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08-08-2024

THE PROPOSED CONSTRUCTION OF BASEMENT FLOOR (TW PARKING) + STILT FLOOR (PART) (PIT PUZZLE PARKING) / GROUND FLOOR (PART) + 4 FLOORS COMMERCIAL BUILDING (OFFICE – 18.30M HEIGHT) AT DOOR NO.109/1 & 109/2, OLD DOOR NO.98/1 & 98/2, VELACHERY MAIN ROAD, GUINDY, CHENNAI 600032, COMPRISED IN T.S.NO.6/1 & 6/2, BLOCK NO.9 OF ADAYAR VILLAGE WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION ZONE:13, DIVISION:172

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 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	=	5 0kN/m²
Floor finish	=	2.0kN/m²
Live load	=	5.0kN/m²
		12.0kN/m²

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

3.0 SOIL DETAILS

Based on Soil Test Report Isolated with Raft 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
Foundations	50 mm

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

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