after fulfilling the above requirements in view of Fire & Life safety.

  
CHIEF FIRE OFFICER  
Nashik Municipal Corporation.

  
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