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DESIGNAGE
Consulting Structural Engineers

Date:-07.10.2024

STABILITY CERTIFICATE

It is Certified that the Proposed Construction of Stilt + 4 Floors Commercial Building (16.0m Height) at Old No.97, New No. 72 , T.S.No. 9382/2, Block No. 109, G. N. Chetty Road, T. Nagar, Chennai, Tamil Nadu, India 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 30.
2. The design and analysis using the Code of Practice for Plain and Reinforced concrete as per

   IS 456. Design Loads as per 1S-875 Part I to V and Design of Earthquake Resistant

   Structures as per IS 1893 are carried out.

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

Stamp and Signature

P. PRADEEP, B.E. M.Tech
Structural Engineer Gr I (CMDA)
Regn. No : SE/Gr-1/19/07/184
Cell : 9500702114
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Encl: Structural Design Calculation

Office No. 402, Wing – C, 4th Floor, Audumbar Apts., Canal Road, Warje, Pune – 411 052
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DESIGNAGE
Consulting Structural Engineers

THE PROPOSED CONSTRUCTION OF STILT + 4 FLOORS COMMERCIAL BUILDING AT OLD NO. 97, NEW NO.72, T.S.NO. 9382/2, BLOCK NO. 109, G. N. CHETTY ROAD, T. NAGAR CHENNAI,

TAMIL NADU, INDIA.

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 E-Tabs version 19.

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

2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Commercial Building

Self-weight of stab	=	5.0 KN/m^2
Floor finish	=	1.0 KN/m^2
Live load	=	4.0 KN/m^2
Services	=	0.5 KN/m^2
		10.5 KN/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 IS: 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	30 mm
Columns	40 mm
Pile/ Pile cap	75 mm

The building will be safe and sound 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

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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