Fire NOC

Kalyan Dombivli Municipal Corporation

Fire & Emergency Service

Phone: 2310155 / 2315101 / 2365101 / 2470357 / 2400447

FIRE/HQ/KDMC/OW/2023/E-219 Date :27/06/2023

FIRE & EMERGENCY SERVICES

To,
The Assistant Director Town Planner,
Kalyan Dombivli Municipal Corporation,
KALYAN.

Subject: Grant Of provisional NOC stipulating Fire Protection & Fire Fighting requirements to construct 1 commercial cum residential Building, Wing A & B, Gr/St + 7th Floor on S. No. 18, H. No. 4, Mouje- Bhal, Tal- Ambernath, Dist. Thane.

Ref.: 1] Application from Architect- Madan Gadgil
2] P.O.A. Holder: M/s. Mali Infra through Mr. Jethalal Mali
3] Site Visit:22/06/2023

An Architect proposed plan 1 commercial cum residential Building, Wing A & B, Gr/St + 7th Floor on S. No. 18, H. No. 4, Mouje- Bhal, Tal- Ambernath, Tal- Kalyan, Dist. Thane.

Building Wing A & B	Total/Gross BUA Sq.mt	Height	Occupancy Type	Capitation Fees
St /Gr + 7th Floors	160.29	23.10	Commercial	32,058/-
	3382.64		Residential	2,25,139/-

In view of above this department has no objection to allow permission to construct a building as per CC will be given by Town Planning Department subject to satisfactory compliance of UDCPR Rules & following Fire Protection conditions.

ACCESS:

1) An entry and exit should be clear width as per UDCPR Rule & 5 meters clear height.

2) Adequate Open Space around the building from any projections of the building should be kept open and encroachments/obstructions free for easy mobility of fire appliances & same shall be capable of taking the load of fire engines up to 45 tons (Garden, Parking, Pump Room or any Construction is not permitted in open space).

STAIRCASE:

1) Width of the staircase shall not be less than 1.2 mtrs. for residential building & separate 1.5 mtrs. staircase for commercial floor/ building & Basement if any.
2) Internal Stairs shall be constructed as a self-contained unit with an external wall of the building constituting at least one of its sides and shall be completely enclosed.
3) Permanent vent at the top equal to 5% of the cross section area of the staircase shall be provided.
4) Open able sashes or RCC grills with clear opening of not less than 0.5 sq.ft. Per landing on the external wall of the staircase shall be provided.
5) Air conditioning duct or any other ducts shall not pass through the staircase enclosure.
6) Corridor lift lobby at each floor level shall be ventilated directly to the outside Air.

ELECTRICAL SERVICE / ELECTRICAL ROOMS:

1) The electric distribution cables/ wiring shall be laid in a separate duct. The duct shall be sealed at every floor with non-combustible 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;
2) Electrical cables shaft exclusively used for electrical cables and should not pass in the staircase enclosure.
3) Separate circuits for firefighting pumps, lifts, 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. Such circuits shall be protected at origin by an automatic circuit breaker with its no-volt coil removed. Master switches controlling essential service circuits shall be clearly labeled;
4) Suitable circuit breakers shall be provided at the appropriate points.
5) In electrical rooms no any other storage except electrical meters shall be allowed.
6) **A stand-by electric generator/alternate power supply shall be installed to supply power to staircase and corridor lighting circuits, fire lifts, the stand-by fire pump, in case of failure of normal electric supply.**

Certificate of the electric contractor regarding this, should be submitted to this office at the time of the final NOC.

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FIRE & EMERGENCY SERVICES
KALYAN

LIFT

1) Landing of Lift for Commercial/Office floor area should not be given in Staircase Mid- Landing. Landing should be given at floor level only.
2) Walls of lift enclosures shall have a fire rating of 2 hrs; lifts shafts shall have a vent at the top of area not less than 0/2 m^2.
3) Lift motor room shall be located preferably on top of the shaft and separated from the shaft by the floor of the room.
4) Landing doors in lift enclosures shall have a fire resistance of not less than 1 hrs.
5) Lift car door shall have a fire resistance rating of half an hour.
6) Collapsible gates shall not be permitted for lifts and shall have solid doors with fire resistance of at least 1 hrs.
7) Grounding switches, at ground floor level, shall be provided on all the lifts to enable the fire service to ground the lifts.
8) Suitable arrangements such as providing slope in the floor of lift lobby shall be made to prevent water used during fire fighting, etc. at any landing from entering the lift shafts.
9) A sign shall be posted and maintained on every floor at or near the lift indicating that in case of fire, occupants shall use the stairs only.
10) Wall enclosing lift shaft shall have a fire resistance of not less than two hrs.
11) Shaft shall have permanent vent of not less than 0.2 sq.mt. In clear area immediately under the machine room.

Means of entry: (Suggestions for PWD and Lift Contractor)

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2 Fire lifts shown for commercial cum residential building Wing A & B The lifts of the building are of high speed in Nature.

Automatic rescue device should be provided for all lifts so that in case of power failure, lift cannot be stuck. & also proper power back up should be provided for lift.

Refuge Area:

Refuge areas are should be provided as per UDCPR-2020

ACTIVE FIRE PROTECTION REQUIRED FOR RESIDENTIAL BUILDING AS PER REQUIREMENT

Overhead (Terrace) Water Storage Tank:

Separately Overhead (terrace) water storage tank of **25000 Ltrs.** Capacity for the building Wing A & B shall be provided at terrace level, **exclusively for firefighting** purpose only. The design & layout of this tank shall be got approved from concerned department prior to its erection. The tank shall be connected to wet riser through a booster pump through N.R. Valve & Gate Valve.

Booster Pump :

a. Booster pump of **Kirloskar** or **Crompton or Lubi** make of capacity **900 L/Min.** giving a pressure of not less than **3.5 Kg/cm²** at top most floor with ISI mark Electrical starter at ground floor as on each terrace level for wing A & B (Booster pump should be In Auto mode)
b. Electric supply (normal) to these pumps shall be on independent circuits.

Fire Duct:
Fire duct shall be provided at each floor level of size - **Height - 1.4 M, width – 1 M, depth - 1 M.**

Down Comer:
One Down Comer of internal diameter of **100 mm,** G.I. 'C' Class ISI Mark pipe preferably **Tata, Zenith, Jindal** make from ground level up to terrace level for Wing A & B water tank, shall be provided in the duct adjoining the staircase with hydrant for outlet & hose reel on each floor in such a way as not to reduce the width of corridor. Pressure reducing discs or ore fiches shall be provided at lower level so as not to exceed pressure of 5.5 Kg/cm². A fire service inlet on the external face of the building near the front of the building shall be provided to connect the mobile pump of fire service to the wet riser. Non return valve, Air valve, main valve & other subsequent valve, measures should be taken.

Hydrant Valve/ Landing valves:
One fire Hydrant valves/ Landing valves of 63 mm dia ISI mark shall be provided for Wing A & B on each floor .

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HOSE REEL HOSE:
Hose Reel hose with jet & spray multipurpose SS 304/ Brass Nozzle confirming to IS: 884: 1985 not less than **30 Meters** shall be provided on each floor & each riser & car parking at commercial cum residential building Wing A & B. **(Fiber/Plastic Nozzle not allowed)**

Hose Boxes:
Hose boxes for install in each residential floor & 2 Hose Box on each commercial area including ground floor to be provided for Wing A & B. Each box shall be equipped with 1 x 15 meter length of 63 mm rubber line hose along with standard branch pipe. It shall confirm to latest IS code 636 & 903 respectively.

Fire Service Inlet:
Two way Fire service inlet with hydrant valve outlet should be provided to building Wing A & B at ground level & it should be accessible for fire service personnel for easy operation. (All buildings/wings wet riser/Down comer should connected to each other and Siemens connection shall be on building front side.)

AUTOMATIC FIRE SPRINKLER SYSTEM:

Install automatic fire sprinkler system in commercial cum residential building Wing A & B in vehicles parking area, shop area, office area, commercial area, as per Confirming to IS.

FIRE ALARM WITH P.A. SYSTEM:

Fire Alarm Panel with P.A. Facility. MCP to be Glass break type. Hooter should be of good sound. The MCP to be Manual operate Call point. All the MCP cum Hooter to be tested from panel itself for ease of Maintenance and testing. The Hooter should have siren as well as voice evacuation message in Hindi and English. The MCP & Hooter to be provided on each floor near staircase of all buildings.

The layout of Fire Alarm System shall be in accordance with IS specification and it should get approved from this department before installation. (MCP should not be concealed).

DETECTION SYSTEM:

Automatic addressable Smoke/Heat detectors shall be installed in meter room, D.G. room, Transformer room, electric duct, shop area, office area, commercial area & where-ever fall-ceiling void is more than 800 mm above & below of ceiling detector should be provided. Design of this system shall be as per latest IS 2189.

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SMOKE CONTROL SYSTEM:

Smoke exhaust and pressurization of areas above ground level as per NBC 2016 clause no. 4.6.1.

GAS LEAK DETECTOR SYSTEM

It is advised it install Automatic addressable Gas Leak Detector System in each flat kitchen area. Design of this system shall be as per latest IS norms. This system should be preferable for more safety purpose.

FIRE EXTINGUISHERS FOR BUILDING:

ISI marked Portable fire extinguishers should be provided at:

1) Lift machine Rooms & Electrical Meter Rooms (Co2 type).
2) ABC Type One on every floor.
3) Commercial area (if any) one in every unit on all floors including ground and if any suggestions by this Department at the time of inspection.

General Requirements and Conditions for the fire and life safety of the buildings :

1) Inflammable / Explosive storages are prohibited in the basement or in building.
2) All materials to be used of ISI make.
3) After completion of the building civil work prior Approval of undersigned should be taken before commencement of fire Fighting Work and list of material.
4) The entire system must be painted with post box RED in color.
5) If the documents attached with this proposal are illegal or misguided, the NOC will be considered as cancelled and overall responsibility will be held by the applicant/Land owner / developer for any consequence.
6) All the fire fighting equipments shall be well maintained and should be easily accessible in case of emergency.
7) It shall be ensured that security staffs of the building are trained in handling fire fighting equipments & fire fighting.
8) Cautionary boards such as **"DANGER", "NO SMOKING", "EXIT", "FIRE ESCAPE", "EXTINGUISHER", "HYDRANT", "MANUAL CALL POINT"** 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.
9) The Fire Evacuation Drill should be planed & instruction should be given to the staff minimum **four times in a year** and drill should be carried out twice in a year.
10) Interconnectivity between fire water tank & domestic water tank should be provided so that during emergency the stored water in domestic water tank can be utilized for fire fighting.
11) All the fire fighting systems drawing / layout should be approved from the Chief Fie Officer, KDMC, before starting any work.
12) In case of emergency, the alternate power supply should be provided for the Fire Pumps, Fire Lifts etc. **The Certificate from electric engineer regarding this should be provided at the time of Final NOC.**
13) **Fire fighting work must be carried out by Licensing Agency authorized by Director of Maharashtra Fire Services only.**
14) **Care & maintenance contract should be made with Licensed Agency to keep the system in good and efficient condition and Hamipatra of the same should be given at the time of final NOC.**
15) The provision of Ring hydrant/Court yard hydrant system should be provided to entire complex. The distance between two hydrants should not be more than 30 Mtrs.
16) As per the UDCPR Rules requirement all the marginal open spaces around the building should be kept open and obstruction free for easy mobility of fire engines.
17) Telephone numbers of **"Responsible persons of the office", "Fire Brigade", "Hospital" "Police", "Doctors"**, should be displayed on the board. This board should be displayed on prominent place. Preferably at the Fire Control Room, security office and in Reception area.
18) All other provisions of UDCPR RULE & National Building Code of India-2016 & Maharashtra Fire Prevention & Life Safety measures Act, 2006 should be strictly adhered.
19) The plans of the proposed building should be approved by the competent authority of Kalyan Dombivali Municipal Corporation.

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20) Well equipped fire control room shall be provided on the ground Floor of the building & A qualified Fire Officer from National Fire Service College, Nagpur shall be employed to maintain all fire prevention & protection arrangements provided to Various buildings

21) The glassing and façade other Glasses should have at least one hour fire resistance and should be UL approved and in accordance with NFPA requirements.

22) All main doors of flat(shop/office) as per IS 3614 & all internal doors and it's material Two hours fire resistance type and it should not give toxic fumes and smoke in case involved in fire

23) The glass faced should be protected with coating film so that in case of breaking of glass the glass can remain in its place for some hours before replacement. This will reduce the risk of injuries to occupants and fire & rescue personal. In the event of blast the shock wave created which created the damage to glass faced the use of film will help to reduce the damages due to glass Breaking.

Considering this situation above fire prevention & fire protection majors are recommended in the proposed buildings up to height 24 mtrs. only. If Architect/Developer makes any changes in height, area or location the above fire preventive majors, Refuge Area, Staircase Location, Side margin etc. will change. And according to that the revised Provisional NOC will be issued.

This is a "Provisional No Objection Certificate". After providing the above fire prevention and fire protection system and compliance of above recommendations the inspection of the fire prevention and fire protection arrangements will be carried out and after satisfactory inspection "Final No Objection Certificate" will be issued to your building for obtaining final occupancy certificate from Kalyan Dombivli Municipal Corporation.

This provisional NOC conditions are applicable for one year from the date of NOC. The undersigned reserves right to amend any additional recommendations deemed fit during the stage wise inspection due to the statutory provisions amended from time to time and in the interest of the protection of the subject mention building.

Please contacts authorities when & where required for these purpose.

If any additional requirement are suggested by fire department Party have also agree to comply the same.

Capitation Fee Rs. 2,57,197/- paid by Receipt No.12034 Dt. 26/06/2023

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CHIEF FIRE OFFICER
Fire & Emergency Services
KALYAN DOMBIVLI MUNICIPAL CORPORATION

Copy to :- Architect/Developer.

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