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DESIGNAGE
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STABILITY CERTIFICATE

The detailed engineering and structural design of the proposed building comprising of Stilt +4 floors at S.F.No. 784/3& 784/4A of Kalapatty (East) Village, Coimbatore North Taluka, Coimbatore has been done by me/us based on the report of geotechnical investigation (soil test) done by KARPAGAM ACADEMY of Higher Education Coimbatore 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 M:30

ii. The design and 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

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

P. PRADEEP, B.E.,M.Tech (Struct)
Structural Engineer (Grade - I), DTCP
Reg No: CGLRGN/SE/Gr-I/ 2019/05/007
E2-607 Purva Windermere, Pallikaranai,
Chennai - 600 100. Ph: 95007 02114

DESIGNAGE
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FORM -B

(Form of Certificate of structural Stability under sub-section (4) of section 4 of the Tamilnadu public Buildings (Licensing) Act, 1965 (Tamilnadu Act, 13 of 1965) referred to in rule 4 of the Tamilnadu public buildings (Licensing) Rules 1966)

1. Foundation

i) Depth below ground level : 10'0"

ii) Nature of soil met with at foundation level : Soft disintegrated rock with gravels

iii) Probable safe bearing capacity of the strata met with at foundation : 250 KN/m^2

2. Super structure

i) Maximum stress in the most critical : RCC column footing

ii) Nature of masonry & concrete : External wall 230 thk Brick wall

its safe permissible stresses Internal wall 115 thk. Brick wall

RCC M 25 /M30 Mix.

This building has been designed to take seismic forces & other loads as per the relevant Indian standard codes.

Reg. No:
Class :

Address: P. PRADEEP
E2607 purva windermere , pallikarnai,
CH100 ,Chennai -600032

P. PRADEEP M.Tech
DTCP Reg No. CGLRGN/SE/GR-I/2019/05/007
Ph : 9500702114
Email : mail2pradeeppari@gmail.com

Signature of the Engineer

DESIGNAGE
CONSULTANTS PRIVATE LIMITED

FORM – C

Form of Certificate of structural soundness under sub-section (4) of section 4 of the Tamilnadu public Buildings (Licensing) Act, 1965 (Tamilnadu Act, 13 of 1965) referred to in rule 4 of the Tamilnadu public buildings (Licensing) Rules 1966).

Since the building is proposed one the certificate is not issued.

Location of the building, Door number, Street, Name of Place	Age of the building	Purpose for which the building is certified for use	The period for which the building will be structurally soundness	No. of persons to be accommodate	Remarks
	Proposed Building	Residential building with parking at basement level	50 yrs		Residential building with parking at basement level

I hereby certify that the structure is safe and Sound for the purpose for which it is intended for that to the best of my knowledge and belief today.

Signature of the Engineer

P. PRADEEP M.Tech
DTCP Reg No. CGLRGN/SE/GR-I/2019/05/007
Ph : 9500702114
Email : mail2pradeeppari@gmail.com

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SEISMIC FORCE RESISTANCE CERTIFICATE

This is to certify that the buildings to be constructed in S.F.No. 784/3& 784/4A of Kalapatty (East) Village Coimbatore North Taluka, Coimbatore Corporation is to adopt the seismic force resistance for the Proposed Construction of Building 1 .

With reference to above referred project I wish to confirm following salient features and scope of structural design;

1) The minimum size of columns and beams shall be as per relevant Indian standard codes.

2) Minimum grade of concrete as per exposure conditions as mentioned in IS 456-2000, shall be adhered to.

3) Necessary confining reinforcement in form of stirrups and links for columns and beams shall be provided to resist seismic loads as per relevant codal provisions.

ANALYSIS METHOD

The structure is analyzed for Static loads (both dead and live loads) and Lateral loads due to Earthquake/Wind loads and its combinations. Software used is E-Tabs &for foundation safe along with
Our interface software.
The structure will be modeled as 3D space frame. Floor slabs shall be modeled as membrane elements for diaphragm effect only.

DESIGN METHODOLOGY

All structural members will be designed according to the Limit State Method as specified in IS: 456-2000. Appropriate loads and its combinations, as per relevant clauses in Code IS 456:2000 Code IS 875 (Part-5) 1987, for the most unfavorable effects are chosen for design.

Limit state method is adopted for design of overhead water tanks by using IS-3370(2009)

Signature of the Engineer

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Wind Loads

The wind pressure is calculated on the basis of data furnished below and other provisions laid in IS875 (Part-3) – 2015.

Basic Wind Speed	V_b	=	47 m/sec
Risk Coefficient	K_1	=	1
Terrain, Height Factor	K_2	=	1
Terrain Category		=	II
		K_3 =	1
		K_4 =	1

Design Wind Speed (V_z)

$V_z = V_b \times K_1 \times K_2 \times K_3 \times K_4$

Where,

V_b =Basic Wind Speed

K_1 = Risk Co-efficient for different classes of structures in different wind speed zones.

K_2 = Terrain roughness & height factor.

K_3 = Topography factor.

K_4 = Importance factor for cyclonic region.

Design Wind Pressure

$Pz = 0.6Vz^2$

$Pd = Kd \times Ka \times Kc \times Pz$

Kd = Wind Directionality factor.

Ka = Area Averaging factor.

Kc= Combination factor.

Signature of the Engineer

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Earthquake Load

The loading due to earthquake is assessed as per the provisions of IS: 1893 (Part-1):2016

Seismic Zone		=	III
Soil type		=	II
Table-2	Zone factor (Z)	=	0.16
Table-6	Importance Factor (I)	=	1.0
Table-7	Response Reduction Factor (R)	=	5.0
Height of building (H)			

Height of building considered from ground floor for time period calculation.

Fundamental natural time period (Ta)

Ta(x)= 0.075H^0.75 d from CL.7.6.1– IS1893 (part – I):2016

Sa/g from FIG-2 IS 1893 (part I):2016.

Horizontal Seismic Co-Efficient

$$Ah = \frac{Z \times I \times Sa}{2 \times R \times g}$$

Dynamic analysis is performed using response reduction as per IS-1893(2016).

Signature of the Engineer

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Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

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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