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DIGITALLY VERIFIED RECORD

LOGU LOGU Associates [Regd]
◊ ENGINEERS ◊ ARCHITECTS ◊ CONSTRUCTORS

9/1, Thirunavukarasu Street,
Advaidha Ashram Road, Salem - 636 004.
Mobile : 94437 44055, 97500 44055
Email:loguassociates@gmail.com

STABILITY CERTIFICATE

DATE: 24.03.2026

(To be furnished while filing application for registration of building)

The detailed engineering and structure design of the proposed building comprising of Stilt + 5 floors at Ward – AJ, Block–44,T.S.No.7,8,9,10 Pallavan Street, Vidhya Nagar 8th cross, Salem Town Salem Taluk, Salem District.

TAMILNADU -636007 has been done by me/us based on the report of geotechnical investigation (soil test) done by Department of Technical Education, Government college of Engineering, Salem. Report No. C-1912 Dated 20.09.2024 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 M25

(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 875(part 1) 1987 and design of earthquake resistant structure as per IS Code No 875(part 2) 1987

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

Stamp and Signature
Rtn. Er. P.L. SRRINIVASAN, M.E.,
STRUCTURAL ENGINEER
LOGU ASSOCIATES (Regd)
ENGINEERS, ARCHITECTS AND CONSTRUCTORS
9/1, Thirunavukarasu Street,
Advaidha Ashram Road, SALEM-4
SCMC No: 8/2017-18 SLPA No: 38-RE-I/15-RSE-I/2019

Encl.: Structural Design Calculation

Annexure – X1V

[see rule 51 (3)]

From 1

Structural Design Basis Report

(1) This report to accompany the application for Building Developments

Part 1	General Data		
S.No	**Description**	**Information**	**Notes**
1.	Site address	Ward – AJ, Block–44, T.S.No.7,8,9,10 Pallavan Street, Vidhya Nagar 8th cross, Salem Town Salem Taluk, Salem District.	
2.	Name of owner	R. Balasubramaniam	
3.	Name of Registered Developer Along With the Registration number	NIL	
4.	Name of Registered Architect/Engineer Along With the Registration number	S. DANIESH, Registered Architect No.: CA/2022/152507	
5.	Name of Registered Structural engineer Along with the Registration number	P.L. SRRINIVASAN, Registered, Structural Engineer No.: 38/RE- 1/2019	
6.	Use of the building	Residential building	
7.	Number of stories above ground level (including stories to be added later, if any)	Silt + 5 floor	
8.	Number of basements below ground level	-	
9.	**Type of structure** Load bearing walls R.C.C. frame R.C.C. frame and shear walls Steel frame	R.C.C Frame	
10.	Soil data Type of soil Design safe bearing capacity	Silty soil, gravelly soil 10 T/M^2	IS:1893 C1.6.3.5.2 IS: 1498 IS: 1970 IS: 2720
11.	Dead loads (unit weight adopted) • Earth • Water • Brick masonry • Plain cement concrete	18 KN/M^3 10 KN/M^3 19.2 KN/M^3 24 KN/M^3 25 KN/M^3 1.2 KN/M^2	IS: 875 Part 1

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	• Reinforced cement concrete • Floor finish • Other fill materials	0 KN/M^3	
12.	Imposed (live) loads Floor loads Roof loads	 4 KN/M^2 1.5 KN/M^2	IS: 875 Part 2
13.	Cyclone/wind • Speed • Design pressure intensity	 47 M/Sec 1.54 KN/M^2	IS: 875 Part 3
14.	Seismic zone	III	IS: 1893 (2002)
15.	Importance factor	1.2	IS: 1893 (2002) Table 6
16.	Seismic zone factor(Z)	0.16	IS: 1893 Table 2
17.	Response reduction factor	5	IS: 1893 Table 7
18.	Fundamental natural period - approx.	In x – 0.160 In y – 0.31	IS: 1893 C1.7.6
19.	Design horizontal acceleration Spectrum value (Ah)	In x – 0.06 In y – 0.058	IS: 1893 C1.6.4.2
20.	Expansion/separation joints	NA	
21.	Building is regular/irregular	Regular	IS: 1893

Enclose detailed drawings drawn to scale for each floor

In case terrace garden is provided, indicate additional fill load and live load along with the detailed drawing drawn to scale.

Part 3	Reinforced concrete framed buildings		
SI.No	Description	Information	Notes
1.	Type of building • Regular frames • Regular frames with shear walls • Irregular frames • Irregular frames with shear walls • Shear wall	Regular frames	IS: 1893 C1.7.1
2.	Number of basements	-	
3.	Number of floors including ground floor	Silt + 5 floors	
4.	Horizontal floor system • Beams and slabs • Waffles • Ribbed floor • Flat slab with drops • Flat plate without drops	Beams and slabs	
5.	Soil data • Type of soil • Recommended type of foundation - Independent footings - Raft - Piles • Recommended bearing capacity of soil • Recommended type, length, diameter and load capacity of piles	 Silty soil, gravelly soil Raft/Independent footing 10 T/M^2 NA	 IS: 1498

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	• Depth water table • Chemical analysis of ground water • Chemical analysis of soil	 NA NA NA	
6.	Foundations Depth below ground level Type Independent Interconnected Raft Piles	 2.10M, 3.05 M Independent Raft	
7.	System of interconnecting Foundation Plinth beams Foundation beams	 Plinth beams	 IS: 1893 C1 7.12.1
8.	Grades if concrete used in different parts of building	M25 for All works	
9.	Method of analysis used	Static analysis	
10.	Computer software used	Staad pro	
11.	Torsion included	yes	IS: 1893 C1 7.9
12.	Base shear a. Based on approximate fundamental period b. Based on dynamic analysis c. Ratio of a/b	 In x – 0.16 In y – 0.31 NA NA	 IS: 1893 C1 7.5.3
13.	Distribution of seismic forces along the height of the building.	Refer sketch	IS:1893 C1.7.7 (provide sketch)
14.	The column of soft ground storey Specially designed.	yes	IS: 1893 C1 .7.10
15.	Clear minimum cover provided in • Footing • Column • Beams • Slab • walls	 50 mm 40 mm 30 mm 20 mm 25 mm	 IS: 456 C1.26.4
16.	Ductile detailing of RC frame • type of reinforcement used • minimum dimension of beams • minimum dimension of columns • minimum percentage of reinforcement of beams at any cross section • maximum percentage of reinforcement at any section of beam • spacing of transverse reinforcement in 2-d length of beams near the end • Ratio of capacity of beams in shear to capacity of beams in flexure	 Fe550 230 x 375 mm 230 x 450 mm (0.87/ fy) bd 0.04 bd 125 mm 0.025 4%	 IS: 456 C1.5.6 IS: 13920 C1.6.1 IS: 13920 C1.7.1.2 IS: 456 C1.26.5.1(a) IS: 13920 C1.6.2.1 IS: 456 C1.26.5.1.1(b) IS: 13920 C1.6.2.2 IS: 13920

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	• Maximum percentage of reinforcement in column • Confining stirrups near ends of column and in beam-column joints Diameter Spacing • Ratio of shear capacity of columns to maximum seismic shear in the storey	 8 mm 100 mm c/c NA	C1.6.3.5 IS: 456 C1.26.5.3.1 IS: 13920 C1.7.4
17.	Does the features require clearance by SDRP Example: high rise building Prefab building Building in hazard prone areas	NA	

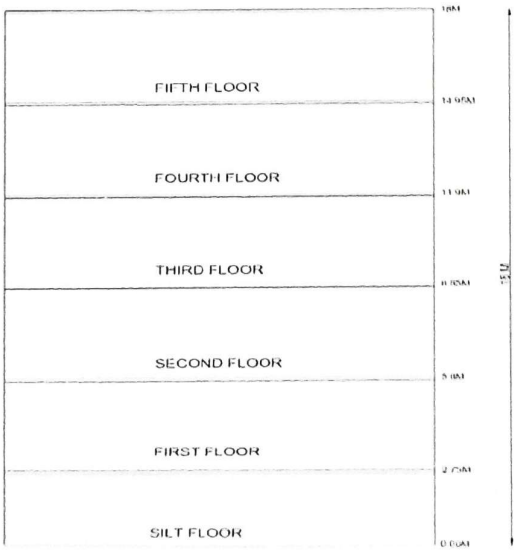
Foundation

i. In case raft foundation has been adopted, indicate k value used for analysis of the raft.
ii. Incase pile foundations have been used, give full particulars of the piles, type, Dia, length, capacity
iii. In case of high-water table, indicate system of countering water pressure, and indicate The existing water table, and that assumed to design foundations.

Idealization for Earthquake analysis

i. In case of composite system of shear walls and rigid frames, give distribution of base shear in the two systems on the basis of analysis, and that used for design of each system.
ii. Indicate the idealization of frames and shear walls adopted in the analysis with the help of sketches.
iii. Submit framing plans of each floor
iv. In case of basement, indicate the system used to contain earth pressures.

Distribution of seismic forces along the height of the building



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SCMC No: 8/2017-18 SLPA No: 38-RE-I/15-RSE-I/2010

GOVERNMENT OF TAMIL NADU

TOWN AND COUNTRY PLANNING DEPARTMENT

SALEM DTCP

THE SALEM DISTRICT TOWN AND COUNTRY PLANNING

Phone: 0427-2448625

Email: ddslmregion@gmail.com

Website: www.tn.gov.in/tcp

PROFESSIONAL REGISTRATION CERTIFICATE
RENEWED FROM 01.04.2024 TO 31.03.2029

This is to certify that **THIRU. P. L. SRINIVASAN** has enrolled as **Registered Structural Engineer Grade-I (RSE-I)** with Salem District Town and Country Planning who has the qualification of **Master of Engineering in Structural Engineering** and experience in the relevant field for 29 years.

He has been given the **Registration No:15/RSE-I/2024 (Renewal).** He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(MS) No. 18, Municipal Administration and Water Supply (MA1) Department, Dated 04.02.2019.

This Registration is valid upto **31.03.2029.**



05 AUG 2024

ASSISTANT DIRECTOR,
DISTRICT TOWN AND COUNTRY PLANNING,
SALEM DISTRICT.

5.8.24

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.