

Office of the Director General of Police
Commandant General, Home Guards &
Director of Civil Deffence and
Director General Karnataka State Fire &
Emergency Services
No. 1, Annaswamy Mudalliar road
Bengaluru - 560 042



Phone : 25570733
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No.GBC(1)227/2021

23-07-2021

To,

The Principal,
M/s.National Public School,
Sy.No.81, 3rd Cross, 60 Ft. Road,
Uttarahalli, Dr.Vishnuvardhan Main Road,
Banashankari 6th Stage,
Bengaluru – 560 061.

Sir,

Sub : Issue of Advice from the fire prevention, fire fighting and
Evacuation measures point of view for Educational Building
constructed and occupied at Sy.No. 81, Uttarahalli Village &
Hobli, Bengaluru South Taluk, Bengaluru

Ref: Your letter dated 18-06-2021.

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With reference to the subject and reference cited above, the premises of **National Public School** situated at Sy. No. 81, Uttarahalli Village & Hobli, Bangalore South Taluk, Bengaluru was jointly inspected by the Dy.Director (Admin) and Chief Fire Officer, Bengaluru West Zone on 24-06-2021 with respect to Fire prevention, Fire fighting and Evacuation measures to be complied in the above premises and has submitted the details as under;

ANNEXURE-B

NBC-2016, Part-4, Table 7 (11) 3.1.3 Group B Educational Buildings Sub division B1 & B2.
(These condition are indicative and not exclusive all relevant provisions related to fire and life safety of NBC 2016 are mandatory)

A. Details of the building / premises :-

| | | | |
|-----|------------------------------------|---|--|
| 01. | Name and Address of the Applicant. | : | The Principal, National Public School, Sy. No. 81, Uttarahalli Village & Hobli, Bangalore South Taluk, Bengaluru. |
|-----|------------------------------------|---|--|

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|-----|--|---|---|
| 02. | Name and Address of the premises. | : | National Public School, Sy. No. 81, Uttarahalli Village & Hobli, Bangalore South Taluk, Bengaluru. |
| 03. | Number of buildings | : | One building. |
| 04. | Number of floors | : | Ground and 5 upper floors |
| 05. | <u>Floor-wise details of occupancy:-</u> | | |
| | Ground floor | : | 4 Montessori class rooms, 6 kindergarten class rooms, chairman, presidents room, conference rooms, board room, reception, counseling room, sports room, principal and vice principal room |
| | 1 st floor | : | 12 class rooms, vice principal room, library senior cyber laboratory, reception etc., |
| | 2 nd floor | : | 13 class rooms, vice principal room, junior cyber laboratory, reception etc., |
| | 3 rd floor | : | 21 class rooms, vice principal and staff room. |
| | 4 th floor | : | 15 class rooms, vice principal room, maths laboratory, history laboratory, geography laboratory and staff room. |
| | 5 th floor | : | Auditorium, yoga room, 2 dance rooms, 3 music rooms, arts room, theater room, audio – visual room & staff room. |
| 06. | Height of the building | : | 19.00 Mtrs. |
| 07. | Site area | : | 45,641.20 Sq. mtrs. |
| 08. | <u>Built-up area of each floor:-</u> | | |
| | Ground floor to 3 rd floor (2602.18 Sq. mtrs on each floor X 4 floors) | : | 10,408.72 Sq. mtrs |
| | 1 st floor | : | 2596.30 Sq. mtrs |
| | 2 nd floor | : | 2643.66 Sq. mtrs |
| 09. | Total built-up area | : | 15648.88 Sq.Mtrs. |

| | | |
|--|---|---|
| 10. | <u>Surrounding properties:-</u> | |
| | East : | Private property and space reserved for parking and other facilities |
| | West : | Private property |
| | North : | 18.00 mtrs wide approach road |
| | South : | Remaining area of Sy. No. 81 |
| 11. | <u>Setback area available around the building</u> | |
| | Front (North) : | 08.00 Mtrs |
| | Rear (South) : | 02.00 Mtrs after that rock area nearly 1acer and the height of the rock area is 13.40 mtrs. |
| | Side (East) : | Min 15.00 Mtrs. |
| | Side (West) : | 08.00 Mtrs |
| Allowed setbacks should be maintained free from further any construction / obstruction for easy movement of emergency vehicles. | | |

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

| Sl. No. (1) | Details (02) | Existing (03) | Recommendations (04) |
|-------------|-------------------------------|--|---|
| 01. | Accessibility to the Premises | The premises is abutting 18.00 mtrs wide main road located on Northern side. The road is hardened to carry the weight of 45,000 kgs. | Adequate |
| 02. | Number of entrances | One entry and one exit each of 03.70 mtrs width has been provided. | The existing entry (min one entry) width should be widened to minimum 06.00 mtrs for easy movement of Emergency vehicles. |

| | | | | |
|-----|------------------------|---|---------------------------|----------|
| 03. | Diesel generator | one. standby Generators, each of 320 KVA capacity have been provided at ground floor of the building and connected to all the staircase lighting, corridor lighting, fire lifts and fire fighting systems | | Complied |
| 04. | Number of staircase | Nos. of staircases | : 03 | Complied |
| | | Width of staircases | : Each of 02.00 mtrs | |
| | | Width of treads | : 30 Cms | |
| | | Height of risers | : 17 Cms | |
| | | Nos. of riser per flight | : 10 No' | |
| | | Height of handrails | : 01.00 Mtrs | |
| | | Head room clearance | : 02.70 Mtrs | |
| 05. | Number of lifts | No of lift | : One | Complied |
| | | Capacity | : 08 passengers capacity. | |
| 06. | Portable extinguishers | <p>08 Nos. of ABC type fire extinguishers, each of 06 kgs capacity has been provided in each floor of the building..</p> <p>One mechanical foam extinguisher of 9 ltrs capacity & One ABC type extinguisher of 6 kgs capacity has been provided near diesel generator.</p> <p>One CO₂ type fire extinguisher, of 4.5 kgs capacity has been provided near each electrical panel board & electrical room</p> | | Complied |

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|-----|---|--|---|
| 07. | Down comer system | 02 down comer systems, near the staircases has been provided. The riser is of 100 mm internal diameter and of G.I.'C' class pipe. From each riser single hydrant outlet has been provided at each landing. | In addition of existing system one down comer system should be provided. |
| 08. | Hose reel hose system | Hose reel hose of 36 mtrs. length with drum and 2 Nos. rubber lined delivery hose pipes, each of 15 mtrs. length with gunmetal branch pipe have been provided inside each hose cabinet, near each outlet have been provided. | In addition of existing system one hose reel hose system should be provided. |
| 09. | Terrace tank over respective tower terrace. | The system has been connected to an overhead tank of 25,000 ltrs capacity. | Each down comer system (03 down comer system) should be connected to an over head tank of 25,000 ltrs capacity (Total 75,000 ltrs) |
| 10. | At the terrace tank level with minimum pressure of 3.5 kg/cm ² . | The system is connected to a booster pump of 900 LPM capacity. | Each down comer system should be connected to an booster pump of 900 LPM capacity (total 03 booster pump should be provided) |
| 11. | Manually Operated Fire alarm system | Not provided | Manually operated fire alarm system should be provided with call point near each staircase landing at each floor and its control panel at ground floor of the building. |

| | | | |
|-----|--------------------------------|----------------|--|
| 12. | Public Address system | Not provided. | Public address system with two way communication facility should be provided at each floor near each staircases landing with its console at control room, located at ground floor of each building. |
| 13. | Escape routes | Not displayed. | Direction in which the students have to move in the event of an emergency should be displayed in the corridor on each floor during evacuation. |
| 14. | Fire order (Fire safety plans) | Not displayed. | A notice board Have been indicated the action should be taken by the employees in case of any emergency should be displayed with the telephone number of Banashankari fire station i.e 080 - 22971539 & 101, 22971500, 550 & 600 and the telephone number of nearest ambulance service & Police station. |
| 15. | No smoking board | Not displayed. | COTPA Sec-4 direction No Smoking area smoking here is an offence board should be written in English & Kannada both language shall be prominently displayed at inside the entry / exit of the each floor. |


| | | | |
|-----|--|--------------|--|
| 16. | Fire fighting training | Not imparted | At-least 40% of the staff should be got trained in basic fire fighting at R.A. Mundkur Fire and Emergency Services Academy, Bannerughatta road, Bangalore. |
| 17. | <p><u>Fire precautionary measures :-</u></p> <p>A. Explosive and flammable materials should not be stored in the store room, UPS room, Electrical panel area, class rooms, laboratory & electrical sum panel premises.</p> <p>B. Accumulation of combustible waste in and around the premises should be avoided.</p> <p>C. The exit ways shall be always kept clear without any obstruction.</p> <p>D. Liquefied petroleum gas should not be stored in the building.</p> <p>E. The doors shall not be kept locked / latched during working hours and shall be free from obstruction.</p> <p>F. During the class hours the class room doors shall not be locked from inside to out side.</p> <p>G. As per Hon'ble supreme court order all teachers and staffs shall be trained to handle safety equipment, initiate emergency evacuation and protect their students in the event of fire and other emergency and the school shall observe the Fire Safety Day on April 14th of every year by conducting Fire Safety drills with co-ordinate with fire service department.</p> | | |

Karnataka Fire and Emergency Services Department is issuing Fire Advice Certificate to High Rise Educational Building comprising of Ground and 5 upper floors situated at Sy. No. 81, Uttarahalli Village, & Hobli, Bangalore South Taluk, Bengaluru, subject to compliance of recommendations mentioned above within 90 days and thereafter renewal of this building once in 2 years as per notification No. HD 33 SFB 2011 Dated: 07-07-2011, issued by the Home department, Government of Karnataka.

Note: This is only the 'Fire Advice' issued by the Fire Department from fire safety point of view for the Building constructed and occupied, this should not be considered as NOC for any purpose.

**Draft approved by the
D.G.P & D.G.**

Yours faithfully,


(K.Shivakumar) 23.7.21

For Director General of Police
and Director General,

Karnataka State Fire & Emergency Services.

Copy to:

- 1) The Dy. Director (Admin), Fire and Emergency Services, Bengaluru
- 2) The Chief Fire Officer, Bengaluru West.