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Verified RealEstate™
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India

hello@verified.realestate
+91 9996 12 9996
verified.realestate

DIGITALLY VERIFIED RECORD

Dr. ALEX JACOB
B.E., M.Tech (Str)., Ph.D (Hon)., Dip. Bdg.Sc(Aust)., M.I.E.(Aust), M.I.E.(Ind)
CONSULTING ENGINEER
Old No.41/A, New No. 70, Beach Road, Kalakshetra Colony,
Besant Nagar, Chennai - 600 090.

Phone { Off : 044 - 24910945
044 - 24464478
Mob : +91-98401-59550
E-mail: alexjacobuc@gmail.com
alexjacob@unitedconsultants.in
Web : www.unitedconsultants.in

09.01.2025

STABILITY CERTIFICATE

It is certified that the Proposed construction of Stilt Floor + 5 Floors Residential Building (Height-18.30m) with 14 Dwelling Units availing Premium FSI at Old Door No.5, New Door No.9, Thirumoorthy Street, T.Nagar, Chennai Comprised in T.S.No.6974, Block No.108-B of T.Nagar Village within the limits of Greater Chennai Corporation, is designed to resist earth quake. Check has been made and found safe and I hereby certify that,

1. The minimum grade of concrete is M 25.

2. The design and analysis using the Code of Practice for Plain and Reinforced concrete as per IS 456, Design Loads as per IS-875 Part I to V and Design of Earthquake Resistant Structures as per IS 1893 are carried out.

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

(Dr.ALEX JACOB)
Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT-18.30M) WITH 14 DWELLING UNITS AVAILING PREMIUM FSI AT OLD DOOR NO.5, NEW DOOR NO.9, THIRUMOORTHY STREET, T.NAGAR, CHENNAI COMPRISED IN T.S.NO.6974, BLOCK NO.108-B OF T.NAGAR VILLAGE WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

GENERAL NOTE ON STRUCTURAL DESIGN

1.0 GENERAL

1.1 DESIGN BASIS

The design of this building is carried out based on frame analysis using STAAD Pro V8i.

1.2 CODES AND STANDARDS

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

1. I.S. 456
2. I.S. 875 - Part I to V
3. I.S.1893
4. I.S.13920
5. I.S.800

2.0 BASIC CIVIL DESIGN LOADS

2.0 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Residential Building

Self weight of slab	=	2.0kN/m²
Floor finish	=	2.0kN/m²
Live load	=	3.0kN/m²
		7.0kN/m²

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3.0 SOIL DETAILS

Based on Soil Test Report Pile Foundation is adopted.

4.0 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

-

4.2.1 MINIMUM COVER

Slab	20 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

Structure will be sound and stable when used for the purpose for which it is designed.

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M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
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CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

```
*****************************************************
*                                                   *
*          STAAD.Pro CONNECT Edition                *
*          Version  22.12.00.142                    *
*          Proprietary Program of                   *
*          Bentley Systems, Inc.                    *
*          Date=    JAN  9, 2025                    *
*          Time=    15:15:21                        *
*                                                   *
*  Licensed to: United Consultanta                  *
*****************************************************
```

```
    1. STAAD SPACE
INPUT FILE: D:\HARIHARAN V\STABILITY REPORT\SKYLINE, T.NAGAR\THE PROPOSED (G+5) RESIDENTITAL BUILDING .. .STD
    2. START JOB INFORMATION
    3. JOB NAME THE PROPOSED (G+5) RESIDENTITAL BUILDING IN T.NAGAR, CHENNAI
    4. JOB CLIENT SKYLINE
    5. JOB NO AJ-3547
    6. ENGINEER NAME HARIHARAN. V
    7. CHECKER NAME DR. ALEX JACOB
    8. ENGINEER DATE 09-JAN-25
    9. END JOB INFORMATION
   10. INPUT WIDTH 79
   11. UNIT METER KN
   12. JOINT COORDINATES
   13. 2 1.36 0 0; 3 4.49 0 0; 4 7.83 0 0; 5 11.84 0 0; 6 14.2 0 0; 7 19.44 0 0
   14. 8 23.09 0 0; 9 26.64 0 0; 10 0 3.2 0; 11 1.36 3.2 0; 12 4.49 3.2 0
   15. 13 7.83 3.2 0; 14 11.84 3.2 0; 15 14.2 3.2 0; 16 19.44 3.2 0; 17 23.09 3.2 0
   16. 18 26.64 3.2 0; 19 0 6.4 0; 20 1.36 6.4 0; 21 4.49 6.4 0; 22 7.83 6.4 0
   17. 23 11.84 6.4 0; 24 14.2 6.4 0; 25 19.44 6.4 0; 26 23.09 6.4 0; 27 26.64 6.4 0
   18. 28 0 9.6 0; 29 1.36 9.6 0; 30 4.49 9.6 0; 31 7.83 9.6 0; 32 11.84 9.6 0
   19. 33 14.2 9.6 0; 34 19.44 9.6 0; 35 23.09 9.6 0; 36 26.64 9.6 0; 37 0 12.8 0
   20. 38 1.36 12.8 0; 39 4.49 12.8 0; 40 7.83 12.8 0; 41 11.84 12.8 0
   21. 42 14.2 12.8 0; 43 19.44 12.8 0; 44 23.09 12.8 0; 45 26.64 12.8 0; 46 0 16 0
   22. 47 1.36 16 0; 48 4.49 16 0; 49 7.83 16 0; 50 11.84 16 0; 51 14.2 16 0
   23. 52 19.44 16 0; 53 23.09 16 0; 54 26.64 16 0; 55 0 19.2 0; 56 1.36 19.2 0
   24. 57 4.49 19.2 0; 58 7.83 19.2 0; 59 11.84 19.2 0; 60 14.2 19.2 0
   25. 61 19.44 19.2 0; 62 23.09 19.2 0; 63 26.64 19.2 0
   26. MEMBER INCIDENCES
   27. 10 2 11; 11 3 12; 12 4 13; 13 5 14; 14 6 15; 15 7 16; 16 8 17; 17 9 18
   28. 18 10 11; 19 11 12; 20 12 13; 21 13 14; 22 14 15; 23 15 16; 24 16 17; 25 17 18
   29. 27 11 20; 28 12 21; 29 13 22; 30 14 23; 31 15 24; 32 16 25; 33 17 26; 34 18 27
   30. 35 19 20; 36 20 21; 37 21 22; 38 22 23; 39 23 24; 40 24 25; 41 25 26; 42 26 27
   31. 44 20 29; 45 21 30; 46 22 31; 47 23 32; 48 24 33; 49 25 34; 50 26 35; 51 27 36
   32. 52 28 29; 53 29 30; 54 30 31; 55 31 32; 56 32 33; 57 33 34; 58 34 35; 59 35 36
   33. 61 29 38; 62 30 39; 63 31 40; 64 32 41; 65 33 42; 66 34 43; 67 35 44; 68 36 45
   34. 69 37 38; 70 38 39; 71 39 40; 72 40 41; 73 41 42; 74 42 43; 75 43 44; 76 44 45
   35. 78 38 47; 79 39 48; 80 40 49; 81 41 50; 82 42 51; 83 43 52; 84 44 53; 85 45 54
   36. 86 46 47; 87 47 48; 88 48 49; 89 49 50; 90 50 51; 91 51 52; 92 52 53; 93 53 54
   37. 95 47 56; 96 48 57; 97 49 58; 98 50 59; 99 51 60; 100 52 61; 101 53 62
   38. 102 54 63; 103 55 56; 104 56 57; 105 57 58; 106 58 59; 107 59 60; 108 60 61
```

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B.E., M.Tech (Str), Ph.D(Hon),
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STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

```
39. 109 61 62; 110 62 63
40. DEFINE MATERIAL START
41. ISOTROPIC CONCRETE
42. E 2.17185E+07
43. POISSON 0.17
44. DENSITY 23.5616
45. ALPHA 1E-05
46. DAMP 0.05
47. G 9.28139E+06
48. TYPE CONCRETE
49. STRENGTH FCU 27579
50. END DEFINE MATERIAL
51. MEMBER PROPERTY
52. 10 TO 25 27 TO 42 44 TO 59 61 TO 76 78 TO 93 95 TO 110 PRIS YD 0.5 ZD 0.2
53. CONSTANTS
54. MATERIAL CONCRETE ALL
55. SUPPORTS
56. 2 TO 9 FIXED
57. DEFINE IS1893 2016 LOAD
58. ZONE 0.16 RF 3 I 1.2 SS 2 ST 1 DM 0.05
59. SELFWEIGHT 1
60. MEMBER WEIGHT
61. 18 TO 25 35 TO 42 52 TO 59 69 TO 76 86 TO 93 103 TO 110 UNI 12.8 0 0
62. 18 TO 21 23 TO 25 35 TO 38 40 TO 42 52 TO 55 57 TO 59 69 TO 72 74 TO 76 86 -
63. 87 TO 89 91 TO 93 103 TO 106 108 TO 110 UNI 12.18 0 0
64. 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.

65. TYPE 1 WIND 1
66. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
67. IS875-2015:PARAMS 0 0 0 19.200 0.000 3.200 0 CHENNAI 50.000 0 1.000 1 7 -
68. 1.000 1.000 1.000 1.000 1.028 1.054 1.067 1.000 2 1.000 0.020 0 26.640 0.000 -
69. 19.200 0 0 0 1.000 0 0 0.200 1.000 0 1.000 1.000 1.000
70. !> END GENERATED DATA BLOCK
71. INT 1.5 1.5 1.5 1.5 1.585 1.666 1.707 HEIG 0 3.2 6.4 9.6 12.8 16 19.2
72. EXP 1 JOINT 2 TO 63
73. LOAD 1 LOADTYPE SEISMIC-H TITLE EQX
74. 1893 LOAD X 1
75. LOAD 2 LOADTYPE SEISMIC-H TITLE EQ-X
76. 1893 LOAD X -1.
77. LOAD 3 LOADTYPE SEISMIC-H TITLE EQZ
78. 1893 LOAD Z 1
79. LOAD 4 LOADTYPE SEISMIC-H TITLE EQ-Z
80. 1893 LOAD Z -1.
```

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M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
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```
 81. LOAD 5 LOADTYPE DEAD  TITLE DL
 82. SELFWEIGHT Y -1
 83. MEMBER LOAD
 84. 18 TO 25 35 TO 42 52 TO 59 69 TO 76 86 TO 93 103 TO 110 UNI GY -12.8
 85. LOAD 6 LOADTYPE LIVE  TITLE LL
 86. MEMBER LOAD
 87. 18 TO 21 23 TO 25 35 TO 38 40 TO 42 52 TO 55 57 TO 59 69 TO 72 74 TO 76 86 -
 88. 87 TO 89 91 TO 93 103 TO 106 108 TO 110 UNI GY -12.18
 89. LOAD 7 LOADTYPE WIND  TITLE WLZ
 90. WIND LOAD Z 1 TYPE 1
 91. LOAD 8 LOADTYPE WIND  TITLE WL-Z
 92. WIND LOAD -Z 1 TYPE 1
 93. LOAD COMB 9 1.5(DL+LL)
 94. 5 1.5 6 1.5
 95. LOAD COMB 10 1.2(DL+LL+EQX)
 96. 1 1.2 5 1.2 6 1.2
 97. LOAD COMB 11 1.2(DL+LL-EQX)
 98. 2 1.2 5 1.2 6 1.2
 99. LOAD COMB 12 1.2(DL+LL+EQZ)
100. 3 1.2 5 1.2 6 1.2
101. LOAD COMB 13 1.2(DL+LL-EQZ)
102. 4 1.2 5 1.2 6 1.2
103. LOAD COMB 14 1.2(DL+LL+WLZ)
104. 5 1.2 6 1.2 7 1.2
105. LOAD COMB 15 1.2(DL+LL-WLZ)
106. 5 1.2 6 1.2 8 1.2
107. LOAD COMB 16 1.5(DL+EQX)
108. 1 1.5 5 1.5
109. LOAD COMB 17 1.5(DL-EQX)
110. 2 1.5 5 1.5
111. LOAD COMB 18 1.5(DL+EQZ)
112. 3 1.5 5 1.5
113. LOAD COMB 19 1.5(DL-EQZ)
114. 4 1.5 5 1.5
115. LOAD COMB 20 1.5(DL+WLZ)
116. 5 1.5 7 1.5
117. LOAD COMB 21 1.5(DL-WLZ)
118. 5 1.5 8 1.5
119. LOAD COMB 22 0.9DL+1.5EQX
120. 1 1.5 5 0.9
121. LOAD COMB 23 0.9DL-1.5EQX
122. 5 0.9 2 1.5
123. LOAD COMB 24 0.9DL+1.5EQZ
124. 5 0.9 3 1.5
125. LOAD COMB 25 0.9DL-1.5EQZ
126. 5 0.9 4 1.5
127. LOAD COMB 26 0.9DL+1.5WLZ
```

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```
128. 5 0.9 7 1.5
129. LOAD COMB 27 0.9DL-1.5WLZ
130. 5 0.9 8 1.5
131. PERFORM ANALYSIS
```

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

NUMBER OF JOINTS	62	NUMBER OF MEMBERS	96
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	8

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 8, TOTAL DEGREES OF FREEDOM = 324
TOTAL LOAD COMBINATION CASES = 19 SO FAR.

**WARNING: IF THIS UBC/IBC ANALYSIS HAS TENSION/COMPRESSION
OR REPEAT LOAD OR RE-ANALYSIS OR SELECT OPTIMIZE, THEN EACH
UBC/IBC CASE SHOULD BE FOLLOWED BY PERFORM ANALYSIS & CHANGE.

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =   0.68792 SEC        *
* SA/G PER 1893=    1.977, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0633 X     4558.85=     288.41 KN   *
* VB Act Based on Clause 7.2.1 =      288.41 KN         *
* VB Min based on Clause 7.2.2 =       50.15 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.68792 SEC       *
* SA/G PER 1893=    1.977, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0633 X     4558.85=    -288.41 KN   *
* VB Act Based on Clause 7.2.1 =     -288.41 KN         *
* VB Min based on Clause 7.2.2 =      -50.15 KN         *
*                                                       *
*********************************************************
```

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```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR Z 1893 LOADING =    0.68792 SEC       *
* SA/G PER 1893=    1.977, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0633 X     4558.85=     288.41 KN   *
* VB Act Based on Clause 7.2.1 =      288.41 KN         *
* VB Min based on Clause 7.2.2 =       50.15 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6 BASE SHEAR AND TIME PERIOD IN Z

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR Z 1893 LOADING =    0.68792 SEC       *
* SA/G PER 1893=    1.977, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0633 X     4558.85=    -288.41 KN   *
* VB Act Based on Clause 7.2.1 =     -288.41 KN         *
* VB Min based on Clause 7.2.2 =      -50.15 KN         *
*                                                       *
*********************************************************
```

132. FINISH

********** END OF THE STAAD.Pro RUN **********

**** DATE= JAN 9,2025 TIME= 15:15:22 ****

Dr. ALEX JACOB
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STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
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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

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.