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30-08-2024

CERTIFICATE

It is certified that the Proposed Construction of Phase – 1 Non High Rise Residential Group Development consists of 2 Blocks with Combined Basement, Block A : Ground Floor + 5 Upper Floors, (143 D/U) Block B: Ground Floor (Part) + 5 Upper Floors, (64 D/U) Clubhouse (Part) Ground Floor + 4 Upper Floors and Swimming Pool on the Ground Floor Level, Totally 207 D/U comprised in S.No. 150 / 1A2B of Kannampalayam Village ,Sulur Taluk Coimbatore District is designed to resist Earth Quake. Check has been made and Ffund safe and I hereby certify that,

1. The minimum grade of concrete is M25.

2. The design analysis using the code of practice for loading Standards as per IS-875 Part I to V and seismic force as per code IS 1893, is carried out.

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

(SURESH.J)

Dr. J. SURESH, M.E., MIE., 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

30-08-2024

THE PROPOSED CONSTRUCTION OF PHASE – 1 NON HIGH RISE RESIDENTIAL GROUP DEVELOPMENT CONSISTS OF 2 BLOCKS WITH COMBINED BASEMENT, BLOCK A : GROUND FLOOR + 5 UPPER FLOORS, (143 D/U) BLOCK B: GROUND FLOOR (PART) + 5 UPPER FLOORS, (64 D/U) CLUBHOUSE (PART) GROUND FLOOR + 4 UPPER FLOORS AND SWIMMING POOL ON THE GROUND FLOOR LEVEL, TOTALLY 207 D/U COMPRISED IN S.NO. 150 / 1A2B OF KANNAMPALAYAM VILLAGE ,SULUR TALUK COIMBATORE DISTRICT.

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

The Proposed Residential Building having Apartment Block - Basement + Ground + 5 Floors & Villas - Ground + 2 Floors

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

Residential Building

Self weight of slab	=	3 0kN/m^2
Floor finish	=	2.0kN/m^2
Live load	=	2.0kN/m^2
		7.0kN/m^2

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3.0 SOIL DETAILS

Based on Soil Test Report Isolated Footing is adopted having SBC of 30t/sqm.

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	15 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

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

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