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Engineering Works Pvt.Ltd.

Mfg., of Fire Extinguishers & Fire Fighting Equipment Govt. Regd. Contractor

14, Pranav Plaza, Behind United English School, Shivaji Nagar, Mumbai Goa Highway,
Chiplun, Dist. Ratnagiri - 415 605. Tel.: (02355) 253161

Factory : F-2/7, Kherdi Industrial Estate, Kherdi, Chiplun.

Certificate

To whom So Ever It May Concern

*This is to certify that our technician has inspected
and refilled the fire fighting equipments maintained at*

M/s. **Umme Khadija English**

MEDIUM SCHOOL, VISAPUR

*Fire equipments are in good condition and
instantly useable if any emergency arises. This Certificate is
valid up to **28th August 2025** from this date.*

Date : **29th August 2024**

For
SIDVEN ENGINEERING WORKS PVT. LTD.

(Service Department)





MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION
(Government of Maharashtra Undertaking)

No. MFS CASE/MIDC/ FSLP/ Prov. Noc/305/2023
Tel No. 02356-272900
Fax No. 02356-273000

Office of the Fire Station Officer
MIDC Fire Station Lote-Parshuram
Plot No.P-33, MIDC, Indl.Area Lote-
Parshuram, Tal.Khed, Dist.Ratnagiri
Date:- 07/06/2023

To

M/s. UMME KHADIJA ENGLISH MEDIUM SCHOOL,
Director Mr. A. Karim Daud Gaibee,
Survey No. 38/2/B,
At- Visapur, Tal. Dapoli,
Dist. Ratnagiri,

Sub: NOC Stipulating Fire Protection and Fire Fighting Requirements for your proposed construction of Education Building At-village-Visapur, Tal- Dapoli, Dist-Ratnagiri.

Ref: 1. Application No. MFS CASE/MIDC/FSLP/186, dated 24.05.2023
2. Payment receipt, UTR No. BKIDY23156700734,
Amt. 30,000/-, Dt. 05/06/2023

Dear Sir,

This has reference to the above. This office is issuing No Objection for **(Provisional)** Fire Approval for following proposed construction of Educational Building A (Gr. Floor+2 Floors) & Building B, C, D & E with Ground Floor Structure.

The Total Proposed built up area is 1757.76 Sq. Mtrs. (Incl. Area Free of FSI) of Plot Area 7800.00 Sq. M. The said Educational Building consists of Building A (Gr. Floor+2 Floors) & Building B, C, D & E with Ground Floor Structure, the Height of Topmost Building is 10.78 Mtrs.

The detail of the proposed Construction is as under.

Sr. No.	Floors	Built up Area in Sq. M.	Height in Mtrs
1.	Building -A :- Ground Floor:- Classrooms - 4, Staffs RM, Office etc. First Floor:- Classroom-6 etc. Second Floor :- Halls , Library & Laboratory etc.	1128.60	10.78
2.	Building - B :- Ground Floor:- Classrooms -7 , Rooms-1, Store-1, Passage-3.00 mtrs & Stair-1.5 mtrs	464.51	4.11
3.	Building - C :- Kinder Garton Ground Floor :- Class Room-3, etc, Passage- 1.2 Mtrs etc.	118.95	3.65
4.	Building - D :- Ground Floor :- Girls Toilets	33.86	3.32
	Building - E:- Ground Floor :- Boys Toilets	11.84	3.32
	TOTAL BUILT-UP AREA	1757.76	

The site abuts on 12.00 Mtrs wide Khed-Mandangad Road on West Side & 9 Mtrs Internal Road on West Side of the said Plot.

The open spaces around the building are as follows: As per Drawings submitted by an Architect

Direction	Building line to plot boundary in Mtrs
West side	6.16 to 15.73 mtrs
North Side	6.00 mtrs
East Side	4.36 to 6.00 mtrs
South Side	6.16 to 15.73 mtrs

In view of the above, as far as this Department is concerned, there would be no objection for construction of Education Building A, B, C, D & E with respective floor as mentioned above. Total topmost height of building is 10.78 Mtrs from general ground level to Terrace Level of this Educational Building. The building A is having 02 Nos of Stair cases with 1.50 Mtrs wide flight while Building B is having single staircase of 1.5 Mtrs wide flight.

Ratnagiri
07/06/2023



Subject to satisfactory compliance of the following requirements as per details shown in the enclosed plan duly signed by competent authority of the State Government.

The Occupant load should not exceed in any case as prescribed in Table No. -3 of NBC-2016 Part-IV

This N.O.C. is valid subject to fulfillment of the following conditions: -
Provisions of Maharashtra Fire Prevention and Life Safety Measures Act, 2006

1. Plan of Proposed Constructions (adhering to the Unified Development Control & Promotion Regulation, 2020 (UDCPR-2020 Rules) & National Building Code-2016 where necessary) shall be approved by The Town planning Authority (TP) / Urban local Bodies or Special Planning Authority.
2. 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.
3. 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) 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.
 - B) The names of the License Agencies approved by Directorate of Maharashtra fire services is available in our website www.mahafireservice.gov.in
4. 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.
5. The plans of the building should be approved by The Concern Competent Authority.
6. 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.**
7. Proper roads in the premises should be provided for easy mobility of the Fire Brigade Appliance & the roads should be capable to hold weight of fire appliances i.e. **45 tons. The width of the internal road shall not be less than 6.0 Mtrs with turning circle of 9.0 Mtrs for easy mobility of the fire engine.**
8. All portable fire fighting equipments installed at various locations as per local hazard such as Co2-DCP, Foam, Fire buckets & it must be strictly confirming to relevant IS specification.
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 complex" should be displayed in security cabin & at other strategic locations.
11. It shall be ensured that security staff & every employee of the complex are trained in handling firefighting equipment & fire fighting.
12. Cautionary boards such as "DANGER", "NO SMOKING", "EXIT", "FIRE ESCAPE", "EXTINGUISHER", etc. should be displayed on the strategic location to guide the occupants in case of emergency. The signs should be of florescent type and should glow in darkness.
13. Dining Hall use for only serving food, cooking process not allowed in dining hall.
14. In future if the said firm intends to go for any expansion, alteration, modification of any building, an approval of this department must be obtained before commencing proposed construction.
15. The glow signs like "Staircase", "Extinguishers", "Fire Escape", "Hydrant Points", "Manual Call Points", "Exit", & "Lift" shall be installed on strategic locations in all common areas of the building like passages, Corridors etc.
16. Fire Evacuation orders Exit map shall be provided in every floor & in lobbies of the buildings.
17. In future if the Organization intends to carry out any expansion of the building, an approval of this department must be obtained before commencing proposed construction.
18. All the requirements mentioned in Gas Cylinder Rules, must be strictly followed.

(Signature)
07/10/2015



19. The final NOC for the above building will be issued after satisfactory installation of fire Prevention & Fire Protection arrangement. This building should not be occupied without obtaining Final NOC from this Dept, failing which you will be solely responsible for the consequences, in any.

20. Standard Specifications and Regulations to be followed :-

- A) UDCPR-2020 & Part 3 & 4 of National Building Code:2016
- B) IS:3844 – for installation and maintenance of internal hydrant system & hose reel hose on premises.
- C) IS:2189 – for selection, installation and maintenance of automatic fire detection and alarm system.
- D) IS: 15683 – for selection, installation and maintenance of portable first aid fire extinguishers.
- E) IS: 9583- Emergency Lighting units
- F) IS:12456 – code of practise for fire protection of electronic data processing installation
- G) IS:4963 – Recommendations for buildings and facilities for physically handicapped
- H) IS3614 (part)- specification for fire check doors.

21. 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.	Portable Fire Extinguisher should be installed confirming to IS 15683 & other I.S. codes
2.	Hose Reel	Required at prominent places & all floors & Staircases & Building A, B, C, D & E	At Various strategic Locations.	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
3.	Wet Riser/ Down Comer	Required	In all Staircases	Required to provide in the Staircase and Fire Escape Staircase. Landing of Valve should be installed confirming to IS:5290.
5.	Terrace Level Tank	Required 15,000 Ltrs.		On each Terrace
6.	Fire Pumps	1 No. 450 lpm electric driven Booster pump		Fire Fighting pumps shall be well maintained. Fire pumps shall be centrifugal pumps only. Booster pump should be provided on each terrace.
7.	Automatic Sprinkler system	Required to be provided at the Laboratory & Canteen Area (If false ceiling voids exceeding 800 mm of height above false ceiling sprinkler should be provided)		Guidelines are given in IS 15105 Design and installation of Fixed Automatic sprinkler fire Extinguishing system.
8.	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.
9.	Fire Brigade Connection –For static water tank & for Hydrant system		Required at the main gate & on the Fire water tank	

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Exit Requirement:

1. An exit may be doorway, corridor, Passageway(s) to an internal staircase, or external staircase, or to a verandah or terrace(s), which have access to the street, or to the roof of a building or a refuge area. An exit may also include a horizontal exit landing to an adjoining building at the same level.
2. Every exit, exit access or exit discharge shall be continuously maintained free of all obstructions or impediments to full use in the case of fire or other emergency
3. Exits shall be clearly visible and the route to reach the exits shall be clearly marked and signs posted to guide the occupants of the floor concerned. Signs shall be illuminated and wired to an independent electric circuit on an alternative source of supply.
4. To prevent spread of fire and smoke, fire doors with 2 hours fire resistance shall be provided at appropriate places along the escape routes and particularly at the entrance to lift lobby and stair well where a 'funnel or flue effect' may be created inducing an upward spread of fire.
5. All exits shall provide continuous means of egress to the exterior of a building or to an exterior open spaces leading to the street.
6. Exits shall be so arranged that they may be reached without passing through another occupied unit.

GUIDELINES FOR INTERNAL STAIRWAYS as per NBC 2016:

- a) Stairways shall be constructed of non-combustible materials throughout. Hollow combustible construction shall not be permitted. Width of Staircase should be 1.50 M.
- 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 1.5 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 30 Mtrs. from any point to reach the nearest exit along the line of travel.

STAIRCASE AND CORRIDOR LIGHTINGS:

1. The staircase and corridor lighting shall be on separate service and shall be independently connected so as it could be operated by one switch installation on the ground floor easily accessible to fire fighting staff at any time irrespective of the position of the individual control of the light points, if any.
2. Staircase and corridor lighting shall also be connected to alternate source of supply.
3. Suitable arrangements shall be made by installing double throw switches to ensure that the lighting installed in the staircase and the corridor do not get connected to the sources of supply simultaneously. Double throw switch shall be installed in the service room for terminating the stand by supply.
4. Emergency lights shall be provided in the staircase/corridor.
5. Passageway should be provided as per the guidelines given in National Building Code- 2005.

Staircase Design requirement:

1. The minimum headroom in a passage under the landing of a staircase and under the staircases shall be 1.50 Mtrs.
2. Access to main staircase shall be through a fire / smoke check door of a minimum 2 hours fire resistance rating.

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07/08/23



No living space, store or other fire risk shall open directly in to the staircases.
The main and external staircases shall be continuous from ground floor to the terrace level.

No electrical shafts, A/c ducts or gas pipe etc. shall pass through or open in the staircases. Lifts shall not open in staircases.

All the staircases shall be provided with mechanical Pressurization devices, which will inject the air in to staircase, lobbies or corridors to raise their pressure slightly above the pressure in adjacent parts of the building so the entry of toxic gases or smoke in to the escape routes is prevented.

The width of the staircase shall not be less than 1.50 Mtrs. All the staircases in the building shall be provided with Pressurization devices. In this method air is injected to the staircases, lobbies, corridors, to raise their pressure slightly above the pressure in the adjacent part of the building. This will prevent ingress of smoke or toxic gases into the escape routes. The Pressurization devices shall be integrated with the smoke & heat detection system. The device should operate automatically after the smoke, heat, etc. is detected by the detector.

6. All the staircase doors on every floor shall be provided with two hours fire resistive doors having panic bars at both the sides.

ELECTRICAL SERVICES:

1. The electric distribution cables/wiring shall be laid in separate duct. The duct shall be sealed at every alternate floor with non-combustible materials having same fire resistance as that of the duct.
2. Water mains, telephone lines, intercom lines, gas pipes or any other service lines shall not be laid in the duct of electric cables.
3. Separate circuits for water pumps, lifts, staircase & corridor lighting 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.
4. The inspection panel doors and any other opening in the shaft shall be provided with air tight doors having fire resistance of not less than 2 hrs.
5. Medium & low voltage wiring running in shaft and within fall ceiling shall run in metal conduit.
6. 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.

GUIDELINES FOR Kitchen AREA (LPG Storage);

- If L.P.G. is used for cooking purpose in canteen the L.P.G. pipelines & fittings & accessories used shall be strictly conforming to IS: 6044 Part-I. The L.P.G. pipeline & related installation shall be done by reputed and authorized agency. The agency shall issue a certificate that the work is carried out as per IS: 6044 Part-I.
- The L.P.G. storage area shall be provided with a separate shed painted in "RED" colour, "Danger" "No-Smoking" signs shall be painted on the door of L.P.G. shed. The shed should be always kept in lock and key & the key of the L.P.G. shed shall be kept with responsible person of the company. The L.P.G. cylinders bank must be installed on ground floor only.
- Minimum Two Exits should be provided diagonally opposite to each other shall be provided to approach kitchen. 2 Nos. of DCP Fire Extinguishers of 9 Kgs each should be provided near LPG Battery.

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

1. Travel Distance should be maintained 30.00 M as per the guidelines given in National Building Code-2016
2. Fire escape constructed of M.S. angles, wood or glass is not permitted 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.

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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 angle greater than 45° from the horizontal.
12. **The width of the staircase & the other detailed provision for exits in accordance with National building code - 2016**
13. Fire Staircase shall have straight flight not less than 150 cms. wide for Commercial Building & not less than 200 cm for Mall & Multiplex Building with 20 c.m. treads and risers not more than 19cms. The number of risers shall be limited to 15 per flight.
14. Handrails shall be of a height not less than 100cms and not exceeding 120cms

AIR-CONDITIONING:

1. Escape routes like staircases, common corridors, lift lobbies etc. shall not be used as return air passage.
2. The ducting shall be constructed for substantial gauge metal in accordance with IS: 655-1963 (Revised).
3. Wherever the ducts pass through firewalls or floors, the opening around the ducts shall be sealed with fire resisting materials such as asbestos rope, vermiculite concrete, glass wool etc.
4. As far as possible, metallic ducts shall be used even for the return air instead of space above false ceiling.
5. The materials used for insulating the duct system (inside or outside) shall be non-combustible material such as glass wool etc.
6. **The fire dampers shall be capable of operating manually.**
7. **Air ducts serving main floor areas corridors etc. shall not pass through the stair well.**

AIR-CONDITIONING SHALL CONFORM TO THE FOLLOWING:

- a) Escape routes like staircases, common corridors, lift lobbies, etc. shall not be used as return air passage.
- b) The ducting shall be constructed of substantial gauge metal in accordance with good practice {4 31}.
- c) Wherever the ducts pass through fire walls or floors, the opening around the ducts shall be sealed with materials having fire resistance rating of the compartment.
- d) Where duct crosses a compartment which is fire rated, the ducts shall be fire rated for same fire rating. Further depending on services passing around the duct work, which may get affected in case of fire temperature rising, the ducts shall be insulated.
- e) As far as possible, metallic ducts shall be used even for the return air instead of space above the false ceiling.
- f) Where plenum is used for return air passage, ceiling and its fixtures shall be of non-combustible material.
- g) The material used for insulating the duct system (inside or outside) shall be of non-combustible materials. Glass wool shall not be wrapped or secured by any material of combustible nature.
- h) Area more than $750m^2$ on individual floor shall be segregated by a fire wall and automatic fire dampers for isolation shall be provided {see (j)}.
- i) Air ducts serving main floor areas, corridors, etc. shall not pass through the staircase enclosure.
- j) The air-handling units shall be separate for each floor and air ducts for every floor shall be separated and in no way inter-connected with the ducting of any other floor.
- k) If the air-handling unit serves more than one floor, the recommendations given above shall be complied with in addition to the conditions given below:
 1. Proper arrangements by way of automatic fire dampers working on smoke detector/or fusible link for isolating all ducting at every floor from the main riser shall be made.
 2. When the automatic fire alarm operates, the respective air-handling units of the air conditioning system shall automatically be switched off.

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.

As per Maharashtra Fire Prevention and Life safety Measures Act, 2006, Section 25-Annexure-part III, M/s Umme Khadija English Medium School, Director Mr. A. Karim Daud Gaibee, has paid Fire Protection Fund Fees amounting to Rs. 30,000/- (Rs. Thirty Thousand only) Vide UTR No. BKIDY23156700734, Dt. 05/06/2023.

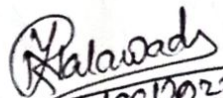
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07/06/2023

This is a "Provisional No-Objection Certificate" which shall be treated valid for the period of one year from the date of issue. 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.

Thanking you.

Yours faithfully


07/06/2023
(Y. R. Nalawade)
Fire Station Officer
MIDC, Lote-Parshuram

Copy F.w.c's to:

- The Director, MFS, Mumbai for information Please.
- The Asst. Director, MFS, Mumbai for information Please.
- The Asst. Director, Town planning Authority, Ratnagiri.