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Chennai 600 097, India

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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

10-11-2025

STRUCTURAL STABILITY CERTIFICATE

To be furnished while filling application for resignation of the building

The detailed engineering and structure design of the Proposed Residential Building comprising of Stilt Floor (For Parking Use) + 13 Floors With 52 Dwelling Units (With Height 42m New Door No.231 & 232, Old Door No. 293 & 294 abutting thiruvottiyur High Road Comprised In T.S. No. 3659/1 (Part) & 3661/1 (Part), Block No.54 of Tondiarpet Village, Tondiarpet Taluk Within The Limits Of Greater Chennai Corporation, has been done based on the report of geotechnical investigation (soil test) done by Geo Foundations & Structures Pvt Ltd Report No: 1770 dated: 19.09.2024 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 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-875 Part I to III and design of earthquake resistant structure as per one code IS 1893, is carried out.

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

Stamp and signature
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.

Encl: structural design calculation

PROPOSED RESIDENTIAL BUILDING AT NEW DOOR NO.231 & 232, OLD DOOR NO. 293 & 294 ABUTTING THIRUVOTTIYUR HIGH ROAD COMPRISED IN T.S. NO. 3659/1 (PART) & 3661/1 (PART), BLOCK NO.54 OF TONDIARPET VILLAGE, TONDIARPET TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

GENERAL NOTE ON STRUCTURAL DESIGN

1.0 GENERAL

1.1 DESIGN BASIS

The proposed residential building consists of Stilt plus Thirteen 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	=	3.25kN/m²
Floor finish	=	2.0kN/m²
Live load	=	2.0kN/m²
		7.25kN/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

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

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```
**************************************************
*                                                *
*          STAAD.Pro CONNECT Edition             *
*          Version  22.12.00.142                 *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    NOV 11, 2025                 *
*          Time=    11:27:39                     *
*                                                *
*  Licensed to: C.Kannan                         *
**************************************************
```

```
     1. STAAD SPACE
INPUT FILE: D:\AGAN\4.STABILITY\VOORA-AGASTYAR TRUST TONDIARPET\Staad\V.. .STD
     2. START JOB INFORMATION
     3. ENGINEER DATE 11/10/2025
     4. JOB NAME PROPOSED RESIDENTIAL BUILDING COMPRISING OF STILT FLOOR (FOR -
     5. PARKING USE) + 13 FLOORS WITH 52 DWELLING UNITS (WITH HEIGHT 42M NEW DOOR -
     6. NO.231 & 232, OLD DOOR NO. 293 & 294 ABUTTING THIRUVOTTIYUR HIGH ROAD -
     7. COMPRISED IN T.S. NO. 3659/1 (PART) & 3661/1 (PART), BLOCK NO.54 OF -
     8. TONDIARPET VILLAGE, TONDIARPET TALUK WITHIN THE LIMITS OF GREATER CHENNAI -
     9. CORPORATION
    10. ENGINEER NAME KANNAN
    11. CHECKER NAME KANNAN
    12. APPROVED NAME KANNAN
    13. CHECKER DATE 11/10/2025
    14. APPROVED DATE 11/10/2025
    15. END JOB INFORMATION
    16. INPUT WIDTH 79
    17. SET NL 250
    18. UNIT MMS KN
    19. JOINT COORDINATES
    20. 1 0 0 0; 2 3700.2 0 0; 3 7100.1 8.4E-15 0; 4 11050.3 0 0; 5 0 -2000 0
    21. 6 3700.2 -2000 0; 7 7100.1 -2000 0; 8 11050.3 -2000 0; 9 0 3000 0
    22. 10 3700.2 3000 0; 11 7100.1 3000 0; 12 11050.3 3000 0; 13 0 6000 0
    23. 14 3700.2 6000 0; 15 7100.1 6000 0; 16 11050.3 6000 0; 17 0 9000 0
    24. 18 3700.2 9000 0; 19 7100.1 9000 0; 20 11050.3 9000 0; 21 0 12000 0
    25. 22 3700.2 12000 0; 23 7100.1 12000 0; 24 11050.3 12000 0; 25 0 15000 0
    26. 26 3700.2 15000 0; 27 7100.1 15000 0; 28 11050.3 15000 0; 29 0 18000 0
    27. 30 3700.2 18000 0; 31 7100.1 18000 0; 32 11050.3 18000 0; 33 0 21000 0
    28. 34 3700.2 21000 0; 35 7100.1 21000 0; 36 11050.3 21000 0; 37 0 24000 0
    29. 38 3700.2 24000 0; 39 7100.1 24000 0; 40 11050.3 24000 0; 41 0 27000 0
    30. 42 3700.2 27000 0; 43 7100.1 27000 0; 44 11050.3 27000 0; 45 0 30000 0
    31. 46 3700.2 30000 0; 47 7100.1 30000 0; 48 11050.3 30000 0; 49 0 33000 0
    32. 50 3700.2 33000 0; 51 7100.1 33000 0; 52 11050.3 33000 0; 53 0 36000 0
    33. 54 3700.2 36000 0; 55 7100.1 36000 0; 56 11050.3 36000 0; 57 0 39000 0
    34. 58 3700.2 39000 0; 59 7100.1 39000 0; 60 11050.3 39000 0; 61 0 42000 0
    35. 62 3700.2 42000 0; 63 7100.1 42000 0; 64 11050.3 42000 0
    36. MEMBER INCIDENCES
    37. 1 1 2; 2 2 3; 3 3 4; 4 9 10; 5 10 11; 6 11 12; 7 13 14; 8 14 15; 9 15 16
    38. 10 17 18; 11 18 19; 12 19 20; 13 21 22; 14 22 23; 15 23 24; 16 25 26; 17 26 27
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39. 18 27 28; 19 29 30; 20 30 31; 21 31 32; 22 33 34; 23 34 35; 24 35 36; 25 37 38
40. 26 38 39; 27 39 40; 28 41 42; 29 42 43; 30 43 44; 31 45 46; 32 46 47; 33 47 48
41. 34 49 50; 35 50 51; 36 51 52; 37 53 54; 38 54 55; 39 55 56; 40 57 58; 41 58 59
42. 42 59 60; 43 61 62; 44 62 63; 45 63 64; 46 5 1; 47 1 9; 48 9 13; 49 13 17
43. 50 17 21; 51 21 25; 52 25 29; 53 29 33; 54 33 37; 55 37 41; 56 41 45; 57 45 49
44. 58 49 53; 59 53 57; 60 57 61; 61 6 2; 62 2 10; 63 10 14; 64 14 18; 65 18 22
45. 66 22 26; 67 26 30; 68 30 34; 69 34 38; 70 38 42; 71 42 46; 72 46 50; 73 50 54
46. 74 54 58; 75 58 62; 76 7 3; 77 3 11; 78 11 15; 79 15 19; 80 19 23; 81 23 27
47. 82 27 31; 83 31 35; 84 35 39; 85 39 43; 86 43 47; 87 47 51; 88 51 55; 89 55 59
48. 90 59 63; 91 8 4; 92 4 12; 93 12 16; 94 16 20; 95 20 24; 96 24 28; 97 28 32
49. 98 32 36; 99 36 40; 100 40 44; 101 44 48; 102 48 52; 103 52 56; 104 56 60
50. 105 60 64
51. UNIT METER KN
52. DEFINE MATERIAL START
53. ISOTROPIC CONCRETE
54. E 2.17185E+07
55. POISSON 0.17
56. DENSITY 23.5616
57. ALPHA 1E-05
58. DAMP 0.05
59. G 9.28139E+06
60. TYPE CONCRETE
61. STRENGTH FCU 27579
62. END DEFINE MATERIAL
63. MEMBER PROPERTY
64. 46 TO 105 PRIS YD 0.6 ZD 0.2
65. 1 TO 45 PRIS YD 0.6 ZD 0.2
66. CONSTANTS
67. MATERIAL CONCRETE ALL
68. UNIT MMS KN
69. SUPPORTS
70. 5 TO 8 FIXED
71. UNIT METER KN
72. DEFINE WIND LOAD

*** NOTE: If any floor diaphragm is present in the model Wind Load definition
          should be defined after Floor Diaphragm definition. Otherwise wind
          load generation may be unsuccessful during analysis.

73. TYPE 1 WIND 1
74. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
75. CUSTOM:PARAMS
76. !> END GENERATED DATA BLOCK
77. INT 1.22 1.35 1.48 1.51 1.64 1.77 1.8 1.83 HEIG  10  15  20  25  30  35  40  42
78. EXP 1 JOINT 1 TO 64
79. DEFINE IS1893 2016 LOAD
80. ZONE 0.16 RF 5 I 1.2 SS 1 ST 1 DM 0.05 DT 2
81. SELFWEIGHT 1
82. MEMBER WEIGHT
83. 1 TO 45 UNI 12 0 0
84. 1 TO 45 UNI 25 0 0
85. LOAD 1 LOADTYPE SEISMIC-H  TITLE EQX
86. 1893 LOAD X 1
```

```
 87. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQX
 88. 1893 LOAD X -1.
 89. LOAD 3 LOADTYPE SEISMIC-V  TITLE EQZ
 90. 1893 LOAD Z 1
 91. LOAD 4 LOADTYPE SEISMIC-V  TITLE EQZ
 92. 1893 LOAD Z -1.
 93. LOAD 5 LOADTYPE WIND  TITLE WIND +X
 94. WIND LOAD X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
 95. LOAD 6 LOADTYPE WIND  TITLE WIND -X
 96. WIND LOAD -X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
 97. LOAD 7 LOADTYPE WIND  TITLE WIND +Z
 98. WIND LOAD Z 1 TYPE 1
 99. LOAD 8 LOADTYPE WIND  TITLE WIND -Z
100. WIND LOAD -Z 1 TYPE 1
101. LOAD 9 LOADTYPE LIVE  TITLE L.L
102. MEMBER LOAD
103. 1 TO 45 UNI GY -12
104. LOAD 10 LOADTYPE DEAD  TITLE D.L
105. SELFWEIGHT Y -1 LIST ALL
106. MEMBER LOAD
107. 1 TO 45 UNI GY -25
108. LOAD COMB 11 1.5(DL+IL)
109. 9 1.5 10 1.5
110. LOAD COMB 12 1.2(DL+IL+ELX)
111. 9 1.5 10 1.2 1 1.2
112. LOAD COMB 13 1.2(DL+IL-ELX)
113. 9 1.2 10 1.2 2 1.2
114. LOAD COMB 14 1.2(DL+IL+ELZ)
115. 9 1.2 10 1.2 3 1.2
116. LOAD COMB 15 1.2(DL+IL-ELZ)
117. 9 1.2 10 1.2 4 1.2
118. LOAD COMB 16 1.2(DL+IL+WLX)
119. 9 1.2 10 1.2 5 1.2
```

STAAD SPACE -- PAGE NO. 4

```
120. LOAD COMB 17 1.2(DL+IL-WLX)
121. 10 1.2 6 1.2
122. LOAD COMB 18 1.2(DL+IL+WLZ)
123. 9 1.2 10 1.2 7 1.2
124. LOAD COMB 19 1.2(DL+IL-WLZ)
125. 9 1.2 10 1.2 8 1.2
126. LOAD COMB 20 1.5(DL+ELX)
127. 9 1.5 10 1.5 1 1.5
128. LOAD COMB 21 1.5(DL-ELX)
129. 9 1.5 10 1.5 2 1.5
130. LOAD COMB 22 1.5(DL+ELZ)
131. 9 1.5 10 1.5 3 1.5
132. LOAD COMB 23 1.5(DL-ELZ)
133. 10 1.5 4 1.5
134. LOAD COMB 24 1.5(DL+WLX)
135. 10 1.5 5 1.5
136. LOAD COMB 25 1.5(DL-WLX)
137. 10 1.5 6 1.5
138. LOAD COMB 26 1.5(DL+WLZ)
139. 10 1.5 7 1.5
140. LOAD COMB 27 1.5(DL-WLZ)
141. 10 1.5 8 1.5
142. LOAD COMB 28 0.9 DL+ELX
143. 10 0.9 1 1.5
144. LOAD COMB 29 0.9 DL-ELX
145. 10 0.9 2 1.5
146. LOAD COMB 30 0.9 DL+ELZ
147. 10 0.9 3 1.5
148. LOAD COMB 31 0.9 DL-ELZ
149. 10 0.9 4 1.5
150. LOAD COMB 32 0.9 DL+WLX
151. 10 0.9 5 1.5
152. LOAD COMB 33 0.9 DL-WLX
153. 10 0.9 6 1.5
154. LOAD COMB 34 0.9 DL+WLZ
155. 10 0.9 7 1.5
156. LOAD COMB 35 0.9 DL-WLZ
157. 10 0.9 8 1.5
158. PERFORM ANALYSIS PRINT ALL
```

P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	64	NUMBER OF MEMBERS	105
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	4

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

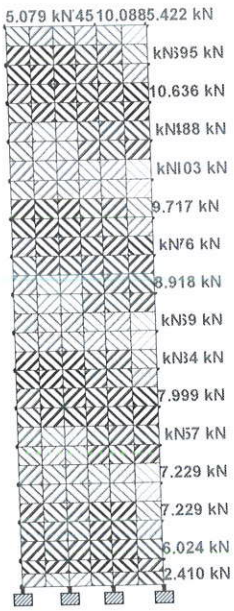
C. KANNAN, B.E., M.E, (Structure)
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Y
Z X

Load 1

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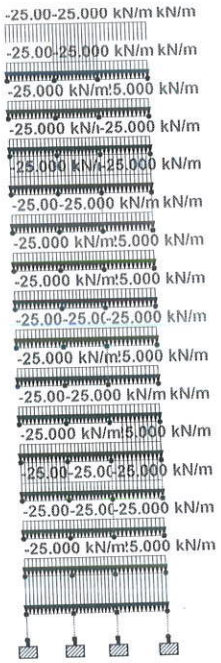

5.079 kN
45
10.088
5.422 kN
kN
95 kN
10.636 kN
kN
88 kN
kN
03 kN
9.717 kN
kN
76 kN
8.918 kN
kN
9 kN
kN
4 kN
7.999 kN
kN
7 kN
7.229 kN
7.229 kN
6.024 kN
2.410 kN


Y
Z
X

Load 7


-12.00-12.000 kN/m kN/m
-12.00-12.000 kN/m kN/m
-12.000 kN/m 2.000 kN/m
-12.000 kN/-12.000 kN/m
-12.000 kN/-12.000 kN/m
-12.00-12.000 kN/m kN/m
-12.000 kN/m 2.000 kN/m
-12.000 kN/m 2.000 kN/m
-12.00-12.00-12.000 kN/m
-12.000 kN/m 2.000 kN/m
-12.00-12.000 kN/m kN/m
-12.000 kN/m 2.000 kN/m
-12.00-12.00-12.000 kN/m
-12.00-12.00-12.000 kN/m
-12.000 kN/m 2.000 kN/m
Y
Z X

Load 9





Load 10

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CMDA Reg. No: SE/I/2024/2/0047
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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.