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DIGITALLY VERIFIED RECORD

ARS Consultancy Services, No. 39, 6th Cross St, Ezhil Nagar (North), Puducherry - 605 003
Mobile 97895 46862 Email : arsithanandam@yahoo.com

30.06.2026

STRUCTURAL STABILITY CERTIFICATE

The detailed engineering and structural design of the proposed building comprising of **G+5 Floors** at **R.S. No. 495/34,495/34A, 495/46 & 495/46A; Old Survey No. 15/1, Patta Nos. 2668 & 2755, Plot No. W, Millennium Garden, Vadakuthu Village and Panchayat, Kurinjipadi Panchayat Union & Taluk, Cuddalore District**, has been carried out by me based on the report of geotechnical investigation (Soil Test) conducted by **REEMA Ground Engineering Consultation LLP**, Report No. **RGEC/GTI-FR-01/12092025**, dated **12.09.2025**, and considering the functional requirements of the building.

2. It is certified that, among other factors, the proposed building has been designed to resist earthquake forces. I have checked the various structural parameters and found that the proposed building would be structurally safe.

3. I further certify that:

(i) The minimum grade of concrete adopted is **M20**.

(ii) The design and analysis have been done using the code of practice for plain and reinforced concrete as per **IS 456**, design loads as per **IS 875** and Design of earthquake resistant structure as per **IS 18936: Part1:2016**.

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

30/6/2026

Er. A. SITHANANDAM, M.E., M.I.E.,
Registered Structural Engineer Grade - 1
PPA. R. No. 3-896/PPA/LIC/SE/2016
CMDA No. SE/GR-1/19/05/134
DTCP. RSE/GR-1/VPM Dist./Aug 2020/014
No.39, 6th Cross St., Ezhil Nagar (North),
Puducherry -3, Mobile: 9789546862

STRUCTURAL DESIGN BASIS REPORT

Part 1	General Data		
S.No.	Description	Information	Notes
(1)	Address of the building • Name of the Building	**THE PROPOSED CONSTRUCTION OF R.C.C. ROOF RESIDENTIAL APPARTMENT BUILDING IN R.S.NO - 495/36, 495/44, OLD SURVEY NO - 15/1, PATTA NO - 2668, 2755, PLOT NO - W AT MILLINEUM GARDEN, VADAKUTHU VILLAGE AND PANCHAYAT,KURINJIPADI PANCHAYAT UNION AND TALUK , CUDDALORE DISTRICT.**	
(2)	Name of Registered Structural Engineer	Er. A. Sithanandam M.E.(Structural),	
(3)	Use of the building	Residential	
(4)	Number of storey's above ground level (Including storey's to be added later, if any)	GROUND + FIVE	
(5)	**Type of Structure** • Load bearing walls • R.C.C. frame • R.C.C. frame & shear walls • Steel frame	RCC Framed Structure	
(6)	**Soil data** • Type of soil • Design safe bearing capacity	SAND ISOLATED FOUNDATION	IS:1893 Cl:6.3.5.2 IS:1904
(7)	**Dead loads (unit weight adopted)** • Earth • Water • Brick masonry • Plain Cement Concrete • Reinforced Cement Concrete • Floor finish • Other fill materials • Piazza floor fill and landscape	 1600 KG/M3 1000 KG/M3 1920 KG/M3 2400 KG/M3 2500 KG/M3 2000 KG/M3 2000 KG /M3 NOT USED	 IS:875 Part 1
(8)	**Imposed (Live) loads** • Piazza floor accessible to Fire Tender • Piazza floor not accessible to Fire Tender • Floor load • Roof load	 NOT USED NOT USED 200 KG/M2 150 KG/M2	 IS:875 Part 2
(9)	Cyclone/Wind • Speed • Design pressure intensity	 50 m/s 2000 N/M2	 IS:875 Part 3
(10)	Seismic Zone	ZONE – II [IS:1893 (2016 - TABLE 3]	IS:1893 (2002)
(11)	Importance Factor	1.2 [IS:1893 (2016 - TABLE 8]	IS:1893

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			(2002) Table 6
(12)	Seismic Zone Factor (Z)	0.10 [IS:1893 (2016 - TABLE 3]	IS:1893 Table 2
(13)	Response reduction factor	3 (Ordinary Moment Resistant Frame) [IS:1893 (2016 - TABLE 9]	IS:1893 Table 7
(14)	Fundamental natural period – approximate	0.245 Sec	IS:1893 Cl.7.6
(15)	Design horizontal acceleration spectrum value (A_h)	0.0417	IS:1893 Cl.6.4.2
(16)	Expansion / Separation Joints	NIL	

Part 2	Reinforced concrete framed buildings		
S.No.	**Description**	**Information**	**Notes**
(1)	**Type of Structure** • Regular frames • Regular frames with shear wall • Irregular frames • Irregular frames with shear wall • Soft storey	Regular Frames	IS:1893 Cl.7.1
(2)	Number of basements	Nil	
(3)	Number of floors including ground floor	SIX	
(4)	**Horizontal floor system** • Beam and Slabs • Waffles • Ribbed Floor • Flat slab with drop • Flat plats without drops	Beam 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 • Depth of Water table • Chemical analysis of ground water • Chemical analysis of soil	Isolated Foundation as recommended in the soil report.	IS:1498

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(6)	**Foundations** • Depth below ground level • Type - Independent - Interconnected - Raft - Piles	ISOLATED FOUNDATION 2.0M	
(7)	**System of interconnecting foundations** • Plinth beams • Foundation beams	Plinth beams – 230 x 150 mm	IS:1893 Cl.7.12.1
(8)	Grades of concrete used in different parts of building	M20	
(9)	Method of analysis used	P delta Analysis	
(10)	Computer software used	STAAD V8i - Software	
(11)	Base shear a. Based on approximate fundamental period b. Based on dynamic analysis c. Ratio of a/b	 2418kN [IS:1893 (2016) – CL7.6.1] N/A 2.6	IS:1893 Cl.7.5.3
(12)	Distribution of seismic forces along the height of the building	Included in the 3D Analysis [IS:1893 (2016) – CL7.6.3]	IS:1893 Cl.7.7
(13)	The column of soft ground storey specially designed	N/A	IS:1893 Cl.7.10
(14)	Clear minimum cover provided in • Foundation • Column • Beams • Slabs	 50mm 30mm 25mm 20mm	
(15)	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 of 2-d length of beams near the ends • Ratio of capacity of beams in shear to capacity of beams in flexure • Maximum percentage of reinforcement in column • Confining stirrups near ends of columns and in beam column joints a) Diameter b) Spacing • Ratio of shear capacity of columns to maximum seismic shear in the storey	 Fe 550 230 x 450 300 x 300 0.25% 2% 100mm 1.25 2.14% 8mm 175 mm 0.9	 IS:456 Cl.5.6 IS:13920 Cl.6.1 IS:13920 Cl.7.1.2 IS:456 Cl.26.5.1(a) IS:13920 Cl.6.2.1 IS:456 Cl.26.5.1.1(b) IS:13920 Cl.6.2.2 IS:13920 Cl.6.3.5 IS:456 Cl.26.5.3.1 IS:13920 Cl.7.4

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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.