



**OFFICE OF THE CORPORATION OF THE CITY, NAGPUR
(FIRE & EMERGENCY SERVICE)**

Chhatrapati Shivaji Maharaj Prashashkiya Bhawan, Mahanagar Palika, Civil lines, Nagpur - 440 001
Ph. No.: 0712-2567777, Fax No.: 0712-2561584

No. FES/ 022 /CFO

Date:-20/6/2020

To,

✓ 1) M/s. Bishop Cotton School, (C.B.S.E.),
KH No. 171, Mouza - Sitabuldi,
Sadar, Civil lines, Nagpur.

Sub: First No-objection certificate in respect of adequate and effective installation of Fire safety measures in the Educational Building.

Ref :- 1) Owner Application on dated 18.06.2020.



In reference to the above letter along with tentatively approved building plans and application of owner and architect dated 18.06.2020 submitted by M/s. Bishop Cotton School, (C.B.S.E.) the recommendation in respect of adequate and effective installation of Fire safety measures are being suggested in accordance with provision of Maharashtra Fire Prevention and life safety measures act 2006 for Existing Educational building on KH No. 171, Mouza - Sitabuldi, Sadar, Civil lines, Nagpur the same should be strictly adhered to and complied with. This letter shall be read along with the enclosed approved building plan.

I} Building Details :-

- 1. Name & Address of the owner: M/s. Bishop Cotton School, (C.B.S.E.).
- 2. Location & Address of the building:- KH No. 171, Mouza - Sitabuldi, Sadar Civil lines, Nagpur.
- 3. Name of Architect : Shri. Sachin K. Kukade.
- 4. Name of License Agency : M/s. Gentech Engineering Services, Nagpur License No. MFS-LA/RF-0198, MFS-LA/RD-0269.
- 5. Present Position : Existing G+1 Floor.
- 6. Total Plot Area : 14742.09 sqm.
- 7. Total B. U. Area : 2440.82 sqm.
- 8. No. of Buildings : 01 No.
- 9. Height of Building : 8.80 mtr (As per submitted Proposed Plan)

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& C. M. M. S. NAGPUR**

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10. No. of Floors : G+1 Floor. as per show in plan.
 11. No. of Lifts : 1 nos.
 12. Classification of Building : Educational Building.
 13. Street/ Road for maneuverability of fire vehicle : 18.00mtr wide road.
 14. Basement Ramp Shall be confirming as per NBC-2016 Part IV-Clause No.4.4.2.4.3.5.
 15. Means of Escape : -

Staircase	No. of Staircase	From	Width
Internal Staircase	01 No.	Ground to Terrace Floor	1.2mtr.
Emergency Staircase	N.A.	N.A.	N.A.

16. Marginal space around the building for movement of fire vehicle with proper turning circle.(As per submitted plan)

Front side	12.00mtr.
Rear Side	6.00mtr.
Side (i)	6.00mtr.
Side (ii)	6.5mtr.

17. Exposure Hazard :

East	Servant Quarter.
West	18.00 mtr road.
North	road.
South	Military-Quarter.

18. The area wise details of each floor & their use are as under :-

Sr. No.	No. of Floor	Built up Area in SQM	Occupancy/Use
1.	Ground Floor	1228.31 sqm	Class Room, Principal Office, Administrative.
	First Floor	1212.51 sqm	Class Room, Lab.

II) This First No-Objection Certificate is mere recommendation letter and is valid subject to fulfillment of the following conditions:-

6. The Plans (adhering to Relevant Development Control Rules & National Building Code-2016 where necessary) of the Existing construction should be sanctioned/approved by Competent Authority ADTP/NIT & others.
7. The B.C.C/Occupancy Certificate Shall be issued from competent authority subject to Final N.O.C. from this department as per Fire Act 2006 under section 3(2).

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 M.P. Corpn.

8. Under section 3 of Maharashtra Fire Prevention and life safety measures Act, 2006(hereafter referred to as "said Act").

The applicant (developer, owner, occupier by whatever name called) shall comply all the fire and life safety measures adhering to National Building code of India, 2016 and as amended from time to time failing which it shall be treated as a violation of the said Act.

9. As per Provision as under section 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.

10. Though certain conditions are stipulated from the said Act and National Building code of India, it is obligatory on part of the applicant that is developers, builder, occupier, owner, tenant, by what so ever named called to abide with the provision of said Act failing which it shall actionable under the provisions of said Act.

11. As per Fire Act 2006 Under Section 3(1) Minimum requirement for fire fighting installation, The following fire protection system shall be provided.

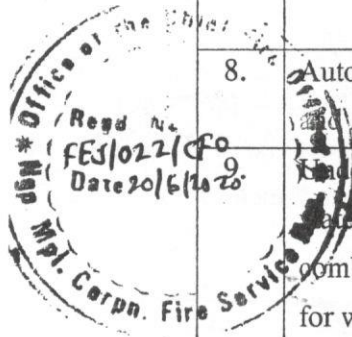
Sr. No.	Fire Fighting Installation	Requirement as per NBC 2016 & Fire Act 2006	Remarks
1.	Portable Fire Extinguisher	Required at each floor.	Shall be conforming to IS:15683 & placed at strategic location & NBC-2016 IV Clause 5.1 should be accordance with accepted standard 4(17).
2.	Hose Reel	Required at each floor.	On each floor in the staircases landing for fire fighting. The first aid hose reel shall be connected directly to hydrant line and diameter of the hose reel shall not be less than 19mm confirming to IS:884:1985 & NBC-2016 Part IV clause 5.1.1(b), 4(18), 4(17).



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3.	Hose Box	Required at each floor.	With Front side glass containing hose pipe of 30 mtrs length & Branch pipe shall be provided. As shown in map.
4.	Wet Riser/Down Comer	Required at each floor.	2 nos Wet Riser/Down Comer as shown in map having 100/150mm G.I. Pipe "C" type in vertical position connected to water source through pump with hydrant outlet on each floor (0.9 mtrs. above landing) Required to provide near main Staircase, Landing of Valve should be installed confirming to IS:5290 & NBC part IV clause 5.1 & accepted standard 4(19)
5.	Yard Hydrant or Ring Hydrant around the building	Not Required.	Not Required.
6.	Automatic Sprinkler System	Not Required.	Not Required.
7.	Manually Operated Electronic Fire Alarm System	Required at each floor.	Manually operated Fire alarm should be provided; it should be connected to alternate power supply in case of emergency.
8.	Automatic Detection and Alarm System	Not Required.	Not Required.
	Underground Static Water Storage tank combined capacity for wet-Riser, Yard Hydrant and Sprinkler per set of pumps	Not Required.	Not Required.
10.	Terrace Tank over Respective Tower Terrace	Required 10,000 lit.	This water storage should be used exclusively for fire fighting purpose.
11.	Pump Near Underground Static	Not Required.	Not Required.



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	Water Storage Tank(Fire Pump)with minimum pressure of 3.5 kg/cm ² at Remotest location		
12.	Pump near the terrace tank level with minimum Pressure of 3.5 kg/cm ²	450 lpm Booster pump should be provided on terrace level.	With minimum pressure of 3.5 kg/cm ² .
13.	Fire Brigade connection for Static water tank and for Hydrant System	Required at Main Gate.	As be visible and accessible.
14.	Sign Indicators for all fire safety safe evacuation of occupants in case of emergency signs	Required at Prominent Places.	as per the guidelines given in IS:9457 for safety color and safety signs IS:12349 for fire protection safety signs IS:12407 for Graphics symbols for Fire Protection Plan.
15.	Access to DG Backup	Required.	Required for all fire safety systems as per NBC-2016 Part IV- clause No.3.4.6.2.
16.	Fire Resistance Door	Not Required.	Not Required.
17.	Fire Alert Hot line security system	Not Required.	Not Required.

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12. The Travel distance to be travel from any point of the building should not exceed in any case as prescribed in Table 5 of NBC-2016-Part IV.
13. Exit doorways should be confirming as per NBC-2016 Part IV clause No.4.4.2.4.1
14. Means of Access to premises shall be in the form of road of suitable width and load bearing capacity of 45 Tons.
15. Width of entrance to the building shall be more than 4.5 mtr with vertical clearance of 5 mtr.
16. The construction material use for the building shall be of noncombustible material.

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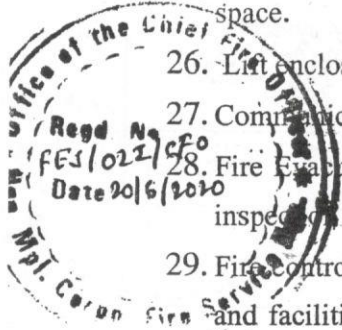
17. Electrical Installation should be confirming as per NBC-2016 Part IV clause No.3.4.6.
18. Location of Electric Sub-Station or Transformer Room:- As should be safe side or out of building margin.
19. Electric Wiring Shall be metal conduit and cables shall be laid in separate duct this duct shall be sealed at every landing. The entire Electrical circuit shall have safety devices as circuit breaker arrangement that is MCB, ELCB, etc.
20. Electric main switch shall be easily visible, accessible and safe location.
21. Emergency power supply i.e. Standby Generator capable of to supply power to staircase, corridor, lighting circuit, lift, exit signs & fire pumps shall be Provided to this building.
22. Air Pressurized system near the staircase shall be provided.
23. Air-Conditioning system: If provided with AHU or centralized A/c plant than. :- Shall conform to part 8 section 3 of NBC. & NBC-2016 Part IV clause No.3.4.8.

Note:- Dampers & AC ducts according with good practice 4:12. Utility ducts shaft C1.0 & C1.10 as per NBC. Electric ducts /shaft each floor non-combustible,

- c. Automatic fire dampers shall be provided in duct, & at the inlet of the Fresh air.
- d. A.C. dampers shall be closed automatically, upon operation of a Detector/sprinkler.
- c. Air ducts for every floor shall be separated.
- d. Separate AHU for each floor.

24. Fire Resistance doors at near emergency staircase shall be provided.
25. Ventilation for supply of outside air into basement or the removal of inside air from enclosed space.

26. Lift enclosures, landing doors in lift enclosures, shall have a fire resistance.
27. Communication system at lifts shall be connected to fire control room for the building.
28. Fire Evacuation Drill shall be carried out at regular interval and record shall be maintained for inspection of fire service department.
29. Fire control room on the entrance floor at the building with communication system to all floors and facilities for receiving the message from different floors as well as Fire control room shall also have facilities to detect the fire on any floors through indicator board connection.
30. Refuge Area shall be confirming as per NBC 2016 Part IV Annex E, E-4.
31. Lightening Protection shall be provided to this building:-As per NBC-2016 Part IV clause No.3.4.6.5 & Part 8 "building service Section 2 Electrical & Allied Installations"
32. Emergency Staircase/Internal Staircase corridor, Exit Way, Escape route should be free from obstruction by good house keeping.
33. No Mobile Tower to be erected over this building without prior permission from this department.



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- 34. Cautionary boards such as "DANGER", "NO SMOKING", "EXIT", "FIRE ESCAPE" strategic location to guide the occupants in case of emergency. The sign shall be of Florescent type and shall glow in dark.
- 35. FRLS (Fire retardant low smoke) cables shall be used for all installation.
- 36. Balconies/terrace shall not be covered and shall be kept open to serve as refuge area.
- 37. House-keeping to be maintain as per Annexure C7(NBC Part 4).
- 38. No inflammable liquid shall be stored in this building other than domestic use.
- 39. All gaps between floor-slabs and façade assembly shall be sealed at all levels by tested & listed system of Fire rated spray & rockwool of equal fire rating as that of floor slab to prevent fire and smoke propagation from one floor to another (Ref-NBC2016 — clause 3.4.10.2(b)).
- 40. The shaft shall be sealed at every floor with fire stop system having the same fire resistance as that of the floor, fire stop system which is listed, needs to be tested for required hourly rating should pass hose stream test as per IS 12458. (Ref NBC -2016 clause 3.4.7 and clause 3.4.6.5).
- 41. The space between cables/conduits and the walls/slabs shall be filled in by a fire stop material having fire resistance rating of not less than 120 min fire stop system which is listed, needs to be tested for required hourly rating should pass hose stream test as per IS 12458 (Ref NBC 2016 clause 3.4.5.4).
- 42. The owner occupier shall deposit 1% of Fire prevention fees every year to this department.

There will be final inspection after complying the above arrangement. The aforesaid fire safety/fire protection conditions/directive shall be complied with before the occupation of the building under intimation to this department.

The undersigned reserves the right to amend any additional recommendations deemed fit during the stage wise inspection due to statutory provisions amended from time to time and in the interest of the protection of the building.



**NAGPUR MUNICIPAL CORPORATION
FIRE SERVICE DEPARTMENT.**

[Signature]
20/6/2020
I/c Chief Fire Officer
Fire and Emergency Service
Nagpur Mpl. Corporation.

Encl: One copy of Map.
Copy to: 1) Station Officer,
Civil Fire Station.

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