

FORM 'H'
FORM FOR ISSUING FIRE SAFETY CERTIFICATE
[Refer sub - rule (1) of rule 35]
GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
HEAD QUARTERS: DELHI FIRE SERVICE, CONNAUGHT PLACE
NEW DELHI

No.F6/DFS/MS/School/2022/ 127

Dated 28/02/2022

FIRE SAFETY CERTIFICATE

Certified that the Building N.K Bagrodia Global School, Located at, Sector - 17, Phase - II , Dwarka, New Delhi - 110078 comprised of Ground + 3 Upper Floor was issued FSC vide Letter No. F6/DFS/MS/School/2018/SZ/2321 Dated-15/10/2018. The premises was re inspected by the officer concerned of this department on 27-01-2022 in the presence of Mrs. Jaishree Nawani and found that the said building have deemed complied with the fire prevention and fire safety requirements in accordance with rule 33 of the Delhi Fire Service Rule, 2010 and that the premises is fit for occupancy class-B "Educational" with effect from 08/02/22 for a period of three years in accordance with rule 36 unless renewed under rule 37 or sooner cancelled under Rule 40 and subject to compliance of the conditions under rule 38 of the Delhi Fire Service Rules, 2010.

Issued on 08/02/22 at New Delhi by.

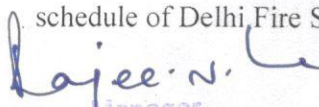

(Sunil Chaudhary)
Dy. Chief Fire Officer
Delhi Fire Service.

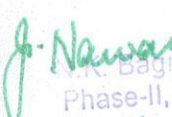
Copy to:

1. Directorate of Education Old Secretariat Delhi - 110054.
2. The Principal, N.K Bagrodia Global School, Sector - 17, Phase - II , Dwarka, New Delhi - 110078.

Following fire safety directives must be adhered to:-

- 1 All the fire safety arrangements provided therein shall be maintained in good working condition at all times.
- 2 Any loss of life or property due to non-functional fire safety measures shall be at the risk and responsibility of the management.
- 3 The trained staff should be available round the clock.
- 4 Any deviations w.r.t. construction shall be verified by the concerned building sanctioning agency.
- 5 The certificate may not be treated in any case for the regularization of the unauthorized construction, if any.
- 6 The owner/ occupier shall apply for renewal of this Fire Safety Certificate to the Director in Form 'J' [sub rule (1) of rule 37] along with a copy of this certificate, six months prior to its expiry.
- 7 Basement shall be used strictly as per building bye laws.
8. The owner/occupier shall submit a declaration every year in the form 'K' provided in the first schedule of Delhi Fire Service Rules 2010, form is available on www.dfs.delhigovt.nic.in


Manager
N. K. Bagrodia Sec. 17
Global School, Dwarka


Principal
N.K. Bagrodia Global School
Phase-II, Sector-17, Dwarka,
110078



GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
HEADQUARTERS: DELHI FIRE SERVICE: NEW DELHI- 110001

No F. 6 / DFS / MS / BP / 2023 / 366

Dated 13/07/2023

To,

The Executive Engineer, (Bldg) HQ,
Municipal Corporation of Delhi,
9th Floor Civic Centre, Minto Road,
New Delhi-110002.

Sub: Clearance of online building Plans in r/o addition/alteration in existing Sr. Sec. School Building at sector-17, Dwarka, New Delhi (For Seth Sagarmal Bagrodia Charitable Trust) from fire safety point of view.

Sir,

Please refer your online ID No. 10115973 dated 07/07/2023 on the subject cited above. In this connection it is to inform you that the referred building plans have been scrutinized from fire/life safety point of view and observed that there is a proposal of addition of fourth floor in an existing G+3 storied Sr. Sec. School Building at sector-17, Dwarka, New Delhi on a plot area of 8000.90 m². The height of the building shall be 17.95 meter up-to terrace level after addition of fourth floor. The detail of existing and proposed covered area is as under:

Floors	Existing Covered Area	Proposed Covered Area	Use
Ground	1789.20 m ²	Nil	Class Rooms & office
1 st	1789.20 m ²	Nil	Class Rooms & MP Hall
2 nd	1789.20 m ²	Nil	Class Rooms & Labs/library
3 rd	1789.20 m ²	Nil	Class Rooms & Labs
4 th	Nil	1402.32 m ²	Class Rooms & Labs

There is no objection from this department for the addition/alteration in the existing school building subject to the compliance of the following fire safety recommendations.

- 1. Access to building:** The plot abuts on 30 meter wide road and the building is accessible through 6.0 meter wide main gate. The entrance gate shall fold back against the compound wall of the premises thus leaving the exterior access in the plot. The archway, if any, shall not be at a height less than 5 meters. It must be ensured that 6 meter wide fire tender movement road with 9 meter turning radius, all around all high rise building as proposed on the plans must be kept clear from all hindrances all the time for free movement of fire engines. This shall be in accordance with clause 8.2 of UBBL-2016.
- 2. Number, width, Type and Arrangement of Exits:** Total six staircases [4 - 1.5 m & 2 - 1.35 m width], serving from ground to terrace, are proposed in the school building. All staircases shall be continuous to terrace level. The clear-cut width of the staircases/exits shall be maintained at the time of completion. The width of doors in class rooms shall not be less than 1.2 meter. The exits/staircases shall meet the requirement of UBBL-2016. All other conditions shall meet the requirement of clause 7.23.2 of UBBL-2016. Every room with a capacity of over 45 persons shall have two doorway as per clause 6.2.2 of NBC-IV, 2016.
- 3. Protection of exits by means of fire check doors:** The fire check doors at staircases and lift are not required as the building is open to sky/air. However, FCD shall be provided at electrical rooms and other similar hazard. The fire check doors shall conform to IS 3614:2021.
- 4. Compartmentation:** The building shall be suitably compartmentalized so that the fire / smoke remain confined to the area where fire incidents have occurred and does not spread to the

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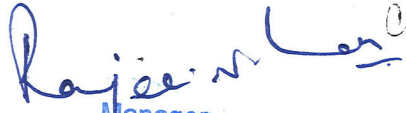
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Manager
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Sec.-17, Dwarka, New Delhi-110078

remaining part of the building. This shall conform to clause 8.4.6 of UBBL-2016 & clause 4.5 of NBC-IV-2016.

5. **Smoke Management System:** Smoke venting facilities shall be provided as per NBC Part IV-2016, Fire and Life Safety.
6. **Fire Extinguishers:** The portable fire extinguishers of ISI mark suitable to risk shall be provided in buildings and maintained in accordance with IS -2190/1992.
7. **First aid Hose Reel:** A hose reel containing 30 meter length of 20 mm bore terminating into a shut-off nozzle of 5 mm outlet connected directly to riser shall be provided in buildings as per clause 9.3.9 of UBBL-2016. This shall conform to IS: 884/1998.
8. **Automatic Fire Detection and Alarming Systems:** Not applicable.
9. **Manually operated fire alarm system:** Manually operated electric fire alarm (MOEFA) including talk back system shall be provided near to escape point in buildings as per clause 9.3.9 of UBBL-2016 and the same shall conform to IS: 2189/1999.
10. **Public Address System:** The public address system shall be provided in the building having loudspeakers in the common area. The microphone, amplifier and control switches of public address system shall be installed in the Fire Control Room.
11. **Automatic Sprinkler System:** Not applicable.
12. **Internal Hydrant and Yard Hydrant:** Down comer system near staircases shall be provided as per clause 9.3.9 of UBBL-2016 and it shall conform to IS 3844-1989. Hose box of suitable dimension shall be provided near each internal hydrant. It's design shall be such that it can be readily opened in an emergency. Each box shall contain two lengths of 63 mm diameter, 15 m length, rubber lined delivery hoses conforming to IS: 636 complete with 63 mm instantaneous coupling conforming to IS: 903, one branch pipe with a nozzle of 16 mm diameter. Yard hydrants are not required.
13. **Pumping Arrangements:** As per clause 9.3.9 of UBBL-2016, one terrace pump of 900 LPM capacity is required to be provided. The suitable orifice plate /reducer shall be provided to maintain the requisite pressure of 3.5 Bars at the remotest point. All the pumps shall be automatic in operation.
14. **Captive Water Storage for firefighting:** As per clause 9.3.9 of UBBL-2016, one overhead fire water storage tank of 25,000 liters capacity made of RCC/steel shall be provided for firefighting only. The replenishment through bore well or from the town main shall be ensured @ 1000 LPM. This shall conform to the requirements given in National Building Code of India Part IV-2016. Draw off connection/ fire service inlet shall be provided. One ladder or any other form of open access to the overhead fire water tank for inspection, shall be provided as per clause 7.10.3 of UBBL-2016.
15. **Exit Signage:** Exit signage shall be provided in the building at appropriate locations. Floor level marking, all exits and exit way-marking signs in entire complex must be illuminated and wired to independent circuit supplied by alternate source of power supply. Wiring for the illuminated exit signs shall be suitably protected against fire. Illuminated / glowing paint strips shall be provided at each level to guide the direction for escaping towards a safe place. The size and color of the exit signs shall be as per IS 9457: 1980.
16. **Provision of lifts:** One passenger lift is provided in the building. All other conditions and provisions shall be provided strictly in accordance to clause E-3 of National Building Code of India Part IV-2016 and clause 9.3.3 of UBBL-2016.
17. **Standby Power Supply:** As per clause 8.5.3 of UBBL-2016, emergency lighting, exit signs, staircase and corridor lighting circuit, fire lift, fire pumps smoke extraction system and pressurization shall be powered from an additional source of power supply like generator and shall be automatic in action. The emergency lighting system shall be capable of continuous operation for a minimum duration of 1 hour and 30 minutes. The emergency lighting shall be provided to be put on within 5 second of the failure of the normal lighting supply.
18. **Refuge Area:** Refuge area is not required.

Sr. Sec. School Building at sector-17, Dwarka, New Delhi (N.K. Bagrodia Global School). Page 2


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Principal
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19. **Fire Control Room:** As proposed on the building plans a Fire Control Room shall be established at 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 firefighting equipment and installations shall be maintained in the fire control room in digital form also. The fire control room shall also have facilities to detect the fire on any floor through indicator board connections, fire detection and alarm systems on all floors. The fire staff in-charge of the fire control room shall be responsible for the maintenance of the various services and firefighting equipment and installations in co-ordination with security, electrical and civil staff of the building in accordance with the provisions contained in clause 9.3.10 of UBBL - 2016.

20. **Special Fire Protection Systems for Protection of Special Risk:** The electric sub-station installation of Transformer, LT & HT panels shall be as per the provisions specified by the Electrical Authority. However, the following points shall be followed:-

- a. The HT & LT panels shall be separated with the walls of 02 hours fire resistance rating. It is necessary to separate shield wall extending up to the one meter on sides above the highest point of the transformer. Special protection systems as applicable shall be provided as per clause 5.1.4, 5.1.5 & 5.1.6 of NBC-IV-2016.
- a. The electrical distribution cables/wiring shall be laid in a separate duct. The duct shall be sealed at every floor with noncombustible materials having the same fire resistance as that of the duct. Low and medium voltage wiring running in shaft and in false ceiling shall run in separate conduits.
- b. Water mains, telephone lines, intercom lines, gas pipes or any other service line shall not be laid in the duct for electrical cables; use of bus ducts/ solid rising mains instead of cables is preferred.
- c. Separate circuit for firefighting pumps, staircases and corridor 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 fire in one circuit will not affect the others.
- d. The inspection panel doors and any other opening in the shafts shall be provided with air tight doors having fire resistance of not less than 2 hrs. The electric installations shall be as per BIS 1646.
- e. Nothing in contravention of the notification No. CEI/1/9/2020/263-294 dated 03.05.2021, issued by Central Electricity Authority as modified up-to date.

The Open set back area, FAR, Height restrictions etc. are not checked as it shall be checked by concerned building sanctioning authority. The approval of building plans shall be valid only for the propose occupancy / layout of the floors, shown on the plans and any subdivision of the floors and change of trade/use shall only be done with the prior approval of this department. It shall be ensured that provisions of all requisite fire and life safety measures stipulated in UBBL-2016 & National Building Code of India Part-IV-2016 shall be complied in letter and spirit before the occupancy of the building under intimation to this department. This shall not be treated as FSC/NOC from fire department.

Yours faithfully,

(ATUL SARG)

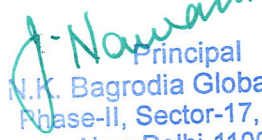
DIRECTOR

Ph: 011-23414000

Sr. Sec. School Building at sector-17, Dwarka, New Delhi (N.K. Bagrodia Global School).

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