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30.01.2024

STABILITY CERTIFICATE

It is certified that the Construction of Stilt Floor + 5 Floors, Commercial Building (Shops) at Old Door No: 60, New Door No: 74, Cathedral Road, Mylapore, Chennai – 600 086. Comprised in R.S.No: 1206/10, Block No: 25, Mylapore Village, Mylapore Taluk, Chennai District within Greater Chennai Corporation Limits. Zone No: IX, Division No: 118, is designed to resist earth quake. Check has been made and found safe and I hereby certify that,

1. The minimum grade of concrete is M 25.
2. The design and analysis using the Code of Practice for Plain and Reinforced concrete as per IS 456, Design Loads as per IS-875 Part I to V and Design of Earthquake Resistant Structures as per IS 1893 are carried out.

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


(Dr.ALEX JACOB)

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CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

**THE CONSTRUCTION OF STILT FLOOR + 5 FLOORS,
COMMERCIAL BUILDING (SHOPS) AT OLD DOOR NO: 60, NEW
DOOR NO: 74, CATHEDRAL ROAD, MYLAPORE, CHENNAI – 600
086. COMPRISED IN R.S.NO: 1206/10, BLOCK NO: 25, MYLAPORE
VILLAGE, MYLAPORE TALUK, CHENNAI DISTRICT WITHIN
GREATER CHENNAI CORPORATION LIMITS. ZONE NO: IX,
DIVISION NO: 118.**

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 STAAD Pro V8i.

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
5. I.S.800

2.0 BASIC CIVIL DESIGN LOADS

2.0 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Commercial Building

Self weight of slab	=	5.0kN/m ²
Floor finish	=	2.0kN/m ²
Live load	=	5.0kN/m ²

		12.0kN/m ²


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3.0 SOIL DETAILS

Based on Soil Test Report Pile 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	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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Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management



We're honored to be part of your
real estate journey

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