



# VASAI VIRAR CITY MUNICIPAL CORPORATION FIRE & EMERGENCY DEPARTMENT

Tel. No.: 0250-2525110,2464811,9822321684,7775042200,8975360101,8888864283,8888864275

VVCMC/FIRE/HQ/203/2022-23

DATE:05/05/2022

To,  
The Deputy Director of Town Planning,  
Vasai Virar City Municipal Corporation,  
Dist.-Palghar.



Sub:-Grant of Revised "Provisional No Objection Certificate" for Proposed Residential Cum Commercial Building located on Land Bearing S.No.63/8, S.No.64/4, S.No.64/5A, S.No.64/6, S.No.64/7, S.No.63/7 & S.No.64/3 - Old, S.No.63/6/1, 63/7/1, 63/7/2, 63/8/1, 63/8/2, S.No.64/3/1, 64/3/2, 64/4/1, 64/4/2, 64/5A/1, 64/5A/2, 64/6/1, 64/6/2, 64/7/1, 64/7/2 - New of Village: Chulne, Tal: Vasai, Dist: Palghar

- Ref:- 1) A Letter from Deputy Director Town Planning No. V.V.C.M.C/TP/1707/2021-22, Dated:18/02/2022 (VP- 5806 & 5819)  
2) An Application received from M/s- En Con Project Consultants, Dated:14/02/2022  
3) An Application received from Developer M/s- Shree Varad Builders & Developers LLP, Dated:14/02/2022  
4) Gross built up area certificate received from M/s- En Con Project Consultants, Dated:14/02/2022  
5) CC issued by VVCMC/TP/CC/VP-5806 & 5819/129/2020-21, 10/12/2020  
6) This office Provisional Noc issued by VVCMC/FIRE/HQ/2284/2019-20, Dated:24/02/2020  
7) Site Photos Dated:18/04/2022

This is a proposal for construction of High rise Residential cum Commercial Building having Two level Basement + Ground + 1 Podium + E Floor level + 18 upper floors with a total height 69.15mtrs. From general ground level to terrace level.

**Basement** is below the building line as well as extends beyond the building line. It is proposed for Car Parking. Basement will be compartmented with fire curtains in such a way that, each compartment does not exceeds 1125sq.mtrs. Natural ventilation to the basement is provided through cutouts.

This office all ready given Provisional No Objection Certificate No. VVCMC/FIRE/HQ/2284/2019-20, Dated:24/02/2020 and now the Architect has again applied of Revised Provisional Fire Noc.

After Complying these recommendations this department will issue a Final No Objection Certificate for the purpose of occupational certificate.

Use of various floors is as follows:-

## RESIDENTIAL CUM COMMERCIAL BUILDING

Sr. No	Bldg	Floor	Area sq.mtr	Height mtr
1	Resi Cum Comm Bldg	2 <sup>nd</sup> Basement	2021.20	-8.40
2		1 <sup>st</sup> Basement	1946.86	-4.20
3		Ground / Stilt Floor / Shopline	1125.40	0.30
4		1st Floor (Podium)	2081.60	4.50
7		E-Level Floor	985.09	8.70
8		1 <sup>st</sup> Floor	852.01	13.35
9		2 <sup>nd</sup> Floor	852.01	16.45
10		3 <sup>rd</sup> Floor	852.01	19.55
11		4 <sup>th</sup> Floor (Refuge Area)	851.61	22.65
12		5 <sup>th</sup> Floor	852.01	25.75
13		6 <sup>th</sup> Floor	852.01	28.85
14		7 <sup>th</sup> Floor	852.01	31.95

15		8 <sup>th</sup> Floor	852.01	35.05
16		9 <sup>th</sup> Floor (Refuge Area)	851.61	38.15
17		10 <sup>th</sup> Floor	852.01	41.25
18		11 <sup>th</sup> Floor	852.01	44.35
19		12 <sup>th</sup> Floor	852.01	47.45
20		13 <sup>th</sup> Floor	852.01	50.55
21		14 <sup>th</sup> Floor(Refuge Area)	851.61	53.65
22		15 <sup>th</sup> Floor	852.01	56.75
23		16 <sup>th</sup> Floor	852.01	59.85
24		17 <sup>th</sup> Floor	852.01	62.95
25		18 <sup>th</sup> Floor	852.01	66.05
26		<b>Total</b>	<b>23495.13</b>	<b>69.15</b>

**OPEN SPACE:**

The site abuts on 30.00mtrs & 20.00mtrs wide D.P. Road on North side & 9.00mtrs wide Existing Road on South side. as shown on the plan.

**The side open spaces around the building are as under.**

Sides	From Building Line to Plot Boundary
North	7.50mtrs + 30.00mtrs & 20.00mtrs D.P. Road
South	7.50mtrs.
West	7.50mtrs
East	7.50mtrs

**STAIRCASE & LIFTS:**

**THE DETAILS OF STAIRCASE:**

Staircase description	Type of staircase	Width of staircase	Nos. of staircase
Leading from Basement to Terrace level	Open	2.00mtrs.	02 Nos.

The proposed staircases are externally located & adequately ventilated to outside air. Staircase leading to basement having smoke check lobby at basement and staircase leading from basement is segregated at ground floor and then diverted to upper floor, as shown on plans.

**THE DETAILS OF LIFTS:**

Lifts Type	Profile	Nos. of lifts
Passenger lift	Leading from Basement floor to 18 <sup>th</sup> floor.	06 Nos.

One of the lift from lift bank shall be converted into fire lift as per norms The lift lobby and common corridors at each floor level is adequately ventilated to outside air, as shown in the plan.

Refuge area is provided Building at 4<sup>th</sup>, 9<sup>th</sup> & 14<sup>th</sup> floor as follows.

Location of refuge area	Height from ground level (Mtr)	Provided refuge area (Sq.mtrs)
4 <sup>th</sup> Floor	22.65	98.73
9 <sup>th</sup> Floor	38.15	98.73
14 <sup>th</sup> Floor	53.65	98.73

In addition to this, terrace floor above 18<sup>th</sup> floor will be treated as Refuge Area.

The proposal has been considered favorably taking into consideration the following:-

- i) The Architect has also been directed to provide alternate source of power supply for fire-fighting systems from a D.G. set.
- ii) The Architect has also been directed to provide Automatic sprinkler system in entire building including each room of each flat.



- iv) The lift lobby / common passage are ventilated to outside air. This will facilitate speedy egress of smoke.
- v) During construction stage and before the final occupation party agreed to comply additional requirement stipulated by VVCMC Fire Brigade Officer, if any.

### **CONTROL FIRE BY CONSTRUCTION:-**

Fire Resistance Barriers such as walls, partition and floors, separate building spaces. These barriers also delay or prevent fire from propagation from one place to another in addition, barriers are important features in any fire fighting operation because they dictate the size of fire.

The effectiveness of a depends upon its inherent fire resistance construction and its penetration. Use of flame retardant paints, fire stop barriers, firewalls, fire doors and windows. Other few methods for controlling the fires by construction in building. Use of new fire resistive coating materials and technologies for limiting the spread of fire within the building, and use of fire resistant steels and concretes should be done while construction of high rise buildings.

#### **1. ACCESS:-**

- i) No compound wall shall be provided on Road side; however bollards with link chain may be permitted.
- ii) All access & fire tender access should be free of encumbrances.
- iii) **Entrance gate if provided shall be of not less than 6.00 meters width each shall be provided, at locations marked on the plan. Archways, if any over the entrance gates, shall have height clearance of not less than 6.00 mtrs.**

#### **2. COURTYARDS:-**

- i) The available courtyards on all the sides of the building including R.G. area shall be paved suitably to bear the load of fire engines weighting up to 48 M. tones each.
- ii) All the courtyards shall be in one plane.
- iii) No structure of any type shall be permitted in courtyards of the building.
- iv) The courtyards shall be kept free from obstruction at all times.

#### **3. 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.
- iii) 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.
- iv) 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.
- v) Repairing / servicing of cars, use of naked light shall not be permitted in the car parking areas.
- vi) The drive way shall be properly marked & maintained unobstructed
- vii) The Automatic Sprinkler System provided to the entire car parking area.

#### **4. PODIUM / CAR PARKING FLOORS:-**

- i) All the sides of the stilted / covered car parking shall be kept open except parapet walls of not more than 0.75 meters height.
- ii) Automatic sprinkler system to the entire parking floor & drencher system on the top of each podium floor shall be provided.
- iii) The driveways shall be properly marked and maintained unobstructed, proper illuminated signage shall be provided for escape route, ramps etc at prominent location.
- iv) **The top of the podium shall bear the load of fire engines weighing upto 48 m. tones each with point load of 10 kgs./sq. cms.**

#### **5. BASEMENT:-**

- i) Each basement shall be separately ventilated. Vents with cross, sectional area (Aggregate) not less than 2.5 percent of the floor area spread evenly around the perimeter of the basement shall be provided in the form of grills or breakable stall boards lights or pavement lights or by way of shafts. Alternatively, a system of air inlets shall be provided at basement floor level and smoke outlets at basement ceiling level. Inlets and outlets may be terminated at ground level with stall boards or pavement lights as before but ducts to convey fresh air to the basement floor level shall have to be laid. Stall boards

and pavement lights should be in position easily accessible to the fire Brigade personal and rescue teams and clearly marked 'SMOKE OUTLET' or 'AIR INLET' with an indication of area served at or near the opening.

- ii) The basements shall be used for designated purpose only as shown in the plan.
- iii) The basement shall be provided with natural ventilations through the ventilators, open cut outs as shown in the plan.
- iv) The staircases of the basement shall be of enclosed type and entry to basement areas shall be through two hours fire resistance self-closing door provided in the enclosed wall of the staircase and through smoke check / cut off lobby. The smoke check/ cut off lobby shall be mechanically pressurized.
- v) Mechanical ventilation shall be provided to the basement with 15 air changes per hour with an arrangement to accelerate the rate of air changes to 30 per hour in the event of a fire emergency.
- vi) The ducts of the mechanical ventilations system shall be of substantial metal gauge as per the relevant I.S. standard.
- vii) Basement area shall be divided in compartments as per rule.
- viii) The operating switches of the mechanical ventilation shall be located in the fire control room with appropriate zonal indications.
- ix) Exhaust duct shall be provided to draw out exhaust at ground level of the basement.
- x) Suitable signage's shall be provided in the basement showing exit direction, way to exits etc.
- xi) Automatic sprinkler system shall be provided in basement area /including ramp. These systems shall be installed as per the standard laid down by T.A.C. and relevant I.S. specifications
- xii) Smoke off lobby, Staircases, common passages & escape routes of the entire building shall be painted with fire retardant paint.
- xiii) Staircase and lift lobby shall have illuminated by inverter operated exits signs with IP 54 enclosure. Luminance of the signage's shall be such that they are visible from a distance of 12 to 16 meters.
- xiv) The staircase of the basement & the associated lift lobbies shall be pressurized in the event of fire. The pressure in this enclosed staircase and enclosed lift lobbies shall be maintained not less than 5m.m. W.G. & 2.5 mm W.G. for lift lobbies.
- xv) CO Detector with audible alarm system shall be provided to all the basement areas and the circuit of the same shall be given / connected to mechanical ventilation system to start automatically on actuation of CO detector and the other detectors provided in the basement.
- xvi) Ventilation system shall start automatically on actuation of detector provided in the basement area.
- xvii) Exhaust duct, mechanical ventilation duct should not pass through exit or entry.

## 6. STAIRCASE :-

- i) The flight width of staircases shall be maintained as shown in the enclosed plans.
- ii) The layout of staircases shall be enclosed type as shown in the plan throughout its height and shall be approached (gained) at each floor level at least two hours fire resistant self closing door (45 mm. thickness) placed in the enclosed wall of the staircase.
- iii) **Internally located staircases & lobbies shall be pressurized.**
- iv) **Permanent vent at the top equal to 5% of the cross sectional area of the staircase shall be provided.**
- v) Openable sashes or R.C.C. grills with clear opening of not less than 0.5 sq.mtrs. per landing on the external wall of the staircase shall be provided.
- vi) No combustible material shall be kept or stored in staircase / passage.
- vii) **Internal staircases shall be no combustible material.**

## 7. 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 for the shaft shall have two hours fire resistance.
- iii) Electrical shafts shall be sealed at each floor level with non-combustible material such as vermiculate concrete.
- iv) Electric meter room / panel provided at ground floor level at location marked on the plan. It shall be adequately ventilated.
- 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.
- vi) Electric shaft shall be painted with fire retardant intumescent paint.

**8. ESCAPE ROUTE FROM FLAT TO STAIRCASE :- (Corridor/Lift Lobby)**

Corridor / lift lobby at each floor level shall be ventilated to outside air, as shown on the plan. The ventilation to lift lobby shall not be blocked, covered or obstructed at any time.

**9. CORRIDOR / LIFT LOBBY :-**

- i) Corridor / lift lobby at each floor level shall be naturally ventilated / **pressurized**.
- ii) The common corridor / lift lobby at each floor level shall be kept free from obstructions at all times.
- iii) Proper signages for way to staircase, escape routes, staircase, floor nos. etc. shall be provided at each floor of building.
- iv) Portable lights / insta lights shall be provided at strategic locations in the staircase and lift lobby

**10. STAIRCASE AND CORRIDOR LIGHTINGS:**

- i) The staircase and corridor lighting shall be on separate circuits and shall be independently connected so that they 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.
- ii) Staircase and corridor lighting shall also be connected to alternate supply.
- iii) Double throw switches should be installed to ensure that lighting in the staircase and the corridor do not get connected to two sources of supply simultaneously. A double throw switch shall be installed in the service room to terminate the stand-by-supply.
- iv) Emergency lights shall be provided in the staircases/corridors.

**11. FLAT ENTRANCE, KITCHEN DOORS & EXIT / ENTRANCE STAIRCASE:-**

- i) Flat entrance and kitchen doors if any shall be of solid core having fire resistance of not less than one hour (solid wood of 45 mm thickness.)
- ii) The fire resistance rating for staircase F.R.D., Lift lobby / protected lobby & the lift doors as per N.B.C. provisions.

**12. ELECTRIC CABLE SHAFT AND ELECTRIC METER ROOM :-**

- i) Electric cable shafts shall be exclusively used for electric cables and should not open in staircase enclosure.
- ii) Inspection doors for shafts shall have two hours fire resistance.
- iii) Electric shafts shall be sealed at each floor level with non combustible materials such as vermiculite concrete. No storage of any kind shall be done in electric shaft.
- iv) Electric wiring/ cable shall be non-toxic, non-flammable, low smoke hazard having copper core / fire resistance for the entire building with provision of ELCB/MCB.
- v) Electric meter room shall be provided at ground floor level. It shall be adequately ventilated & easily accessible.
- vi) Electric wiring shall be having copper core having the fire resistance and low smoke hazard cables for the entire bldg., with the provision of ELCB/MCB. Low and medium voltage wiring running in shaft and in false ceiling should run in separate conduits.
- vii) Water mains, telephone lines, intercom lines, gas pipes or any other service line should not be laid in the duct for electrical cables; use of bus bar/solid rising mains instead of cables is preferred.
- viii) Separate circuits for fire fighting 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 fuse 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.
- ix) Master switches controlling essential service circuits shall be clearly labelled.

**13. ESCAPE ROUTE FROM FLAT TO STAIRCASE :- (Corridor/Lift Lobby)**

Corridor / lift lobby at each floor level shall be ventilated to outside air, as shown on the plan. The ventilation to lift lobby shall not be blocked, covered or obstructed at any time.

**14. FALSE CEILING (if provided):**

False ceiling if provided in the building shall be of non combustible material. Similarly, the suspenders of the false ceiling shall be of non combustible materials.

## **15. MATERIALS FOR INTERIOR DECORATION/FURNISHING**

The use of materials which are combustible in nature and may spread toxic fume / gases should not be used for interior decoration/furnishing, etc.

## **16. FIRE LIFT AND OTHER LIFTS :-**

- i) Walls enclosing lift shaft shall have a fire resistance of not less than two hours.
- ii) Shafts shall have permanent vent of not less than 0.2 sq. mtrs in clear area immediately under the machine room.
- iii) Landing doors and lift car doors of the lifts shall be of steel shuttered with fire resistance of one hour. No collapsible shutter shall be permitted.
- iv) One lift in wing A, one lift in each lift bank in wing B as well as wing C shall be converted into fire lift and shall be as per specifications laid down under the regulations.
- v) To enable fire services personnel to reach the upper floor with the minimum delay, one fire lift shall be provided and shall be available for the exclusive use of the firemen in an emergency and the directly accessible to each floor.
- vi) The lift shall have a floor area of not less than 1.4 sq. mtrs. with a minimum dimension of 1.12 mtrs. It shall have loading capacity of not less than 545 k.g. (8persons lift) with automatic closing doors.
- vii) There shall be an alternate electric supply of an adequate capacity apart from the electric supply the building and the cables run in a route safe from fire, i.e. within the lift shaft. In case of failure normal electric supply, it shall automatically trip over to alternate supply.
- viii) The operation of fire lift should be by a simple toggle or two button switch situated in glass-fronted box adjacent to the lift at the entrance level. When the switch is on, landing call points will become inoperative and the lift will be on car control only or on priority control device. When the switch is off, the lift will return to normal working. This lift can be used by the occupants in normal times.
- ix) The words 'Fire lift' shall be conspicuously displayed in florescent paint on the lift landing door at each floor level.

## **17. SMOKE MANAGEMENT SYSTEM:-**

- i) Escape routes like staircase, common corridor, lift lobbies, etc. shall not be used as return air passages.
- ii) Direct expansion system shall not be used.
- iii) The ducting shall be constructed of substantial gauge/metal in accordance with IS: 655:1963 metal air duct(devised).
- iv) Wherever the ducts pass through fire walls or floors, the opening around the ducts shall be sealed with fire resisting material such as vermiculite concrete or glass wool. A.C. ducting shall not pass through staircase wall.
- v) As far as possible metallic ducts shall be used even for return air instead of space above false ceiling.
- vi) The material used for insulating the ducts (inside or outside) shall be of non combustible type such as glass wool or spun glass with neoprene facing etc.
- vii) A.H.Us shall be provided of adequate size and shall be separate for each floor and air ducts for each floor/each theatre shall be separate and in no way inter connected with the ducting of any other floor.
- viii) Automatic fire dampers shall be provided at the inlet of fresh air duct and the return air duct of each compartment on every floor. They shall be so arranged as to close by gravity in the direction of air movement and to remain tightly closed upon operation of a smoke detector.
- ix) Air filters of A.H.Us shall be of non combustible material.
- x) A.H.U.room shall not be used for storage of any combustible material and shall be provided with half an hour fire resistance door.

## **18. ESCAPE ROUTE LIGHTING :-**

Escape route lighting (staircase and corridor lights) shall be on independent circuits as per rules.

## **19. FLATS ENTRANCE AND KITCHEN DOORS :-**

Flat entrance and kitchen doors shall be of solid core having fire resistance of not less than one hour (solid wood of 45 mm thickness).

**REQUIREMENT & PROVISIONS:-** The Following active fire protection system will be required to the safety of the buildings (Residential Cum Commercial Building) :-

SL	FIRE FIGHTING INSTALLATION	REQUIREMENTS	PROVISION	REMARKS
1	<b>PORTABLE FIRE EXTINGUISHER</b>	Required at all Basement, Electric meter Room, Lift Machine Room, Every Floor & Prominent places of building	<b>IS: 2190 &amp; IS: 15683</b>	<p>a. Two Dry Chemical Powder (A.B.C.) type fire extinguisher of 6 kgs. Capacity 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.</p> <p>b. Dry Chemical Powder (A.B.C.) type fire extinguishers of 6 Kgs. Capacity having I.S.I. certification mark shall be kept at ground floor.</p> <p>c. One dry chemical powder type fire extinguishers of 5 kgs. Capacity having I.S certification mark shall be kept on each floor level.</p>
2	<b>HOSE REEL HOSE</b>	One each floor in the staircase landing for fire fighting. Hose reel shall be connected directly to risers/ down comer main and diameters of the hose reel shall not be less than 19mm with IS 884, 1985.		
3	<b>HOSE BOX</b>	15mtrs Flax RRL hose fitted with male & female coupling of 63mm dia with one nozzle shall be in separate hose box on alternate floor.		
4	<b>UNDERGROUND WATER STORAGE TANK</b>	Required 200000 liters capacity.		An under ground water storage tanks each of 200000 liters capacity shall be provided at location marked on the plan, as per the design specified in the rules with baffle wall and fire brigade collecting breaching. Both the tanks shall be interconnected
5	<b>OVERHEAD WATER STORAGE TANK</b>	Required 25000 liters capacity		Tank of 25000 liters capacity shall be provided at the terrace level. The design and layout shall be got approved from H.E."s department prior to erection. The tank shall be connected to the wet riser through a booster pump through a non-return valve and gate valve.
6	<b>WET RISER</b>	Required in all staircase		Wet riser of internal dia. of 15 cms. of G.I. 'C' Class pipe shall be provided in the duct adjoining the staircase with double hydrant outlet & hose reel at each floor in such a way as not to reduce the width of the common corridor. Pressure reducing discs or orifices shall be provided at lower level, so as not to exceed the pressure of 5.5 kgs. per sq. cms. A fire service inlet on the external face of the building near the tank directly fronting the courtyards shall be provide to connect the mobile pump of the fire service to the wet riser. Fire service inlet shall be provided to refilled U.G. tank, to feed riser system by passing the fire pump & to feed sprinkler system. The wet risers shall be extended from ground floor up to topmost floor/terrace level.



SL	FIRE FIGHTING INSTALLATION	REQUIREMENTS	PROVISION	REMARKS
7	<b>AUTOMATIC SPRINKLER SYSTEM</b>	Required at each habitable room, all Basement, podium parking floors and lift lobby and common corridor at each floor level & Prominent places of building	standard laid down by T.A.C. and relevant I.S. specifications.	Automatic sprinkler system shall be provided in entire building including each habitable room, all Basement podium car parking areas and lift lobby and common corridor at each floor level. The automatic sprinkler system shall be installed as per the standard laid down by T.A.C. and relevant I.S. specifications.
8	<b>FIRE PUMP, BOOSTER PUMP, SPRINKLER PUMP AND JOCKEY PUMP</b>	<p>i) Wet riser shall be connected to a fire pump at ground level of 2850 litres / min capacity giving a pressure of not less than 3.2 kgs / sq.cms. at the topmost hydrant along with jockey pump of a suitable size.</p> <p>ii) Booster pump of capacity of 900 liters / min. having a pressure of not less than 3.2 kgs. / sq.cms. at the hydrant outlets of the wet riser-cum-down comer shall be provided at the terrace level of the building.</p> <p>iii) An independent sprinkler pump of suitable capacity along with jockey pump shall be provided for automatic sprinkler system.</p> <p>iv) Control panel / operating switches shall be located on ground floor.</p> <p>v) Electric supply (normal) to these pumps shall be on independent circuit.</p> <p>vi) One stand by pump of same capacity fire pump</p> <p>vii) Installation of negative section arrangement and submersible pump shall not be allowed.</p> <p>viii) Fire pumps shall be provided with soft starter or variable frequency drive starter</p>		
9	<b>EXTERNAL HYDRANTS</b>	courtyard hydrants shall be provided within the confines of the site of the wet riser-cum- down comer at the location marked on the plan.		
10	<b>ALTERNATE SOURCE OF POWER SUPPLY</b>	An alternate source of L.V. / H.V. supply from separate substation or through D.G. set with appropriate change over switch shall be provided for fire pumps, booster pump, staircase and corridor lighting circuits and manual fire alarm system. It shall be housed in a separate cabin.		
11	<b>FIRE ALARM SYSTEM</b>	The building shall be provided with manual fire alarm system with main control panel at ground floor level and pill-boxes and hooters at each upper floor level. The layout of fire alarm system shall be in accordance with I.S. specification.		
12	<b>AUTOMATIC SMOKE DETECTION SYSTEM</b>	Required in all Basement, Electric meter room, common corridor at each floor level & lift machine room & prominent places of Building	Automatic smoke detection system with main console panel at ground floor level shall be provided in Electric meter room, common corridor at each floor level & lift machine room as per the standard laid down by T.A.C. or relevant I.S. specification.	
13	<b>RATE OF RISE DETECTORS</b>	Rate of rise detectors shall be installed in the hot areas i.e. kitchen, pantry, etc. and same shall be connected to main console at ground floor level.		
14	<b>SIGNAGE'S</b>	Self glowing / fluorescent exit signs in green color shall be provided showing the means of escape for the entire building.		
15	<b>SIAMESE CONNECTION</b>	One Siamese connection (2 way) shall be provided at entrance gate of building.		
16	<b>PUBLIC ADDRESS SYSTEM</b>	The entire building shall be provided with public address system having console panel at ground floor level and it shall have battery back-up.		



Fire Under Ground water storage tank (UG) / Overhead (Terrace) water storage tanks should exclusively for fire fighting application. The tank liquid volume is as per capacities mentioned in provisional NOC from this department excluding Free Board (FB) of tanks. Proper space should be provided for the fire duct & a provision of working platform (working platform is most important for fire system maintenance) within is must. The pump room with positive suction is important norm from NBC 2016 part 4 Life & Safety & should be strictly adhered with.

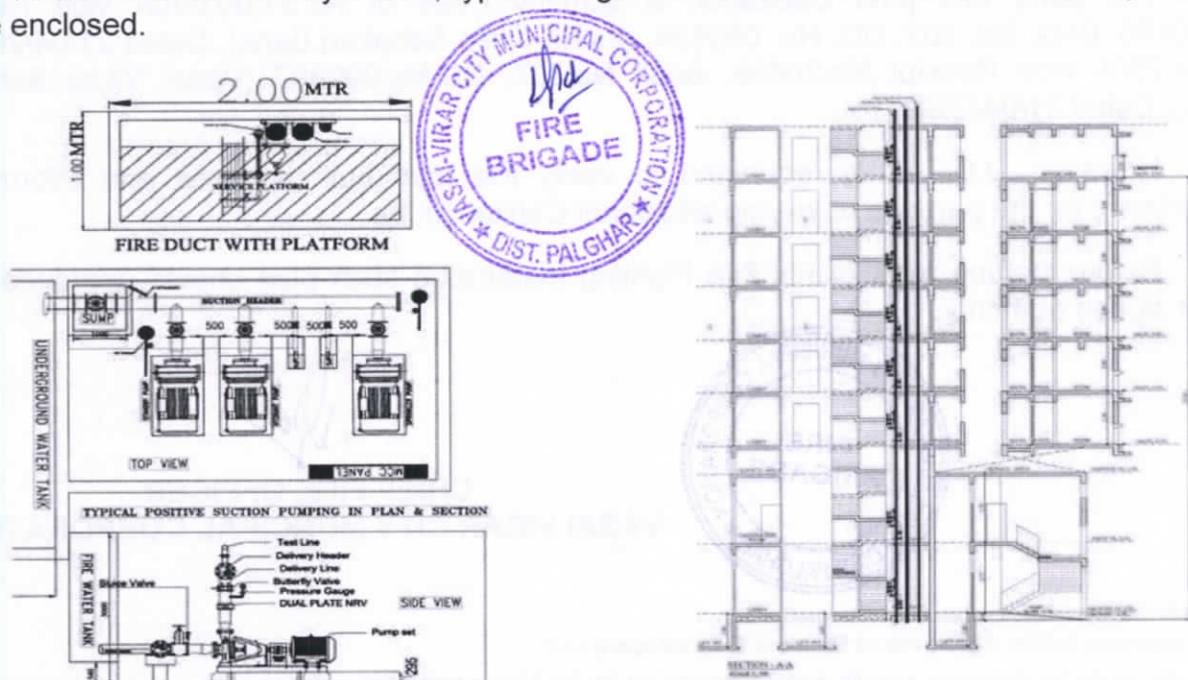
In case of a high-rise building having 2 enclosed type staircases, the position of staircase shall be planned as such that both staircases are positioned in opposite site to each other and should be connected by passage of minimum width of 1.50mtr.

This department issues the provisional NOC at the beginning of the new site work. The Developers / Owners / Occupiers should take the good care of the possible provisions mentioned in provisional fire NOC. The Developers / Owners / Occupiers should contact of fire license agencies operating in this area or else should search on Maharashtra Fire Services (MFS) web site [www.mahafireservices.gov.in](http://www.mahafireservices.gov.in) to interpret the provisional fire NOCs as far as civil and other provisions are concerned.

Developers / Owners / Occupiers should abide the Maharashtra Fire Prevention & Life safety Measures Act 2006 especially regarding the compliance of the fire prevention and life safety measures in form "A" or maintenance thereof in good repair & efficient condition in form "B" on January & July of every year.

All the affidavits, Undertaking, Declaration submitted for Final NOC/ Renewal NOC shall be made on Rs. 500/- stamp paper, and shall have a Notary before me stamp along with serial number and date.

For reference & necessary action, typical diagrams for Fire Duct, Positive suction pump room are enclosed.



## 20. REFUGE AREA:-

- i) The layout of the refuge area shall not be changed / modified at any time in future.
- ii) Refuge area shall be provided with railing / parapet of 1.10 meters height on external sides and shall be of sound construction.
- iii) Refuge area shall be segregated by brick masonry partition wall of 9" thickness or concrete block wall of 6" thickness and access to refuge area shall be gained through half an hour fire resistance self closing door.
- iv) There shall not be any opening in to the refuge area from any portion of the occupied premises.
- v) Refuge area shall be earmarked exclusively used for the use of occupants as temporary shelter and for the use of Fire Brigade department or any other organization dealing with fire or other emergencies when they occur in the building and also for exercises / drills, if conducted by the Fire Brigade department.
- vi) Refuge area shall not be allowed to be used for any other purpose and it shall be the responsibility of the owner / occupier to maintain the same clean and free of the encumbrances and encroachments, at all times.
- vii) Entrance door to the refuge area shall be painted or fixed with a sign painted in luminous paint mentioning "**REFUGE AREA IN CASE OF EMERGENCY**".
- viii) Adequate drinking water facilities shall be provided in the refuge area.
- ix) Adequate emergency lighting facility connected to electric circuits of staircase / corridors lighting shall be provided in the refuge area.

- Terrace shall be treated as refuge area and shall be provided as under:-
- The entrance door to the refuge area shall be painted or fixed with a sign painted in luminous paint mentioning " REFUGE AREA IN CASE OF EMERGENCY " .
  - Adequate drinking water facility shall be provided in the refuge area.
  - Adequate emergency lighting facility connected to the electric circuit to the staircase, corridor / passage etc. lighting shall be provided.

**21. LIGHTENING ARRESTOR :-**

Each structure should have lightening arrestor system carried out by licensing electrical contractor authorized by Maharashtra State PWD- Electrical cell.

**22. TREE CUTTING:- (IF ANY)**

Trees falling before entrance gates and Refuge areas trees falling within the compulsory open space / courtyard if any shall be either transplanted or to be cut as may be found feasible by the Supdt. of Garden.

The other provisions of D.C. Rules of V.V.C.M.C & N.B.C part IV, 2016 should be strictly followed.

The Chief Fire Officer reserves rights to amend any additional recommendations deemed fit during the final inspection due to the statutory provisions amended from time to time and the interest of the protection of structure.

The party has paid Capitation & scrutiny Fees of Rs.21,00,000/- vide Receipt No.30696, Book No. 307, DD. No. 099899, (Vasai Vikas Sahakari Bank), Dated:21/04/2022 & Rs.24,200/- vide Receipt No.30696, Book No.307, DD.No.099897 (Vasai Vikas Sahakari Bank), Dated:21/04/2022.

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

Before starting work of Fix Fire Fighting Installation such plan should approved from under signed authority.



A handwritten signature in blue ink, appearing to be "D. D. T. P.", written over the official title.

**CHIEF FIRE OFFICER  
VASAI VIRAR CITY MUNICIPAL CORPORATION**

Copy to Architect- 1) M/s-En Con Project Consultants  
Developer 2) M/s- Shree Varad Builders & Developers LLP

**Note:** - As per the fire Prevention and Life Safety Measures Act the fire fighting Installation work has to be carried out by licensing fire contractor authorized by Director of Maharashtra fire services only. The list of the License Agencies is available on [www.maharashtrafireservice.org](http://www.maharashtrafireservice.org) or [www.mfsindia.org](http://www.mfsindia.org).