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UNIVERSAL CONSULTANTS

STABILITY CERTIFICATE

The detailed engineering and structure design of the proposed Construction of Residential Non High Rise Group Development Building consists of 2 Blocks with Combined Basement, Block 1: Ground Floor + 5 Upper Floors, (87 D/U) Block 2: Ground Floor (Part) + 5 Upper Floors, (136 D/U) Club House (Part) Ground Floor + 4 Upper Floors with Swimming Pool on the Ground Level, Totally 223 D/U comprised in S.No. 524/2A & 524/2B of Sulur Village, Sulur Taluk, Coimbatore District has done by me/used based on the report of geotechnical Investigation (Soil test) done by Geo Engineering Consultants 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/We 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 analysis has been done using the code of practice for plain and reinforced concrete as per IS-456, design loads as Per IS Codes No IS-875 and design of earthquake resistant structure as per IS Code No IS-1893 & IS-13920.

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

Stamp and Signature

Dr. S. SURESH, M.E., M.I.E., Ph.D.
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
Reg. No. SE/I/2024/2/0014
Reg. No. RSE100382019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005

Encl.: Structural Design Calculation

26-10-2024

THE PROPOSED CONSTRUCTION OF RESIDENTIAL NON HIGH RISE GROUP DEVELOPMENT BUILDING CONSISTS OF 2 BLOCKS WITH COMBINED BASEMENT, BLOCK 1: GROUND FLOOR + 5 UPPER FLOORS, (87 D/U) BLOCK 2: GROUND FLOOR (PART) + 5 UPPER FLOORS, (136 D/U) CLUB HOUSE (PART) GROUND FLOOR + 4 UPPER FLOORS WITH SWIMMING POOL ON THE GROUND LEVEL, TOTALLY 223 D/U COMPRISED IN S.NO. 524/2A & 524/2B OF SULUR VILLAGE, SULUR TALUK, COIMBATORE DISTRICT.

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

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

1.2 CODES AND STANDARDS

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

1. I.S. 456
2. I.S. 875 - Part I to V
3. I.S.1893
4. I.S.13920

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 0kN/m²
Floor finish	=	2.0kN/m²
Live load	=	2.0kN/m²
		7.0kN/m²

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3.0 SOIL DETAILS

Based on Soil Test Report Isolated Foundation is adopted.

4.0 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 Or DL+LL+EL	1.2DL+1.2LL+1.2WL Or 1.2DL+1.2LL+1.2EL	DL+LL+WL Or DL+LL+EL

4.2.1 MINIMUM COVER

Slab	25 mm
Beam	30 mm
Columns	40 mm
Raft Foundations	50 mm

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

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Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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