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

Door .21, plot No. 257- W, Flat No. 2B
"Utopia Apartments" 2nd Floor,
4th Main Road, Indira Nagar,
Chennai- 600 020
Mobile: 9841249815
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STABILITY CERTIFICATE

(To be furnished while filing application for registration of building)

The detailed engineering and structure design of the proposed Multistoried building comprising Of Two basement plus Ground plus Eleven upper floors at Door No: 112, Plot No:112, Rajiv Gandhi Salai, (Old Mahabalipuram Road), Kandanchavadi, Perungudi, Chennai-600096. Comprised In Survey Nos: 286/3b1a, 286/3b1b1, 286/3b2a, 286/3b2b1 Of Kottivakkam Village, Sholinganallur Taluk(Previously Tambaram Taluk), Chennai District has been done by me/us based on the report of geotechnical investigation (soil test) done by Prasad Armstrong Yengec (P) Ltd Report No. 067/GI/18-19. Dated 27-07-2018 and considering the functional requirement of the building.

2. 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.

3. I/we 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.

4. The building will be safe and sound when used for the purpose for which it is designed

Stamp and signature

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.

Encl.: structural Design calculation

THE PROPOSED MULTISTORIED BUILDING, DOOR NO:112, PLOT NO:112, RAJIV GANDHI SALAI, (OLD MAHABALIPURAM ROAD), KANDANCHAVADI, PERUNGUDI, CHENNAI-600 096. COMPRISED IN SURVEY NOS:286/3B1A, 286/3B1B1, 286/3B2A, 286/3B2B1 OF KOTTIVAKKAM VILLAGE, SHOLINGANALLUR TALUK(PREVIOUSLY TAMBARAM TALUK), CHENNAI DISTRICT

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

The proposed multistoried building consists of two basements plus Ground plus Eleven upper floor

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

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 - 2002

2.0 BASIC CIVIL DESIGN LOADS

2.1 DEAD LOADS & LIVE LOADS

Typical slab load is calculated as follows

Self weight of slab	=	7.25kN/m²
Floor finish	=	2.0kN/m²
Live load	=	5.0kN/m²
		14.5kN/m²

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3.0 SOIL DETAILS

Based on soil test report Isolated 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	1.2DL+1.2LL+1.2WL	DL+LL+WL
Or	Or	or
DL+LL+EL	1.2DL+1.2LL+1.2EL	DL+LL+EL

4.3 **MINIMUM COVER**

Slab	20 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

Structure will be sound and stable when used for the purpose for which it is designed.

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Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

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