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TAMIL NADU FIRE AND RESCUE SERVICES DEPARTMENT

From
Thiru. Braj Kishore Ravi, I.P.S.,
DGP / Director,
Tamil Nadu Fire and Rescue Services,
No.17, RukmaniLakshmipathiSalai,
Egmore, Chennai – 600 008.

To
The Member Secretary,
Chennai Metropolitan
Development
Authority,
No.1, Gandhi Irwin Road,
Egmore, Chennai – 600 008.

R.Dis.No.5251/C1/2022 Dated.02.06.2022
PP NOC No.75/2022

Sir,

Sub : Tamil Nadu Fire and Rescue Services – Directorate – High Rise Building – Issue of Revised Planning Permission NOC requested - Inspection at M/s. NCC URBAN INFRASTRUCTURE LIMITED, S.No.552/1A1, 553/2B1A, 553/2B2A, 742/1 (Part), 742/2, 743/3B, 744/1B & 1C, 745/1A, 1B & 2B, Chemencherry Nukampalayam Road, Sholinganallur Village, Chennai - Reg.

Ref : 1) The CMDA letter No.CMDA/PP/HRB/S/0030/2022, dated:23.03.2022.
2) The Joint Director, Northern Region, Report Rc.No.1422/C/2022, Dated:17.05.2022.

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Kindly refer to the letter cited above. The MSB inspection committee of the northern region has inspected the site of M/s. NCC URBAN INFRASTRUCTURE LIMITED, S.No.552/1A1, 553/2B1A, 553/2B2A, 742/1 (Part), 742/2, 743/3B, 744/1B & 1C, 745/1A, 1B & 2B, Chemencherry Nukampalayam Road, Sholinganallur Village, Chennai for which the revised PP NOC has been requested. The committee has made certain observations with regard to fire and life safety, which are reproduced below:-

Observation:

The applicant got planning proposal NOC from DFRS vide letter R.Dis.No.12695/C1/2020 (PP NOC No.126/2020), Dated.18.12.2020 for the construction of residential building consisting of Tower 1, 2, 3, 4 (EWS), 6, 7

consisting of common basement + common stilt floor + 14 floors with the equal height of 44.90 meters and Towers 5 consists of common basement + common stilt floor + 13 floors with the height of 42.10 meters.

Now the applicant applied for revised planning proposal for the construction of residential building consisting of Tower 1, 2, 3, 4 (LIG), 6, 7 consists of combined stilt floor & combined 1st floor (parking) + 2nd floor to 15th floors with the equal height of 48 meters and Tower 5 consisting of combined stilt floor & combined 1st floor (parking) + 2nd floor to 14th floors with the height of 45.5 meters. Tower 8 (club house) consisting of ground floor (multipurpose hall) + 1st floor (spa, gym) + 2nd floor (shuttle court and indoor games) + 3 floors with the height of 17.40 meters. The plot area is 74211.58 square meters and the total buildup area is 112033.2 square meters. The building has been provided with a side set-back of 10 meters at all sides. Turning radius of 10 meters should be provided. The proposed occupancy is classified to come under Group A – Residential Building, Sub-Division A – 4 Apartments, as per the National Building Code of India Part IV fire and life safety – 2016.

The following fire & life safety measures should be provided in the proposed building before the issue of compliance certificate as listed below:

1. There should be a wet-riser along with hose reel assembly per thousand square meters area covering all floor areas with landing valves along with delivery hoses. The raiser should be fully charged with adequate pressure at all times & should have both automatic and manual operation. To feed the wet-riser and sprinkler system an underground static water tank of minimum capacity 150000 liters should be provided with refilling facilities for per set of pumps. A terrace level tank of capacity 10000 liters also should be provided respective tower terrace. To charge the wet riser system and sprinkler system two electrical pumps of capacity 2280 LPM, an equal capacity of a diesel pump and two electrical pumps of each capacity of 180 LPM as a jockey pump should be provided near the underground water tank. The pumps should

be capable of developing pressure of 3.5 kg/cm^2 at terrace level hydrant point.

2. Fire service inlets fitted with NRV at ground level should be provided.
3. Manually operated electric fire alarm system also includes talk back system to be provided at all floors.
4. Public address system should be provided connecting all the floors.
5. Automatic sprinkler system should be provided at all floors including stilt floor for parking.
6. Alternative & independent power systems should be provided to fire pumps, emergency lighting system and fire lift.
7. The first aid firefighting equipment's should be provided at all floors in accordance with the IS 2190: 2010 requirements.
8. Fire exit - internal staircases and external staircase:

   Two staircases are provided at each block and Atleast one staircase should be designated as Fire escape staircase and should be pressurized as per the clause 4.4.2.5 of the requirements of National Building Code of India.

   As per clause 4.4.2.4.3.2 of the National Building Code of India part IV fire and life safety 2016 – As per plan the staircases have a minimum width of 1.50 meters without railing. The minimum width of tread without nosing shall be 250 mm for residential Building and the tread shall be constructed and maintained in a manner to prevent slipping. The maximum height of riser shall be 150 mm for residential building and the number shall be limited to 12 per flights.

   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.

   All exits shall provide continuous means of egress to the exterior of a building or to an exterior open space leading to a street.

   Exits shall be so arranged that they may be reached without passing through another occupied unit.

As per clause 4.4.2.4.3.4 of the National Building Code of India part IV fire and life safety 2016- All external stairs shall be directly connected to the ground.

Entrance to the external stairs shall be separate and remote form the internal staircase.

Care shall be taken to ensure that no wall opening or window opens on to or close to an external stairs.

The route to the external stairs shall be free of obstructions at all times.

The external stairs shall be constructed of non-combustible materials and any doorway leading to it shall have the required fire resistance.

No external staircase, used as a fire escape, shall be inclined at an angle greater than 45 degrees from the horizontal.

Fire lifts:

As per clause 4.4.2.4.3 (h) (6) of NBC 2016. Lift shall not open in staircases.

Fire lifts shall be provided with a minimum capacity for 8 passengers and fully automated with emergency switch on ground level. In general, buildings 15m in height or above shall be provided with fire lifts.In case of fire, only fireman shall operate the fire lifts. In normal course, it may be used by other persons.

Each fire lift shall be equipped with suitable inter-communications equipment for communicating with the control room on the ground floor of the buildings.

9. The number and location of fire lifts in a building shall be decided after taking into consideration various factors like building population, floor area, compartmentation, etc.
10. **The applicant should not provide any obstruction like transformer yard, generator, swimming pool, landscape, LPG bank etc., in the setback area, so as to facilitate the easy movement and operation of an aerial ladder platform vehicle**

during emergency. The setback area should not have any slope gradient and not be elevated from the ground level.

11. **Vehicular access within the site** – Internal vehicular access way including passage if any within the site shall have a clear width of 7.2m.
12. The swimming pool should be constructed as per G O NO.97 municipal administration and water supply (MA 1) Department Dated.07.07.2015.
13. Any ramp should not exceed the building line and should not obstruct the side set back area at all around the building for the easy movement of an aerial ladder platform vehicle operation during emergency.
14. **Fire fighting pump house**

    As per clause 5.1.2.2 of the National Building Code of India part IV fire and life safety 2016

    a) It is preferable to install the pump house to provide positive suction. Pump house shall be situated so as to be directly accessible from the surrounding ground level.
    b) Pump house shall be separated by fire walls all around and doors shall be protected by fire doors (120 min rating).
    c) Pump house shall be well ventilated and due care shall be taken to avoid water stagnation.
    d) No other utility equipment shall be installed inside the fire pump room.
    e) Insertions like flexible couplings, bellows, etc., in the suction and delivery piping shall be suitably planned and installed.
    f) Installation of negative suction arrangement and submersible pumps shall not be allowed.
    g) Pump house shall be sufficiently large to accommodate all pumps and their accessories like PRVs, installation control valves, valves, diesel tank and electrical panel.
    h) Battery of diesel engine operated fire pump shall have separate charger from emergency power supply circuit.

i) Exhaust pipe of diesel engine shall be insulated as per best engineering practice and taken to a safe location at ground level, considering the back pressure.

j) Fire pumps shall be provided with soft starter or variable frequency drive starter.

14. **Glass of facade used in external walls shall comply with the following:**

    a. For fully sprinklered buildings having fire separation of 9 m or more, tempered glass in a non-combustible assembly with ability to hold the glass in place, shall be provided. It shall be ensured that sprinklers are located within 600 mm of the façade glass providing full coverage to the glass.

    b. All gaps between floor slabs and façade assembly shall be sealed at all levels by approved fire resistance sealant material of equal fire rating as that of floor slab to prevent fire and smoke propagation from one floor to another.

    c. **Facade glass at each floor shall have means to open at least 10 percent of the total facade area to exhaust smoke during emergencies. Such openings, with sill level at 1.2 m, shall be in the form of openable panels of size not less than 1500 mm x 1000 mm opening outwards.**

15. Illuminated exit signage's should be provided with alternative source of power supply or battery back – up with "GLOW TYPE".
16. Service ducts and shafts: As per clause 3.4.5.4 of the National Building Code of India part IV fire and life safety 2016.
17. Fire lift, electrical installation and wiring, AC duct & other service ducts should meet the requirements of NBC of India, Part 8, 2016.
18. The width and height of any arch or gate, if any, should have the clearance of not less than 4.5 m and 5 m respectively.
19. The compulsory open space as per DCR set back area all around the building should be designed to with stand a weight of 64 tons at any

point of operation for the use of hydraulic platform vehicle. In any case, no ramp, landscape garden and swimming pool shall be allowed in the setback are. The entire setback area earmarked shall be hard paved or provided with reinforced concrete so as to withstand the weight of the aerial ladder platform.

20. The service ducts such as power cables, communication cables, A/C ducts etc., should be protected with proper fire sealing/fire dampers.
21. The cable gallery should be routed through fire resistant duct or fire protected tray. Suitable detectors shall be provided along the lines of the cable gallery.
22. Fire resistant and low smoke emission cable should be used.
23. Assembly points should be designated at the ground floor as per the requirements of fire and life safety measures.
24. Dos and don'ts laminated hanging pads should be available in all floors in prominent places.
25. Evacuation route plan should be displayed in each floor at prominent places.
26. If the construction is done with prefabricated materials, sufficient natural vent / mechanized ventilation system should be provided.
27. A trained fire officer with a crew shall be arranged to maintain as well as to operate the fire protection systems in case of any need.
28. During construction of the building the following fire protection measures should be provided in good working condition:
    a) Dry riser minimum 100 mm diameter pipe with hydrant outlets on the floors constructed with a fire service inlet to boost the water in the riser from fire service pumps.
    b) Drums filled with water of 2000 liters capacity with two fire buckets on each floor.
    c) A water storage tank of minimum 20000 liters capacity, which may be used for other construction purposes also.

The MSB inspection team has recommended to issue revised planning permission / no objection certificate to the proposed building subject to the fulfillment of the above mentioned conditions.

In view of compliance with the above said facts a revised PP/NOC is issued from the fire service point of view so as to accord planning permission for the above said proposed building subject to fulfillment of all the above said conditions, as recommended by the MSB committee. After completion of this project the compliance certificate should be obtained to ensure fire safety measures.

for Director, 31.1.-
Fire and Rescue Services,
Tamil Nadu.

TAMILNADU FIRE AND RESCUE SERVICES
DIRECTORATE
CHENNAI-8

To:

M/s. NCC Urban Infrastructure Limited,
GPA for M/s. Serene Estates Private Limited / NSL SEZ (Chennai) Private Limited,
3rd Floor, New Airport Road,
Opposite Jakkur Aerodrome,
Bengalur – 560 064.

Copy to:

The Joint Director, Fire and Rescue Services,
Northern Region, Chennai.

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.