

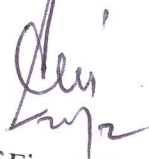
NO. F6/DFS/MS/Resid./2013/727

DATED: 20/02/13

FIRE SAFETY CERTIFICATE

Certified that the M/s Boys Hostel B (Zanskar Hostel) & Laboratory Block 1C at IIT Delhi Campus Hauz Khas, New Delhi, hostel block comprised of (basement ground plus three upper floors) & laboratory block (ground plus one upper floor) owned/occupied by M/s IIT Delhi have complied with the fire prevention and fire safety requirements in accordance with rule 33 of the Delhi Fire Service Rules, 2010 and verified by the officers concerned of Fire Service on 11.01.2013 in the presence of Mr. Rajeev Aggarwal(Fire Officer) and that the building is fit for occupancy class A- "Residential Building" & Laboratory with effect from... 20/02/13... for a period of **five 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 Rule, 2010, subject to condition as mentioned below.

Issued on ... 20/02/13... at New Delhi by


Chief Fire Officer
Delhi Fire Service
0/11

Copy to,

1. The Executive Engineer (B) HQ, Building Department, SDMC, 8th floor, Civic Centre, Minto Road, New Delhi 110002
2. Mr. Sanjeev Gupta, Institute Engineer, IIT Delhi Campus, Hauz khas New Delhi- 110016.

Conditions for the validity of fire safety certificate

- a. All the fire safety and means of escape facilities shall be maintained in good working conditions at all time. Any lapse rendering fire safety or means of evacuation facilities rendering non-functional shall be the responsibility of the management.
- b. Building Sanctioning authority may verify any deviation with regard to the construction/occupancy in the building. In case of any deviation, the fire safety certificate stands null and void.
- c. The staffs shall be trained for operating fire fighting system and mock evacuation drills be conducted at regular intervals and record be maintained.
- d. The basement shall be used strictly as per the provisions of Building Bye laws.
- e. The owner/occupier shall submit a declaration every year in form 'K' provided in the first schedule of Delhi Fire Service Rules-2010. The form is available on www.dfs.delhigovt.nic.in

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INSPECTION REPORT

| | | | | |
|---------------|--|--|--|--|
| 1 | Name & address of the building | M/S Boys Hostel 'B' (Zanskar hostel) & Laboratory Block-1C at IIT Delhi Campus Hauz Khas, New Delhi-110016 | | |
| 2 | Type of Occupancy | Residential Hostel Building/ Laboratory "A" | | |
| 3 | Type of case | New | | |
| 4 | Details of previous NOC | No | | |
| 5 | Fire safety directives letter No | F.6/DFS/MS/BP/2003/2787 Dated 12.11.2003 | | |
| 6 | Date of inspection | 11.01.2013 | | |
| 7 | Name of the inspecting Officers : | D.O. (South) D.P. Bhardwaj, ADO(BCP) S.S.Kaushik | | |
| 8 | Name and designation of officers from the building side | Mr.Rajiv Aggarwal (Fire Officer), | | |
| 9 | Year of construction | 2006 | | Laboratory Block 1C:- Ground plus one upper floor |
| | | IITD/IE/12/F/132 dated 23.08.12 | | Hostel Block (basement, Ground+Three upper floors) |
| 10 | Applicant's letter No. | | | |
| S. NO. | Minimum Standards on fire prevention and fire safety U/R 33 | NBC Requirement | Provided at site | Remarks MR / NMR |
| 1 | Access to building | | | |
| | 1) Road width | 6 mtrs | Provided | MR |
| | 2) Gate width | 5mtrs | Provided | MR |
| | 3) Width of internal road | N/A | N/A | N/A |
| 2 | Number, width Type & arrangement of exits | | | |
| | a. Number of staircases | | | |
| | 1. Upper floors | 6 Nos.Hostel Block & 2 Nos Laboartery Block | Hostel Block- 6 Nos Stairs & Laboratory Block 2 Nos. Stairs Provided | MR |
| | 2. basements | 3 Nos + Ramp | Provided | MR |
| | b. Width of staircase | | | |
| | 1. Upper floors | 1.25 Mtr | 1.25 Mtr each Provided | MR |
| | 2. basements | 1.25 Mtr + Ramp | 1.25 Mtr each Provided | MR |
| | c. Protection of exits | | | |
| | 1. Fire check door | Required | Provided | MR |
| | 2. Pressurization | N/A | N/A | N/A |
| | d. No. of continuous staircase to terrace | Required | Hostel Block 6 Nos. Stairs & Laboratory Block 1 no Provided | MR |
| | e. Width of corridor | Required | 1.5 Mtr Provided | MR |
| | f. Door size | 1 Mtr | Provided | MR |
| 3 | Compartmentation. | | | |
| | 1. Fire check door | N/A | N/A | N/A |
| | 2. Sealing of electrical shafts | N/A | N/A | N/A |
| | 3. Fire Rating of shaft door | N/A | N/A | N/A |
| | 4. water curtain | N/A | N/A | N/A |
| | 5. Fire dampers | N/A | N/A | N/A |
| 4 | Smoke Management system. | | | |
| | basement | 30 a/c per hour 12 a/c per hour | Exhust Fan Provided | MR |
| | upper floors | | Natural Ventilation | MR |

| | | | | |
|-----------|---|----------|--|-----|
| 5 | Fire Extinguishers | | | |
| | total numbers | | 50 Nos | MR |
| | Types | | Water Co2, Co2 & Foam Ty | MR |
| | ISI marking | ISI | Yes | MR |
| 6 | First-Aid Hose Reels. | | | |
| | total numbers on each floor | Required | Hostel Block 4 Nos & Laboratory Block 1 No. Provided | MR |
| | Length of Hose reel hose | 30 m | Provided | MR |
| | Nozzle Diameter | 5 mm | Provided | MR |
| 7 | Automatic fire detection and alarming system | | | |
| | Type of detectors | N/A | N/A | N/A |
| | location of Main Panel | N/A | N/A | N/A |
| | location of Repeater panel | N/A | N/A | N/A |
| | Alternate source of power | N/A | N/A | N/A |
| | hooter's location | N/A | N/A | N/A |
| 8 | MOEFA | Required | Provided | MR |
| 9 | Public Address System. | Required | Provided | MR |
| 10 | Automatic Sprinkler System. | | | |
| | basement | Required | Provided | MR |
| | upper floors | N/A | N/A | N/A |
| | sprinkler above false ceiling | N/A | N/A | N/A |
| 11 | Internal Hydrants | | | |
| | Size of riser/down-corner | 100 mm | Provided | MR |
| | Number of Hydrants per floor | Required | Provided | MR |
| | hose Box | Required | Provided | MR |
| 12 | Yard Hydrants. | | | |
| | total number of hydrants | N/A | N/A | N/A |
| | hose box | N/A | N/A | N/A |
| 13 | Pumping arrangements | | | |
| | 1. Ground level | | | |
| | a. Discharge of main Pump | N/A | N/A | N/A |
| | b. Head of main pump | N/A | N/A | N/A |
| | c. Number of main pumps | N/A | N/A | N/A |
| | d. jockey pump out put | N/A | N/A | N/A |
| | e. jockey pump head | N/A | N/A | N/A |
| | f. Standby Pump output | N/A | N/A | N/A |
| | g. Stanby Pump head | N/A | N/A | N/A |
| | h. Auto Starting/Manual stopping | N/A | N/A | N/A |
| | pump house access | N/A | N/A | N/A |
| | 2. Terrace level | | | |
| | a. Discharge of pump | 1620 LPM | Hostel Block : 1620 & 180LPM & Laboratory Block:- 450 & 180 LPM Provided | MR |
| | b. head of the pump | 40 mtr | 40 Mtr Provided | MR |
| | c. Power supply | Required | Provided | MR |
| | d. Auto starting of pump | Required | Provided | MR |

| | | | | |
|----|---|--------------|---------------------|-----|
| 14 | Captive water storage for fire fighting | | | |
| | 1. Underground tank capacity | 50000 ltrs | 50,000 Ltr Provided | MR |
| | a. Draw-off connection | Required | Provided | MR |
| | b. fire service inlet | Required | Provided | MR |
| | c. Access to tank | Required | Provided | MR |
| | Over head tank Capacity | 10,000 ltr | 10,000 Ltr Provided | MR |
| 15 | Exit Signage. | Required | Provided | MR |
| 16 | Provision of lifts. | | | |
| | a. Pressurization of lift shaft | N/A | N/A | N/A |
| | b. pressurization of lift lobby | N/A | N/A | N/A |
| | c. communication in lift car | N/A | N/A | N/A |
| | d. Fireman's grounding switch | N/A | N/A | N/A |
| | e. Lift signage | N/A | N/A | N/A |
| 17 | Standby power supply | Required | Provided | MR |
| 18 | Refuge Area. | Not Required | | |
| | total area | | | |
| | location | | | |
| 19 | Fire control room | | | |
| | a. detector system Panel | N/A | N/A | N/A |
| | b. Flow switch Panel | N/A | N/A | N/A |
| | c. PA system Panel | N/A | N/A | N/A |
| | d. Batter backup | N/A | N/A | N/A |
| | e. Building floor plans | N/A | N/A | N/A |
| 20 | Special Fire Protection systems for protection of special risks, if any: | | | |

The fire protection systems provided in the building were checked and found functional at the time of inspection.

Keeping in view the substantial compliance of the minimum standards on fire prevention and fire safety required under the rules it is recommended to grant Fire Safety Certificate under rules 35 of the Delhi Fire Service Rules 2010

Accordingly DFA is put up for your approval and signature please.

Signature of the inspecting officer

Name D. P. Bhardwaj

Designation : Divisional Officer (South)

Signature of the Inspecting Officer

Name

Designatio

S.S. Kaushik

A.D.O. (BCP)