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DIGITALLY VERIFIED RECORD

C.KANNAN, M.E. (Structure)
STRUCTURAL ENGINEER

Door .21, plot No. 257- W, Flat No. 2B
"Utopia Apartments" 2nd Floor,
4th Main Road, Indira Nagar,
Chennai- 600 020
Mobile: 9841249815
Email: kannankds2007@gmail.com

09-06-2026

STRUCTURAL STABILITY CERTIFICATE

The detailed engineering and structure design of the Proposed Residential Building comprising of Stilt Floor Part With Pit Stack Parking / Ground Floor Part + 5 Floors Residential Cum Commercial Building(Office at Gf Part And 1st Floor Part) With Height - 18.30 M With 10 Dwelling Units Availing Premium Fsi With Tod Benefit at old Door No.8 & old Door No.1, New Door No.17 & New Door No.1, Sivaganaga Road & Seetha Nagar 1st Street, Seetha Nagar, Nungamabakkam, Chennai Comprised In Old S.No.340, R.S.No.532/3, Block No.29 of Nungamabakkam Village, Egmore Taluk Within The Limits of Greater Chennai Corporation, has been done based on the report of geotechnical investigation (soil test) done by **Geo Engineering Consultants & Services** Report No: **GECS-JC-GT-3341-2025-2026** 2026 dated: **31/10/2025** and considering the functional requirement of the building.

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

2. I 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-875 Part I to III and design of earthquake resistant structure as per one code IS 1893, is carried out.

The Structure is safe and sound when used for the purpose for which it is designed.

C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

PROPOSED RESIDENTIAL BUILDING COMPRISING OF STILT FLOOR PART WITH PIT STACK PARKING / GROUND FLOOR PART + 5 FLOORS RESIDENTIAL CUM COMMERCIAL BUILDING(OFFICE AT GF PART AND 1ST FLOOR PART) WITH HEIGHT - 18.30 M WITH 10 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO.8 & OLD DOOR NO.1, NEW DOOR NO.17 & NEW DOOR NO.1, SIVAGANAGA ROAD & SEETHA NAGAR 1ST STREET, SEETHA NAGAR, NUNGAMABAKKAM, CHENNAI COMPRISED IN OLD S.NO.340, R.S.NO.532/3, BLOCK NO.29 OF NUNGAMABAKKAM VILLAGE, EGMORE TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

GENERAL NOTE ON STRUCTURAL DESIGN

1.0 GENERAL

1.1 DESIGN BASIS

The proposed Commercial cum residential building consists of having stilt plus five upper floors.

The design of this building is carried out based on frame analysis using STAAD CONNECT.

1.2 CODES AND STANDARDS

All structural design is carried out conforming to the provisions of National Building Code of India and other relevant Indian Codes and Standards.

1. I.S. 456 - 2000
2. I.S. 875 - Part I to III
3. I.S.1893 - 2016

2.0 BASIC CIVIL DESIGN LOADS

2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Self weight of slab	=	6.25kN/m²
Floor finish	=	2.0kN/m²
Live load	=	5.0kN/m²
		14.25kN/m²

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3.0 SOIL DETAILS

Based on soil test report Pile Foundation is adopted.

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

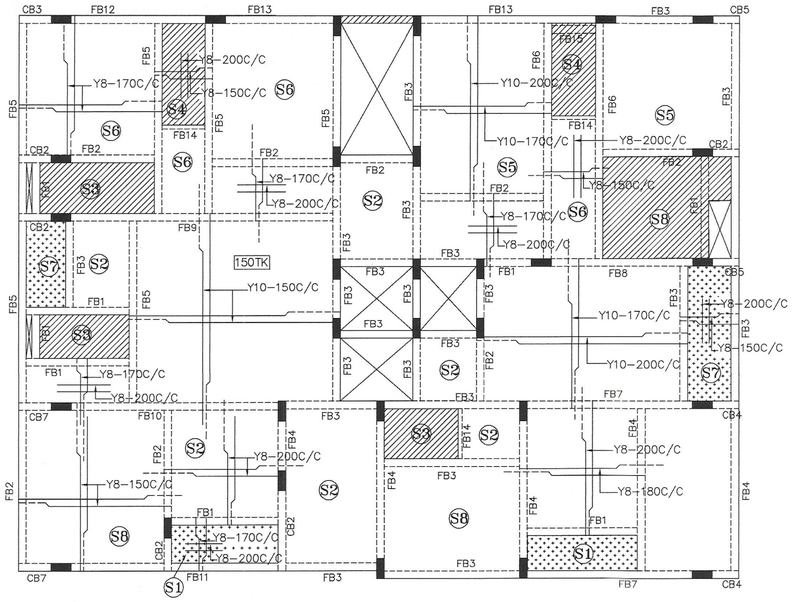
Load Combination	Ultimate Limit Load	Serviceability Limit State
DL+LL+WL Or DL+LL+EL	1.2DL+1.2LL+1.2WL Or 1.2DL+1.2LL+1.2EL	DL+LL+WL or DL+LL+EL

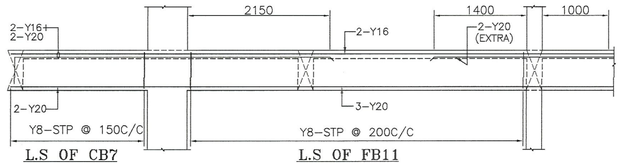
4.3 **MINIMUM COVER**

Slab	15 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

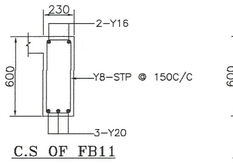
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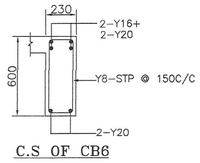




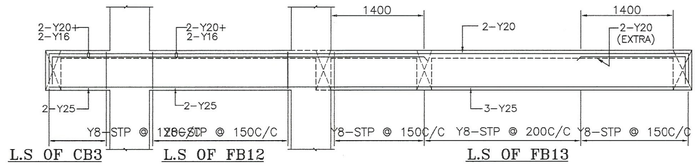
L.S OF CB7 L.S OF FB11



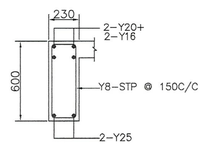
C.S OF FB11



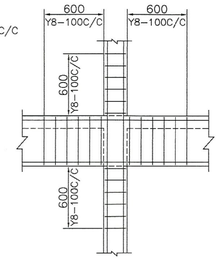
C.S OF CB6



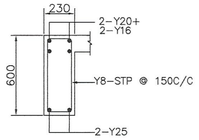
L.S OF CB3 L.S OF FB12 L.S OF FB13



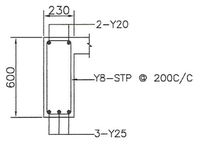
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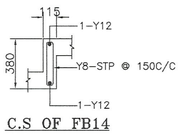
TYP. SEC. FOR STP. DETAILS



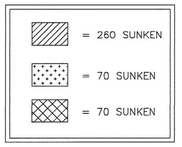
C.S OF FB12



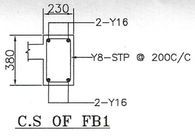
C.S OF FB13



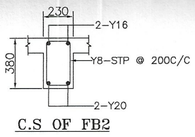
C.S OF FB14



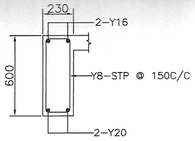
ALL SLABS ARE 120TK UNLESS SPECIFIED



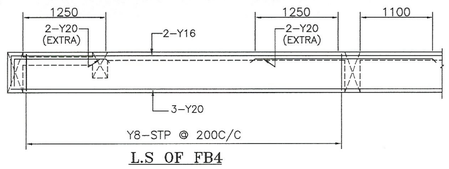
C.S OF FB1



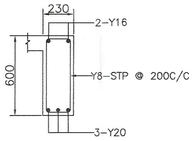
C.S OF FB2



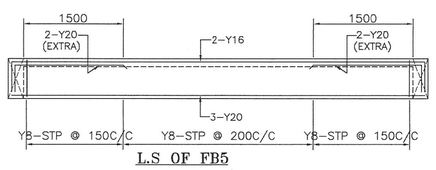
C.S OF FB3



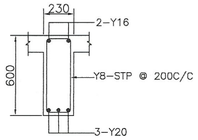
L.S OF FB4



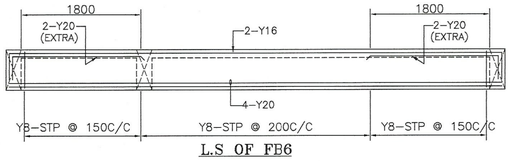
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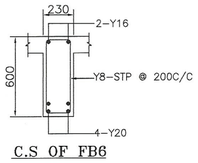
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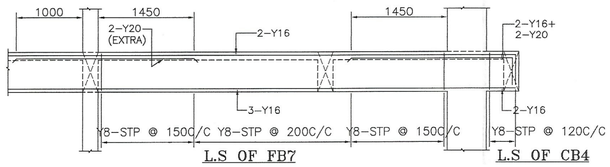
C.S OF FB5



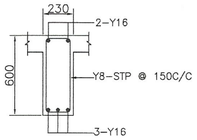
L.S OF FB6



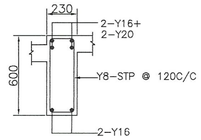
C.S OF FB6



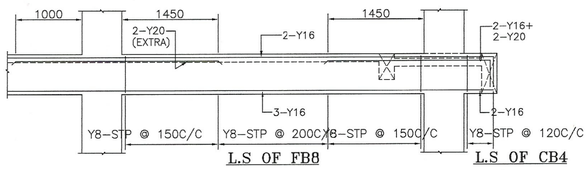
L.S OF FB7 L.S OF CB4



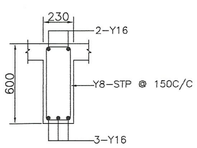
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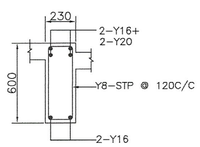
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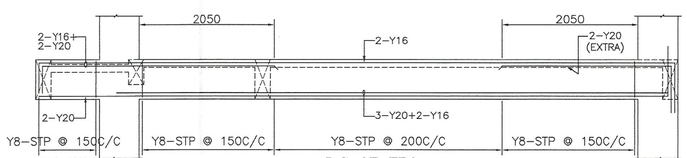
L.S OF FB8 L.S OF CB4



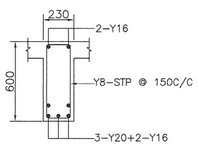
C.S OF FB8



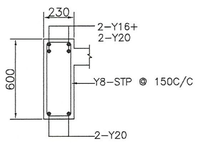
C.S OF CB5



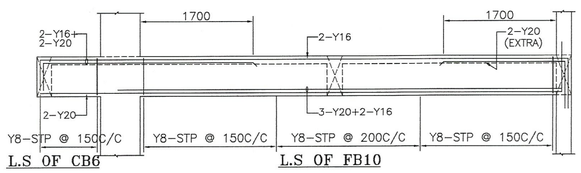
L.S OF CB2 L.S OF FB9



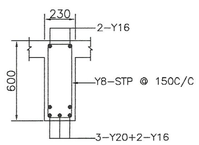
C.S OF FB9



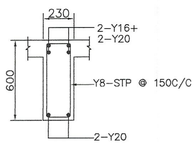
C.S OF CB2



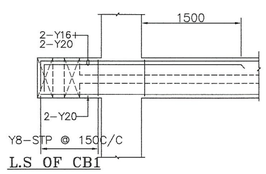
L.S OF CB6 L.S OF FB10



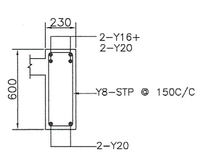
C.S OF FB10



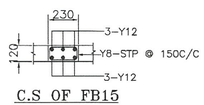
C.S OF CB6



L.S OF CB1



C.S OF CB1



C.S OF FB15

Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M30 for column & M25 for all other R.C.C works
3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 1985. Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. —— Bottom Reinforcement
7. ----- Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for Stilt plus five upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893–2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'–0") – 7 days
    b. Slabs spanning over 4.5 m (15'–0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'–0") –14days
    d. Beams and Arches spanning over 6 m (20'–0") –21days

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT DOOR NO: 17/8,SIVAGANGA ROAD, SEETHA NAGAR 1ST, NUNGAMBAKKAM, CHENNAI–600034 WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION.

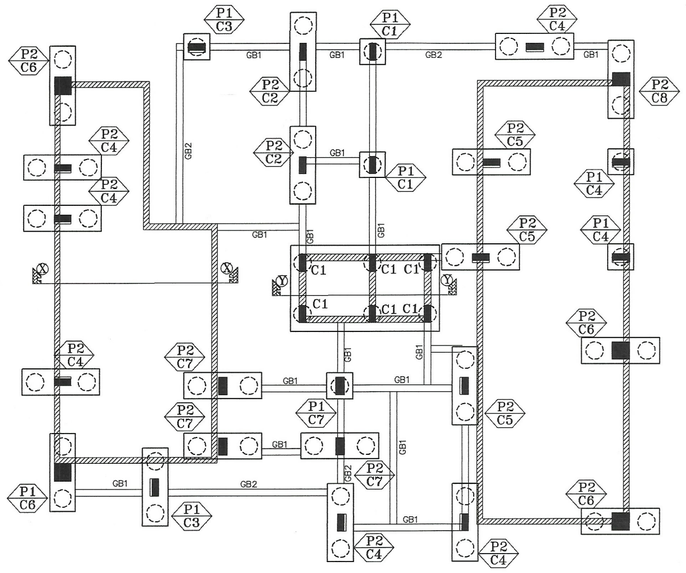
TYPICAL FLOOR ROOF DETAIL

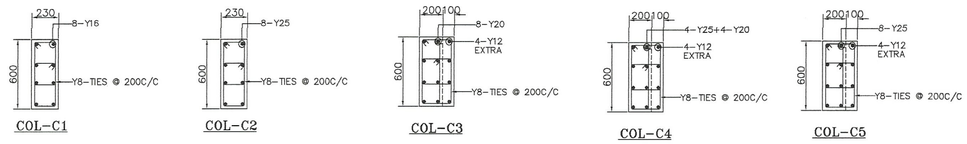
DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	SEETHA BALAJI		DATE	09–06–2026

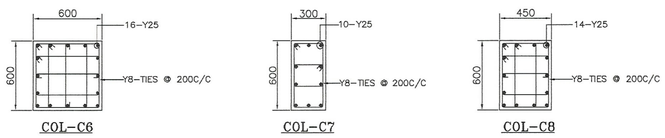
STRUCTURAL CONSULTANTS:

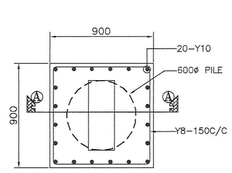
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CMDA Reg. No: SE/I/2024/2/0047
C.KANNAN, DOOR NO.21, 4th Main Road,
Indira Nagar, Chennai - 600 020.
DOOR NO:21, 4TH MAIN ROAD,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

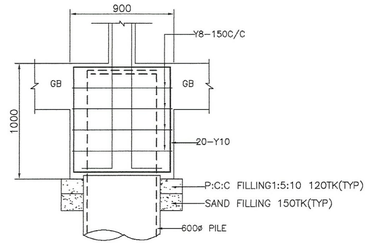
FILE NAME : D/SEETHA/2018–2020/

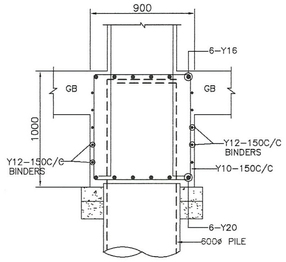


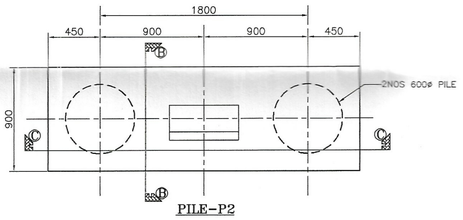


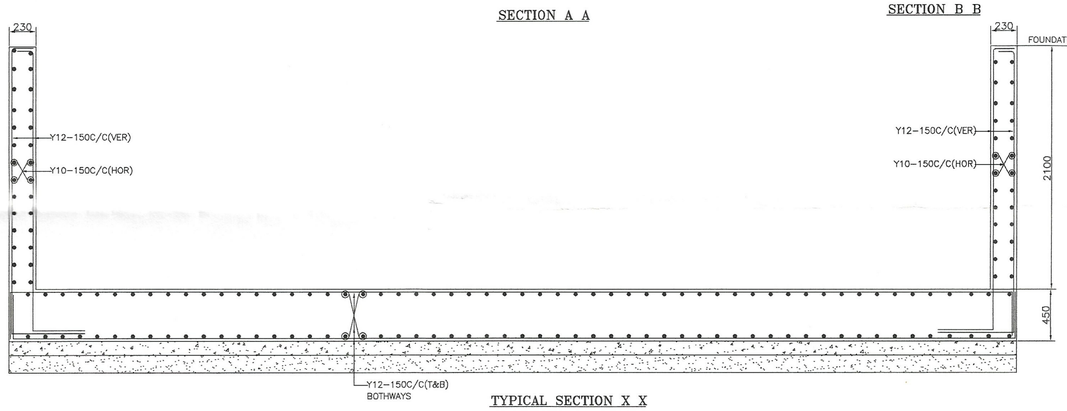


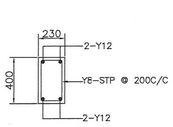


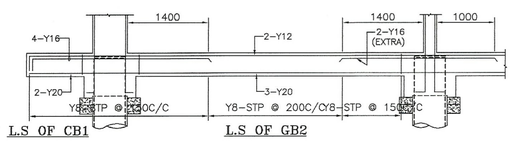


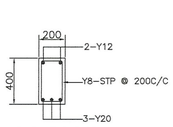


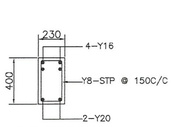


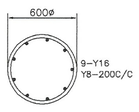


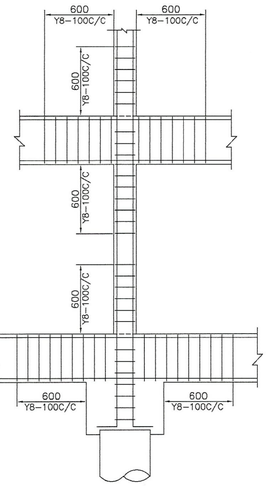


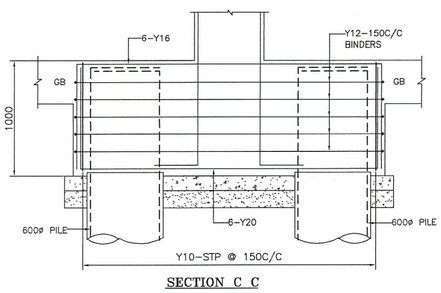


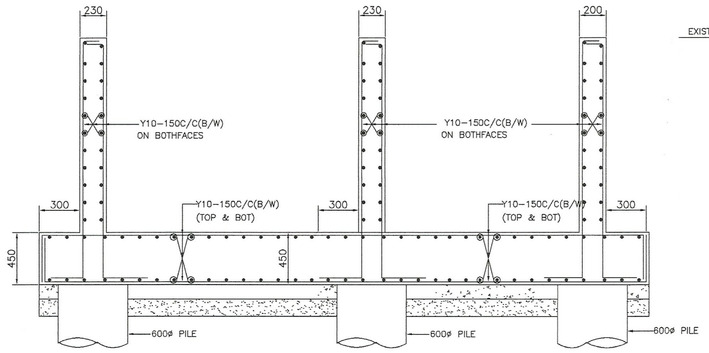


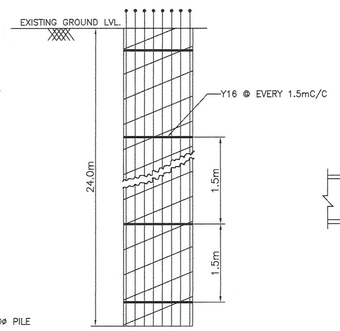












TYP. SEC. FOR
STP. DETAILS

Notes:–

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M30 for column & M25 for all other R.C.C works
   Grade of pile elements shall be M30 with minimum cement content 400 kg/m3
3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 2008.
   Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. ——— Bottom Reinforcement
7. ------ Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for Stilt plus five upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893–2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'–0") – 7 days
    b. Slabs spanning over 4.5 m (15'–0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'–0") –14days
    d. Beams and Arches spanning over 6 m (20'–0") –21days

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT DOOR NO: 17/8,SIVAGANGA ROAD, SEETHA NAGAR 1ST, NUNGAMBAKKAM, CHENNAI–600034 WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION.

FOUNDATION DETAIL

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	SEETHA BALAJI		DATE	09–06–2026

STRUCTURAL CONSULTANTS:

C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,
CMDA Reg. No. SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

FILE NAME : D/SEETHA/2018–2020/

CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
Thalamuthu Natarajan Building, No.1, Gandhi Irwin Road, Egmore,
Chennai - 600 008
Phone : 28414855 Fax: 91-044-28548416
E-mail: mscmda@tn.gov.in
Web site: www.cmdachennai.gov.in.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the Thiru / Tmt. / M/s. **C.KANNAN** has enrolled as **Registered Structural Engineer Grade-I(SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.E Structures** and experience in the relevant field for **15** years.

He/She has been given the Registration No. **SE/I/2024/2/0047** on **28-Feb-2024** He/She 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 MAWS (MA1) Dept. Dated. 04.02.2019.

This Registration is valid upto **27-Feb-2029**.

Validity unknown
Name :A Meganathan
Designation :Superintendent
Date :02/28/2024 12:50:37 PM



A Meganathan

Superintendent

C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

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

Verified RealEstate
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

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.