

GOVERNMENT OF MAHARASHTRA

No. MFS/51/2023/667

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Directorate of Maharashtra Fire Service

Maharashtra Fire Service Academy

Vidyanagri, Hans Bhugra Marg,

Santacruz (East), Mumbai – 400 098

Date: 14.12.2023

To,

M/s. Prakashchand Jain Bahudeshiya Sanstha,

Gat No. 82/1/1, 82/1/2, 86/1/1, 86/1/2, 86/2/1,

Village Palaskheda Bk., Tal. Jamner,

Dist. Jalgaon.

Sub: NOC stipulating fire protection and fire fighting requirements for proposed construction of Institutional Building on Gat No. 82/1/1, 82/1/2, 86/1/1, 86/1/2, 86/2/1, At Village Palaskheda Bk., Tal. Jamner, Dist. Jalgaon.

Ref : Application No. MFS 565.22 Dated 12.12.2022

This is a proposal for construction of institutional (Hospital) building having ground floor and 03 upper floors with a total height of 15.00 mtrs. from general ground level to terrace level.

The Plot Area of the said Institution is **70,600.00 Sq. Mtrs** & the proposed built up area is **6645.16 Sq. Mtrs**. The area wise details of said institution are as under:

Building / Floor	(Built Up Area in Sq. Mt.)				Height in Mtr
	Ground Floor	First Floor	Second Floor	Third Floor	
H	629.02	620.31	620.31	620.31	15.00
I	713.00	709.40	709.40	709.40	15.00
J	456.13	447.13	401.72	-----	12.00
Total Built up area	6645.16				

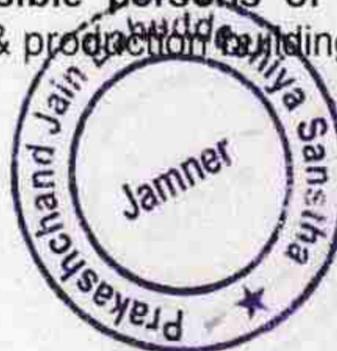
After scrutiny of the proposal, it is observed that very few buildings have applied for Fire Safety Approval in comparison to other buildings as shown in the layout. As such. Fire safety approval is accorded to only those buildings as mentioned below and thus it shall be responsibility of the owner or occupier as case may, to obtain necessary fire safety approval for other building too as per section 3 of the Maharashtra Fire Prevention and Life Safety Measures Act (Amended), 2023.

Provisions of Maharashtra Fire Prevention and Life Safety Measures Act, 2006

1. Under **Section 3** of "Maharashtra Fire Prevention and Life Safety Measures Act, 2006" (hereinafter referred to as "said Act"). The applicant (developer, owner, occupier by whatever name called) shall comply with 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.



2. As per the provision as **under :- 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 provided that,
- A) If the Director, MFS is satisfied that, for any reason, to be recorded in writing, the owner or occupier is not able to carry out the fire prevention and fire safety measures in any such place or building or part thereof through a Licensed Agency, he may authorize any person or persons he thinks fit to carry out such work, and any work carried out by such authorized person or persons shall be deemed to be carried out by a Licensed Agency.
- B) No Licensed Agency or any other person claiming to be such Licensed Agency shall give a certificate **under sub-section (3) of section 3** regarding the compliance of the fire prevention and life safety measures or maintenance thereof in good repair and efficient condition, without there being actual such compliance or maintenance. The names of the License Agencies approved by Directorate of Maharashtra is available on our website www.mahafireservice.gov.in
3. Though certain conditions are stipulated from the said Act and the National Building Code of India, it is obligatory on part of the applicant that is developer, builder, occupier, owner, tenant, by what so ever named called to abide with the provisions of the said Act failing which it shall be actionable under the provisions of said act.
4. The plans of the building should be approved by The Concern Competent Authority.
5. The Occupancy certificate should be obtained from The Competent Authority. **The O.C. shall be issued subject to "Final No-Objection Certificate" from this Department.**
6. **Proper roads in the premises should be provided & marked on ground for easy mobility of the Fire Brigade Appliance as per the guidelines given in NBC-2016, should be kept free from obstructions all the time. The load bearing capacity of internal roads must be minimum 45Tones. The width of the road shall not be less than 6.0 Mtrs for easy maneuver of the fire engine. However, the marginal open space shall be seen in to by the concern competent authority of the building proposal department.**
7. **Inspection of Fire Fighting installation will be carryout by the representative of this Fire department during installation of the Fire fighting system.**
8. All portable fire fighting equipments installed at various locations as per local hazard such as Co2-DCP, Foam, Fire buckets should be strictly confirming to relevant IS specification. All the fire fighting equipments shall be well maintained and should be easily accessible in case of emergency. The monitoring mechanism for all Fire Fighting equipment should be designed and implemented. **The Guidelines should be followed based on IS 15683 & IS-2190 – Code of Practice for selection, Installation and Maintenance of Portable First-Aid Fire Extinguishers.**
9. All the fire fighting equipments shall be well maintained and should be easily accessible in case of emergency.
10. Emergency Telephone numbers like **"Police", "Fire Brigade", "Hospital", "Doctors", and "Responsible persons of the company"** should be displayed in security cabin & production building.



11. It shall be ensured that security staff & every employee of the co. are trained in handling fire fighting equipments & fire fighting.
12. "Fire Extinguisher", "Fire Bucket" "Danger" "No Smoking" caution boards should be displayed at the places physically shown & the caution boards should be easily visible and as per the guidelines given in IS:9457, IS:12349 and IS:12407.
13. **The house keeping shall be well maintained within the entire Hospital area.**
14. Fire buckets **04 Nos.** filled in with fine sand and will have to be installed near transformer yard & utility areas and should be easily accessible in case of emergency.
15. All the containers, tanks, tapings should be well protected in view to avoid any seepage/leakage.
16. All electrical appliances/fittings and fixtures should be strictly flame proof.
17. No hot job should be permitted in process house without prior permission from the concerned responsible office of the company.
18. The Fire Exit Drill or Evacuation Drill should be plan and instruction should be given to the staff minimum **four times in a year** and drill should be carried out **twice in a year.**
19. "On-Site" & "Off-Site" emergency plan/**Evacuation Plan** shall be prepared & mock drills shall be conducted twice a year & instructions to every employee shall be given once in three months.
20. **In future if the company / developer / institute intends to go for expansion, alteration, modification of any building an approval of fire department must be obtained before commencing proposed construction.**
21. **Stability certificate to all buildings shall be obtained from Architect or competent person as per the Rule 3-A of Maharashtra Factories Rules, 1963.**
22. **The height & other clearances / approvals must be obtained from local "Civil Aviation Department".**
23. **All necessary approvals required from Government / Planning / Special Planning Authority shall be obtained, as applicable.**
24. Fire Safety in respect of storage & use of Radioactive material used for the medical treatment. Should adhere the norms & standards of Department of Atomic center Govt of India.

25. Requirement and Provision: - The following active fire protection system will be required for the safety of the building: -

Sr. No.	FIRE FIGHTING INSTALLATION	Requirements	Provision	Remarks
1.	Portable Fire Extinguishers	Required	IS: 15683 & 2190.	
2.	Hose Reel	Required at prominent places.	In all staircases	On each floor in the Staircase landing for Fire Fighting. The first aid hose reel shall be connected directly to riser/down comer main and diameter of the hose reel shall not be less than 19mm confirming to IS 884:1985

Sr. No.	FIRE FIGHTING INSTALLATION	Requirements	Provision	Remarks
3.	Wet Risers	Required	In all staircases	Required to provide in the Staircase and Fire Escape Staircase. Landing of Valve should be installed confirming to IS:5290.
4.	Manually Operated Fire Alarm System	Required	At Various strategic location	MOEFA system also include talk-back system and PA System; it should be connected to alternate power supply.
5.	Yard Hydrant or Ring hydrant around the building	Required	At Various strategic Locations.	Fire Brigade Inlet connection should be provided. Hydrant points should be provided with 2 Nos. of Delivery Hose confirming to IS-14933-2001 along with Standard Branch (Universal) confirming to IS-2871. The distance between 2 Hydrants should not be more than 45 mtrs. The guidelines should be followed as per IS 3844:1989.
6.	Underground Static Storage Tank	Required 1,50,000 ltrs		This water storage should be exclusively for Fire Fighting.
7.	Terrace Level Tank	Required 10,000 Ltrs.		On each Terrace
8.	Fire Pump	01 No. 2280 lpm electrical driven main pump 01 No. 2280 lpm Diesel driven stand by pump 01 No. 180 lpm electric driven jockey pump 01 No. 450 lpm booster pump		Fire Fighting pumps shall be well maintained. Fire Pumps shall be Centrifugal pumps. Booster pump to be provided on each Terrace
9.	Fire Brigade Connection For Static Water Tank and For Hydrant System	Required at the Main Gate		
10	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.	

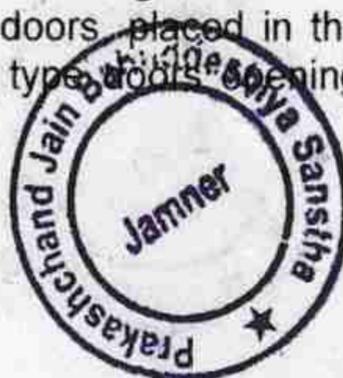
Sr. No.	FIRE FIGHTING INSTALLATION	Requirements	Provision	Remarks
11	Sprinkler system	Required for entire building (Bldg H & I)		Sprinkler system should be provided on each floor. Separate Pumping arrangement should be provided for the Basement. Guidelines are given in IS 15105 Design and installation of Fixed Automatic sprinkler fire Extinguishing system
12	Automatic Smoke Detection System	Required for entire building		Automatic Smoke Detection system should be provided. Standards and guidelines given in IS-11360-1985 specification for Smoke Detectors for use in Automatic Electrical Fire Alarm system. <u>Detection system for Cable Trench should be provided.</u> Heat Detectors should be provided for Canteen Area as per the standards and guidelines given IS-2175-1988 specification for Heat sensitive Fire Detectors for use in Automatic Fire Alarm System.
13	Manual Call Point	Required		Manual Call Point should be provided at prominent places.

Note:

1. Fix fire fighting installations such as down comer, hydrant connections, hose reels etc. shall be provided in separate shaft having opening at floor level with Glass cabinet having locking arrangement to avoid theft and damage.
2. The requirement of water capacity (underground / above / terrace) and pump capacity is given on the basis of Table 7 of the National Building Code of India-2016, Part 4 which is minimum. The system installer shall perform the hydraulic calculation and provide necessary actual water requirement for hydrant, sprinkler and water base system. The pumping arrangement shall also be calculated to provide min 3.5 kg/cm² for low hazard and 5.5 kg/cm² for moderate and high hazard at the farthest or top most point.

GUIDELINES FOR INTERNAL STAIRWAYS

- a) Stairways shall be constructed of non-combustible materials throughout. Hollow combustible construction shall not be permitted. The width of the staircase shall not be less than 2.0 Mtrs.
- b) No Gas piping shall be laid down in the stairway.
- c) Internal staircase shall be constructed as a self-contained unit with at least one side adjacent to external walls and shall be completely enclosed.
- d) Internal staircase shall not be arranged around lift shaft unless the later is entirely enclosed by material of fire resistance rating as that for type of construction itself.
- e) The access to main staircase shall be gained through at least half-an-hour fire resisting automatic closing doors placed in the enclosing walls of the staircase. They shall be swing type doors opening in the direction of the escape.



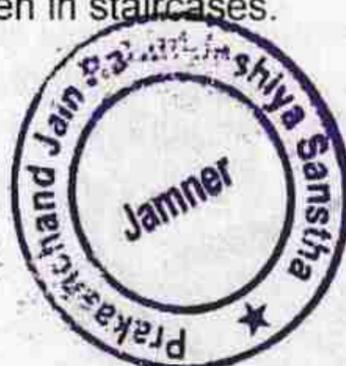
- f) No living space, store or other space, involving fire risk, shall open directly in to staircase.
- g) The external exit door of a staircase enclosure at ground level shall open directly to the open space or should be accessible without passing through any door other than a door provided to form a draught lobby.
- h) The exit signs with arrows indicating the escape routes shall be provided at a height of 2.0 m. from the floor level on the wall and shall painted with fluorescent paint. All exit signs should be flush with the wall and so designed that no mechanical damage to them can result from the removing furniture, material or any other equipment.
- i) Exits shall be so located that it will not be necessary to travel more than 22.5 m. from any point to reach the nearest exit.

FIRE ESCAPE: (ENCLOSED TYPE) SHALL COMPLY THE FOLLOWING: -

1. Exits and staircase guidelines should be followed as per National Building Code-2016.
2. Fire escape constructed of M.S. angels is not permitted.
3. Opening of the Fire Escape Staircase should be from outside.
4. Fire Escape staircase should be enclosed type. These should always be kept in sound operable condition.
5. Exits door shall open outwards, that is away from the room, but shall not obstruct the travel along any exit.
6. Fire Escape Staircase shall be directly connected to the ground.
7. Entrance to the Fire Staircase shall be separate and remote from the internal staircase.
8. Care shall be taken to ensure that no wall opening or window opens on to or close to Fire Escape Stairs.
9. The route to the external staircase shall be free of obstructions at all times.
10. The Fire Escape stairs shall be constructed of non-combustible materials, and any doorway leading to it shall have the required fire resistance.
11. No Staircase, used as a fire escape, shall be inclined at an angel greater than 45° from the horizontal.
12. Fire Staircase shall have straight flight not less than 200 c.m. wide with 20 c.m. treads and risers not more than 19 c.m. The number of risers shall be limited to 15 per flight.
13. Handrails shall be of a height not less than 100 c.m. and not exceeding 120 c.m.

STAIRCASE DESIGN REQUIREMENT:

1. The minimum headroom in a passage under the landing of a staircase and under the staircases shall be 2.2 Mtrs.
2. Access to main staircase shall be through a fire / smoke check door of a minimum 2 hours fire resistance rating.
3. No living space, store or other fire risk shall open directly in to the staircases.
4. The main and external staircases shall be continuous from ground floor to the terrace level.
5. No electrical shafts, A/c ducts or gas pipe etc. shall pass through or open in the staircases. Lifts shall not open in staircases.



Escape route from flat to staircase :

- i) Corridor / Lift Lobby / Staircase at each floor level shall be ventilated to outside air, as shown on the plan.
- ii) Escape routes shall be maintained free from any obstruction at all times.

EXIT REQUIREMENT

1. In building or sections occupied by bedridden patients where the floor area is over 280 m² facilities shall be provided to move patients in hospital beds to the other side of a smoke barrier from any part of such building or section not directly served by approved horizontal exits or exits from the first floor (floor 2) of a building to the outside.
2. All required exits that serve as egress from hospital or infirmary sections shall be not less than 2m in clear width including patient bedroom doors to permit transportations of patients on beds, litters, or mattresses. The minimum width of corridors serving patients bedrooms in building shall be 2400 mm. for detailed information on recommendations for building and facilities for the physically handicapped, reference may be made to good practice.
3. Elevators constitute a desirable supplementary facility, but are not counted as required exits. Patient lifts shall also be provided with enough room for transporting a stretcher trolley.
4. Any area exceeding 500m² shall be divided into compartments by fire resistant walls.
5. Doors in fire resistant walls shall be so installed that these may normally be kept in open position, but will close automatically. Corridor door opening in smoke barriers shall be not less than 2000 mm in width. Provision shall also be made for double swing single/double leaf type door.
6. Exits and other features for penal and mental institutions, and custodial institutions shall be the same as specified for hospitals, in so far as applicable. Reliable means shall be provided to permit the prompt release of inmates from any locked section in case of fire or other emergency.
7. Wherever any inmates are confined in any locked rooms or spaces, adequate guards or other personnel shall be continuously on duty or immediately available to provide for release of inmates or for such other action as may be indicated in case of fire or other emergency.
8. No building constructed in whole or in part of combustible materials shall be used to confine inmates in cells or sleeping quarters, unless automatic sprinkler protection is provided.
9. All building or sections of building in penal and mental institutions used for manufacturing, storage or office purpose shall have exits in accordance with the provisions of the code for those occupancies.

ADDITIONAL REQUIREMENT;

1. No combustible material of any kind shall be stored or used in any building or section thereof used for institutional occupancy, except as necessary to normal occupancy and use of the building.



2. Bare minimum quantities of flammable material such as chloroform, ethyl alcohol, sprit etc. shall be allowed to be stored and handled. The handling of such liquids shall not be permitted by un-authorized persons. Bulk storage of these items, will be governed by relevant rules and safe practices.

FIRE LIFT :

1. To enable fire services personnel to reach the upper floors with the minimum delay, one fire lift per **1200 Sq. Mtrs.** of floor area shall be provided and shall be available for the exclusive use of the fireman in an emergency.
2. The lift shall have a floor area of not less than **1.4 Sq. Mtrs.** It shall have loading capacity of not less than **545 Kg. (8 persons)** with automatic closing doors of minimum **0.8 Mtrs.** width.
3. The electric supply shall be on a separate service from electric supply mains in a building and the cables run in a safe route safe from fire, that is, within the lift shaft. Lights and fans in the elevators having wooden paneling or sheet steel construction shall be operated on 24 Volt supply.
4. Fire fighting lift should be provided with a ceiling hatch for use in case of emergency, so that when the car gets stuck up, it shall be easily open able.
5. In case normal electric supply fails, it shall automatically trip over to alternate supply. Alternatively, the lift shall be so wired that in case of power failure it will come down to the ground level and stand still with door open.
6. The operation of a fire lift is by a simple toggle or two button switch situated in a glass fronted box adjacent to the lift at the entrance level. When the switch is on landing call points should become inoperative and the lift will be on car control only or on a priority device. When the switch is off, the lift will return to normal working.
7. The words "**Fire Lift**" shall be conspicuously displayed in fluorescent paint on the lift landing doors at each floor level. The speed of the fire lift shall be such that it can reach the top floor from ground level within **1 Min.**

LIFT ENCLOSURES : -

1. The walls enclosing lift shafts shall have a fire resistance of not less than **two** hours.
2. Shafts shall have permanent vents at the top not less than 1800 mm (0.2sq.m.) in clear area.
3. Lift motor room shall be preferably be sited at the top of the shaft and shall be separate from lift shafts by the enclosing wall of the shaft or by the floor of the motor room.
4. Landing doors in lift enclosures shall open in the ventilated corridor/lobby & shall have fire resistance of not less than one hour.
5. Exit from the lift lobby shall be through a self-closing smoke top door of half hour fire resistance.
6. The lift machine room shall be separate and no other machinery shall be installed therein.
7. Grounding switch/switches at ground floor level to enable the fire service personnel to ground the lift car/cars in emergency shall be provided.



2. Bare minimum quantities of flammable material such as chloroform, ethyl alcohol, sprit etc. shall be allowed to be stored and handled. The handling of such liquids shall not be permitted by un-authorized persons. Bulk storage of these items, will be governed by relevant rules and safe practices.

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3. Lift motor room shall be preferably be sited at the top of the shaft and shall be separate from lift shafts by the enclosing wall of the shaft or by the floor of the motor room.
4. Landing doors in lift enclosures shall open in the ventilated corridor/lobby & shall have fire resistance of not less than one hour.
5. Exit from the lift lobby shall be through a self-closing smoke top door of half hour fire resistance.
6. The lift machine room shall be separate and no other machinery shall be installed therein.
7. Grounding switch/switches at ground floor level to enable the fire service personnel to ground the lift car/cars in emergency shall be provided.



7. An independent & well-ventilated service room shall be provided on the ground floor with direct access from outside or from the corridor for the purpose of termination of electric supply. The doors provided for the service room shall have fire resistance of not less than two hours.

Electric cable shaft and electric meter room :

- i) Electric cables shall not pass through the staircase walls or shall be taken in concealed manner.
- ii) Inspection door of the shaft if provided shall have two hours of fire resistance.
- iii) Electric meter room shall be provided at the ground floor at the location marked on the plan. It shall be adequately ventilated.
- iv) Electrical shafts shall be sealed at each floor level with non combustible material such as vermiculite concrete.
- v) Electric wiring shall be having copper core having the fire resistance and low smoke hazard cables for the entire building with provision of ELCB / MCB in electrical installation of the building.

Access :-

Two entrance gates each of width not less than 04.50 mtr and height clearance not less than 04.50 mtrs shall be provided.

Courtyards :-

- i) The courtyards on all sides of the building shall be paved suitably to bear the load of fire engines weighing up to 45m. tones and shall be flushed to road level.
- ii) The courtyards shall be in one plane.

CAR PARKING:

- i) Car parking shall be permitted in the designated area.
- ii) Drainage of the car parking area of all the levels shall be laid independent from that of the buildings & it shall be provided with catch pit & fire trapped before connecting the building drainage or Municipal drainage.
- ii) Drainage of the car parking areas at all the levels shall be so laid as to prevent any overflow in the staircase, lift shaft etc.
- iii) The parking area shall not be used for dwelling purpose & repairing / maintenance purpose, at any time. Dwelling use of naked light/flame, repairing /maintenance of vehicles shall be strictly prohibited in the parking area.
- iv) Repairing / servicing of cars, use of naked light shall not be permitted in the car parking areas.
- v) The drive way shall be properly marked & maintained unobstructed

PORTABLE FIRE EXTINGUISHERS :-

- a. Two Dry Chemical Powder (A.B.C.) type fire extinguisher of 4 kgs. Capacity and CO2 Type of Extinguisher of 4.5 kg having I.S.I. certification mark and two buckets filled with dry, clean sand shall be kept in Electric meter Room as well as Lift Machine room.
- b. Adequate Nos. of Dry Chemical Powder (A.B.C.) type fire extinguishers each of 4 Kgs. Capacity having (ISI 682 & 2190) certification mark shall be kept equally distributed in prominent places.



TERRACE DOOR:

- i) The top half portion of the doors shall be provided with louvers.
- ii) The latch- lock shall be installed from the terrace side at the height of not more than 1mtrs.
- iii) The glass front of 6 inch diameter with the breakable glass shall be provided just above the latch lock, so as to open the latch in case of an emergency by breaking the glass.

SIGNAGES :-

Self glowing / fluorescent EXIT signs in green colour shall be provided showing the means of escape for the entire building.

In addition to the above, all provision under the National Building Code of India-2016 shall be strictly adhered, also if any change in activity or Proposed expansion or Subletting of Plot, NOC from this department is essential.

This is a "Provisional No-Objection Certificate". After compliance with above mentioned recommendations / conditions, inspection of the fire prevention & protection systems provided by you will be carried out by this department & after satisfactory performance of the system "Final No-Objection Certificate" will be issued.

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

As per Maharashtra Fire Prevention and Life Safety Measures Act, 2006, Section 25-Annexure-Part III, M/s. Prakashchand Jain Bahudeshiya Sanstha has paid Fire Protection Fund Fees amounting to Rs. 51,580/- (Rs. Fifty One Thousand Five Hundred Eighty Only) vide UTR No. 3233345862746, Dated 11.12.2023.

However, Town Planning is requested to verify the total built up area and inform this Department for the purpose of levying additional Capitation fee.

Santosh
Shridhar
Warick

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Santosh Shridhar
Warick
Date: 2023.12.14
22:15:57 +05'30'

Hatyal
Kiran

(S S Warick)
Director

Maharashtra Fire Services

Copy to The Asst. Director, Town Planning, Jalgaon.



MS

Mr. Manojkumar P. Jain
Secretary
Prakashchand Jain Bahudeshiya sanstha
Eajrangpura Road, Jamner, Tal. Jamner
Dist. Jalgaon, Pin- 424206

