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**C.KANNAN**, M.E. (Structure)
STRUCTURAL ENGINEER

Door .21, plot No. 257- W, Flat No. 2B
"Utopia Apartments" 2nd Floor,
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Chennai- 600 020
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**20-03-2025**

## STRUCTURAL STABILITY CERTIFICATE

The detailed engineering and structure design of the Proposed Residential Building Comprising of Having Stilt plus Five Upper Floors at Door No: 13(6), Jaganathan Road, Nungambakkam, and Chennai 600034. R.S. No: 121/10, Block No: 20 Of Nungambakkam Village, Greater Chennai Corporation, Division: 113, Zone: 09 has been done based on the report of geotechnical investigation (soil test) done by Geo Mines Engineers Pvt Ltd Report No:319/2024-2025 dated 23-09-2024 and considering the functional requirement of the building.

1. It is certified that among other factors, the proposed building has been designed to resist earthquake. I have checked various parameters and found that the proposed building would be safe.

2. I further certify that:
   (i) The minimum grade of concrete is M25
   (ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456, design loads as per IS-875 Part I to III and design of earthquake resistant structure as per one code IS 1893, is carried out.

The Structure is safe and sound when used for the purpose for which it is designed.

C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

**PROPOSED RESIDENTIAL BUILDING AT DOOR NO: 13(6), JAGANATHAN ROAD, NUNGAMBAKKAM, CHENNAI -600034. R.S. NO: 121/10, BLOCK NO: 20 OF NUNGAMBAKKAM VILLAGE, GREATER CHENNAI CORPORATION, DIVIDION: 113, ZONE: 09**

## GENERAL NOTE ON STRUCTURAL DESIGN

### 1.0 GENERAL

#### 1.1 DESIGN BASIS

The proposed residential building consists of Stilt plus Five upper floors.

The design of this building is carried out based on frame analysis using STAAD CONNECT.

#### 1.2 CODES AND STANDARDS

All structural design is carried out conforming to the provisions of National Building Code of India and other relevant Indian Codes and Standards.

1. I.S. 456 - 2000
2. I.S. 875 - Part I to III
3. I.S.1893 - 2016

### 2.0 BASIC CIVIL DESIGN LOADS

#### 2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

| | | |
|---|---|---|
| Self weight of slab | = | 3.25kN/m² |
| Floor finish | = | 2.0kN/m² |
| Live load | = | 2.0kN/m² |
| | | 7.25kN/m² |

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## 3.0 SOIL DETAILS

Based on soil test report Pile Foundation is adopted.

## DESIGN METHODS

General design and detailing of concrete members/elements are done conforming to the provisions of I.S: 456 and other relevant I.S codes. Limit State method is followed for the design.

Seismic Zone III load is taken into account for the analysis. The predominant direction of vibration is horizontal. Relevant combination of forces has been taken into account.

**4.1**

| Load Combination | Ultimate Limit Load | Serviceability Limit State |
|---|---|---|
| DL+LL+WL<br>Or<br>DL+LL+EL | 1.2DL+1.2LL+1.2WL<br>Or<br>1.2DL+1.2LL+1.2EL | DL+LL+WL<br>or<br>DL+LL+EL |

4.3 **MINIMUM COVER**

| | |
|---|---|
| Slab | 15 mm |
| Beam | 25 mm |
| Columns | 40 mm |
| Foundations | 50 mm |

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