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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

Date: 20-10-2024

Structural Stability Certificate

It is certified that the Proposed Residential Building comprising **Stilt Floor + 3 floors with 16 Dwelling Units** to be set up at **Door No. 9A, Old Door No. 21& 21A, New Door No. 9/7, Varadaraja Perumal Koil Street, Tondiarpet, Chennai – 600081, Comprised in S. No. 3579/7, Ward – 1, Block No. 53, of Tondiarpet Village, within the Limits of Greater Chennai Corporation, Chennai district, Tamil Nadu State.,** have been designed as a RCC structure to withstand the Dead Load, Imposed Load and Wind Load / Earthquake loads ensuring Structural Safety and service ability as per the norms and guidelines prescribed in the following codes of Bureau of Indian Standards.

1. The minimum grade of concrete is M20
2. IS: 456-2000 Code of Practice for Plain and Reinforced concrete.
3. IS: 875-1987 Code of Practice for Design loads for Buildings and Structures.
4. IS: 1893-2002 Criteria for Earthquake resistant design of Structures Part-1 general Provisions and Buildings.
5. IS: 4236-1993 Code of Practice for Earthquake resistant design & Construction of Buildings.
6. IS: 13920-1993 Code of Practice for Ductile detailing of concrete structures subjected to seismic forces and
7. National Building code of India – 2005 are carried out.

It is further certified that the above structures will be constructed from foundation to roof as per structural designs and detailing of reinforcements furnished in our drawings.

Hence, I hereby certify that the building will be **structurally safe and sound** when used for the purpose for which it is designated.

Signature with Seal

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.

Enclosure: Structural Design Calculations

PROPOSED RESIDENTIAL BUILDING AT PLOT NO. 9A, OLD DOOR NO. 21 & 21/A, NEW DOOR NO. 7 & 9, VARADHARAJA PERUMAL KOVIL STREET, TONDIARPET, CHENNAI 600 081 AND COMPRISED IN OLD SURVEY NO.3231, R.S. NO. 3578/7 (PART), BLOCK NO. 53 OF TONDIARPET VILLAGE, TONDIARPET TALUK AND 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 having stilt plus three 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 Shallow 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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PAGE NO. 1

```
*************************************************
*                                               *
*          STAAD.Pro CONNECT Edition            *
*          Version  22.12.00.142                *
*          Proprietary Program of               *
*          Bentley Systems, Inc.                *
*          Date=    JUL  5, 2024                *
*          Time=    14: 4:35                    *
*                                               *
*  Licensed to: C.Kannan                        *
*************************************************
```

```
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     2. START JOB INFORMATION
     3. ENGINEER DATE 7/5/2024
     4. ENGINEER NAME KANNAN
     5. CHECKER NAME KANNAN
     6. APPROVED NAME KANNAN
     7. CHECKER DATE 7/5/2024
     8. APPROVED DATE 7/5/2024
     9. JOB NAME PROPOSED RESIDENTAIL BUILDING AT PLOT NO. 9A, OLD DOOR NO. 21&21/A, -
    10. NEW DOOR NO. 7&9, VARADHARAJA PERUMAL KOVIL STREET, TONDIARPET, -
    11. CHENNAI-600081
    12. END JOB INFORMATION
    13. INPUT WIDTH 79
    14. SET NL 250
    15. UNIT MMS KN
    16. JOINT COORDINATES
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    18. 63 0 -1.50503E-05 -10639.9; 75 0 -3.70337E-06 -3549.99; 343 0 3000 0
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    20. 391 0 3000 -3549.99; 566 0 6000 0; 567 0 6000 3930.04; 584 0 6000 -14189.9
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    22. 637 0 9000 -14189.9; 638 0 9000 -10639.9; 640 0 9000 -3549.99; 672 0 12000 0
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    25. 744 0 -2000 -10639.9; 746 0 -2000 -3549.99
    26. MEMBER INCIDENCES
    27. 1 4 1; 40 62 63; 41 75 63; 51 75 1; 251 345 343; 289 384 385; 290 391 385
    28. 300 391 343; 497 1 343; 498 4 345; 515 62 384; 516 63 385; 518 75 391
    29. 550 343 566; 551 345 567; 568 384 584; 569 385 585; 571 391 587; 603 566 619
    30. 604 567 620; 621 584 637; 622 585 638; 624 587 640; 656 619 672; 657 620 673
    31. 674 637 690; 675 638 691; 677 640 693; 709 1 725; 710 4 726; 727 62 743
    32. 728 63 744; 730 75 746; 762 567 566; 800 584 585; 801 587 585; 811 587 566
    33. 1008 620 619; 1046 637 638; 1047 640 638; 1057 640 619; 1254 673 672
    34. 1292 690 691; 1293 693 691; 1303 693 672
    35. UNIT METER KN
    36. DEFINE MATERIAL START
    37. ISOTROPIC CONCRETE
    38. E 2.17185E+07
```

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```
39. POISSON 0.17
40. DENSITY 23.5616
41. ALPHA 1E-05
42. DAMP 0.05
43. G 9.28139E+06
44. TYPE CONCRETE
45. STRENGTH FCU 27579
46. END DEFINE MATERIAL
47. MEMBER PROPERTY
48. 1 40 41 51 251 289 290 300 762 800 801 811 1008 1046 1047 1057 1254 1292 -
49. 1293 1303 PRIS YD 0.6 ZD 0.2
50. 497 498 515 516 518 550 551 568 569 571 603 604 621 622 624 656 657 674 675 -
51. 677 709 710 727 728 730 PRIS YD 0.6 ZD 0.2
52. CONSTANTS
53. BETA 90 MEMB 497 498 515 516 518 550 551 568 569 571 603 604 621 622 624 656 -
54. 657 674 675 677 709 710 727 728 730
55. MATERIAL CONCRETE ALL
56. UNIT MMS KN
57. SUPPORTS
58. 725 726 743 744 746 FIXED
59. UNIT METER KN
60. DEFINE IS1893 2016 LOAD
61. ZONE 0.16 RF 5 I 1.2 SS 1 ST 1 DM 0.05 DT 2
62. MEMBER WEIGHT
63. 1 40 41 51 251 289 290 300 762 800 801 811 1008 1046 1047 1057 1254 1292 -
64. 1293 1303 UNI 15 0 0
65. 1 40 41 51 251 289 290 300 762 800 801 811 1008 1046 1047 1057 1254 1292 -
66. 1293 1303 UNI 45 0 0
67. 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.

68. TYPE 1 WIND 1
69. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
70. CUSTOM:PARAMS
71. !> END GENERATED DATA BLOCK
72. INT 1.35 1.49 HEIG  10  15
73. EXP 1 JOINT 1 4 62 63 75 343 345 384 385 391 566 567 584 585 587 619 620 637 -
74. 638 640 672 673 690 691 693 725 726 743 744 746
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76. 1893 LOAD X 1
77. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQ -X
78. 1893 LOAD X -1.
79. LOAD 3 LOADTYPE SEISMIC-H  TITLE EQ +Z
80. 1893 LOAD Z 1
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STAAD SPACE -- PAGE NO. 3

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  82. 1893 LOAD Z -1.
  83. LOAD 5 LOADTYPE WIND  TITLE WIND +X
  84. WIND LOAD X 1 TYPE 1
  85. LOAD 6 LOADTYPE WIND  TITLE WIND -X
  86. WIND LOAD -X 1 TYPE 1
  87. LOAD 7 LOADTYPE WIND  TITLE WIND +Z
  88. WIND LOAD Z 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
  89. LOAD 8 LOADTYPE WIND  TITLE WIND -Z
  90. WIND LOAD -Z 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
  91. LOAD 9 LOADTYPE LIVE  TITLE LIVE LOAD
  92. MEMBER LOAD
  93. 1 40 41 51 251 289 290 300 762 800 801 811 1008 1046 1047 1057 1254 1292 -
  94. 1293 1303 UNI GY -15
  95. LOAD 10 LOADTYPE DEAD  TITLE DEAD LOAD
  96. MEMBER LOAD
  97. 1 40 41 51 251 289 290 300 762 800 801 811 1008 1046 1047 1057 1254 1292 -
  98. 1293 1303 UNI GY -45
  99. SELFWEIGHT Y -1
 100. LOAD COMB 11 1.5(DL+IL)
 101. 9 1.5 10 1.5
 102. LOAD COMB 12 1.2(DL+IL+ELX)
 103. 9 1.5 10 1.2 1 1.2
 104. LOAD COMB 13 1.2(DL+IL-ELX)
 105. 9 1.2 10 1.2 2 1.2
 106. LOAD COMB 14 1.2(DL+IL+ELZ)
 107. 9 1.2 10 1.2 3 1.2
 108. LOAD COMB 15 1.2(DL+IL-ELZ)
 109. 9 1.2 10 1.2 4 1.2
 110. LOAD COMB 16 1.2(DL+IL+WLX)
 111. 9 1.2 10 1.2 5 1.2
 112. LOAD COMB 17 1.2(DL+IL-WLX)
 113. 10 1.2 6 1.2
 114. LOAD COMB 18 1.2(DL+IL+WLZ)
 115. 9 1.2 10 1.2 7 1.2
 116. LOAD COMB 19 1.2(DL+IL-WLZ)
 117. 9 1.2 10 1.2 8 1.2
 118. LOAD COMB 20 1.5(DL+ELX)
 119. 9 1.5 10 1.5 1 1.5
```

```
120. LOAD COMB 21 1.5(DL-ELX)
121. 9 1.5 10 1.5 2 1.5
122. LOAD COMB 22 1.5(DL+ELZ)
123. 9 1.5 10 1.5 3 1.5
124. LOAD COMB 23 1.5(DL-ELZ)
125. 10 1.5 4 1.5
126. LOAD COMB 24 1.5(DL+WLX)
127. 10 1.5 5 1.5
128. LOAD COMB 25 1.5(DL-WLX)
129. 10 1.5 6 1.5
130. LOAD COMB 26 1.5(DL+WLZ)
131. 10 1.5 7 1.5
132. LOAD COMB 27 1.5(DL-WLZ)
133. 10 1.5 8 1.5
134. LOAD COMB 28 0.9 DL+ELX
135. 10 0.9 1 1.5
136. LOAD COMB 29 0.9 DL-ELX
137. 10 0.9 2 1.5
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139. 10 0.9 3 1.5
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141. 10 0.9 4 1.5
142. LOAD COMB 32 0.9 DL+WLX
143. 10 0.9 5 1.5
144. LOAD COMB 33 0.9 DL-WLX
145. 10 0.9 6 1.5
146. LOAD COMB 34 0.9 DL+WLZ
147. 10 0.9 7 1.5
148. LOAD COMB 35 0.9 DL-WLZ
149. 10 0.9 8 1.5
150. PERFORM ANALYSIS PRINT ALL


         P R O B L E M   S T A T I S T I C S
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  NUMBER OF PLATES           0  NUMBER OF SOLIDS         0
  NUMBER OF SURFACES         0  NUMBER OF SUPPORTS       5

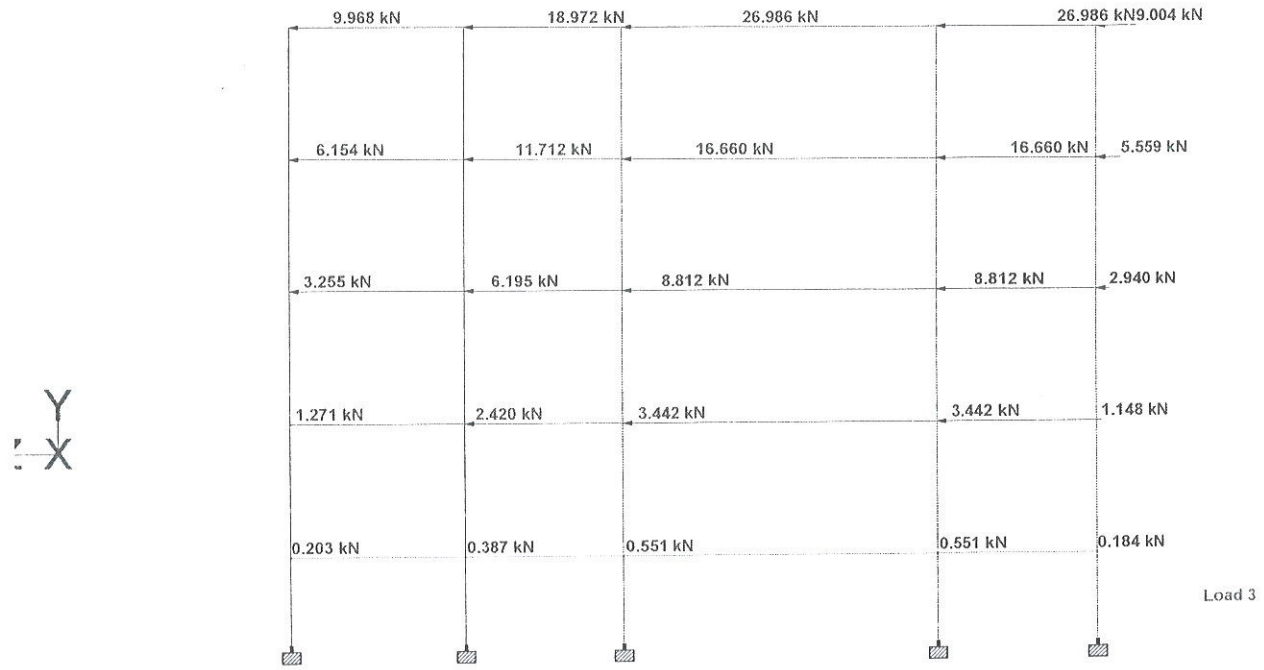
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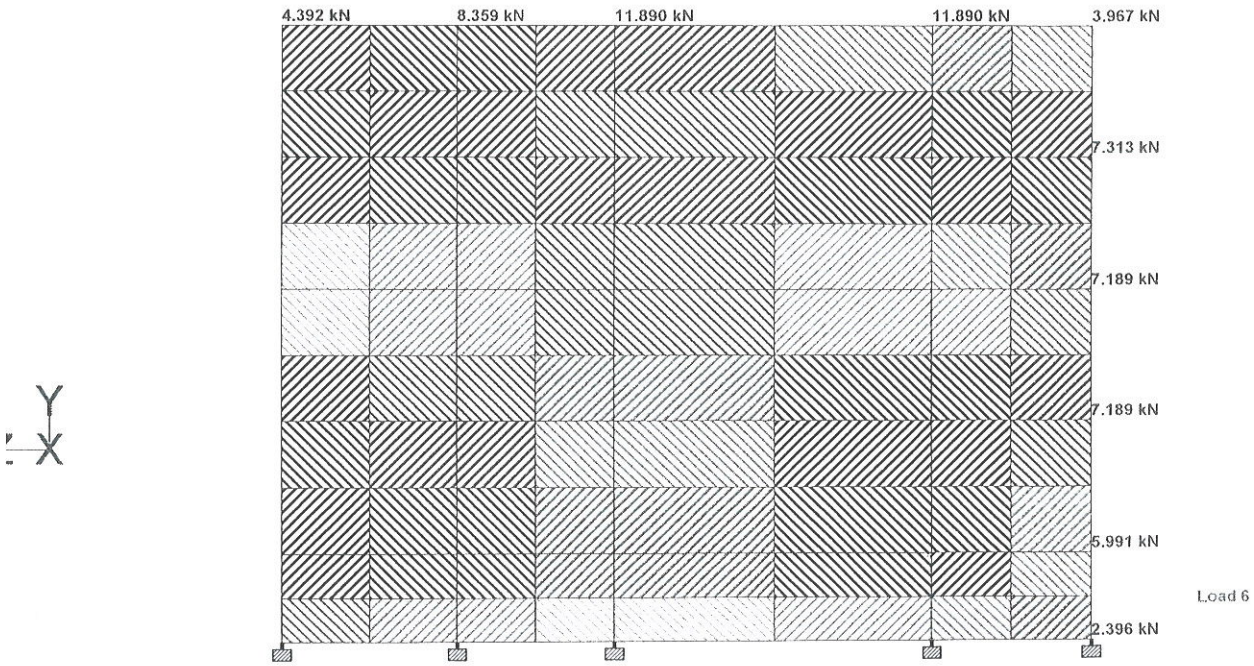
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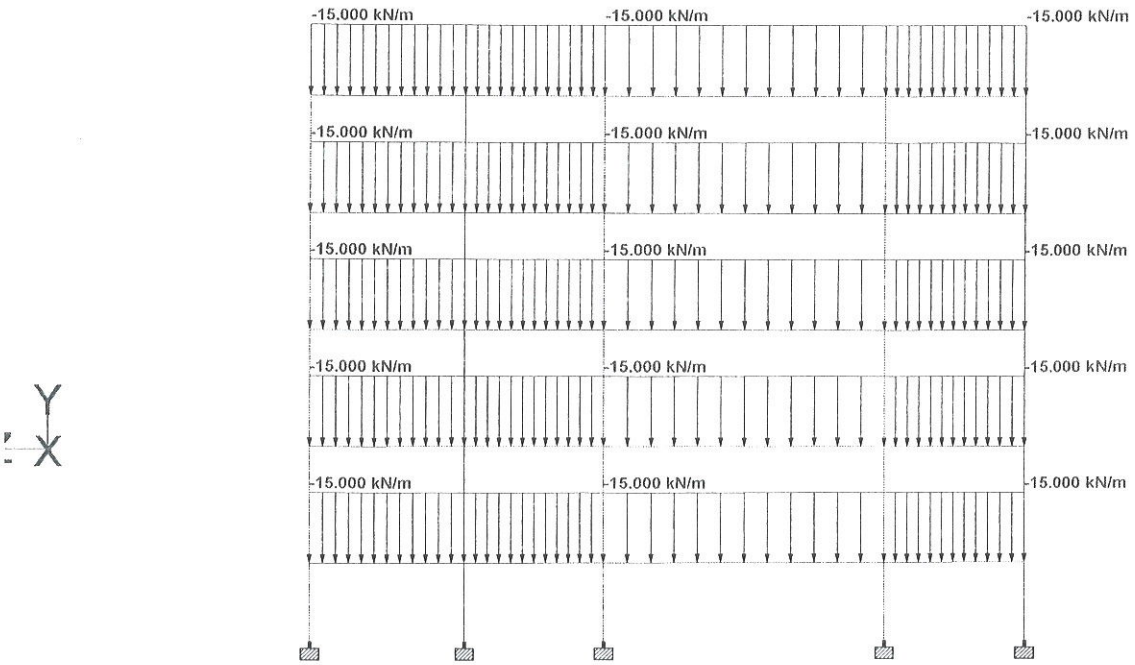


C. KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.

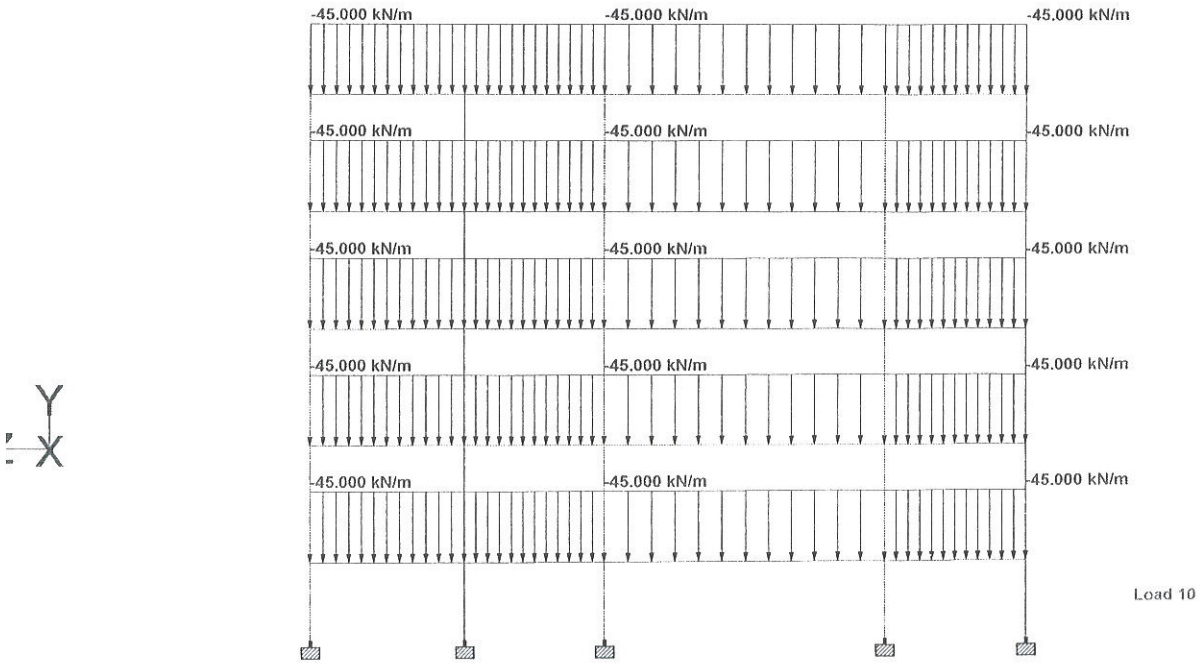


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Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.


4.392 kN
8.359 kN
11.890 kN
11.890 kN
3.967 kN
7.313 kN
7.189 kN
7.189 kN
5.991 kN
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Y
X
Load 6

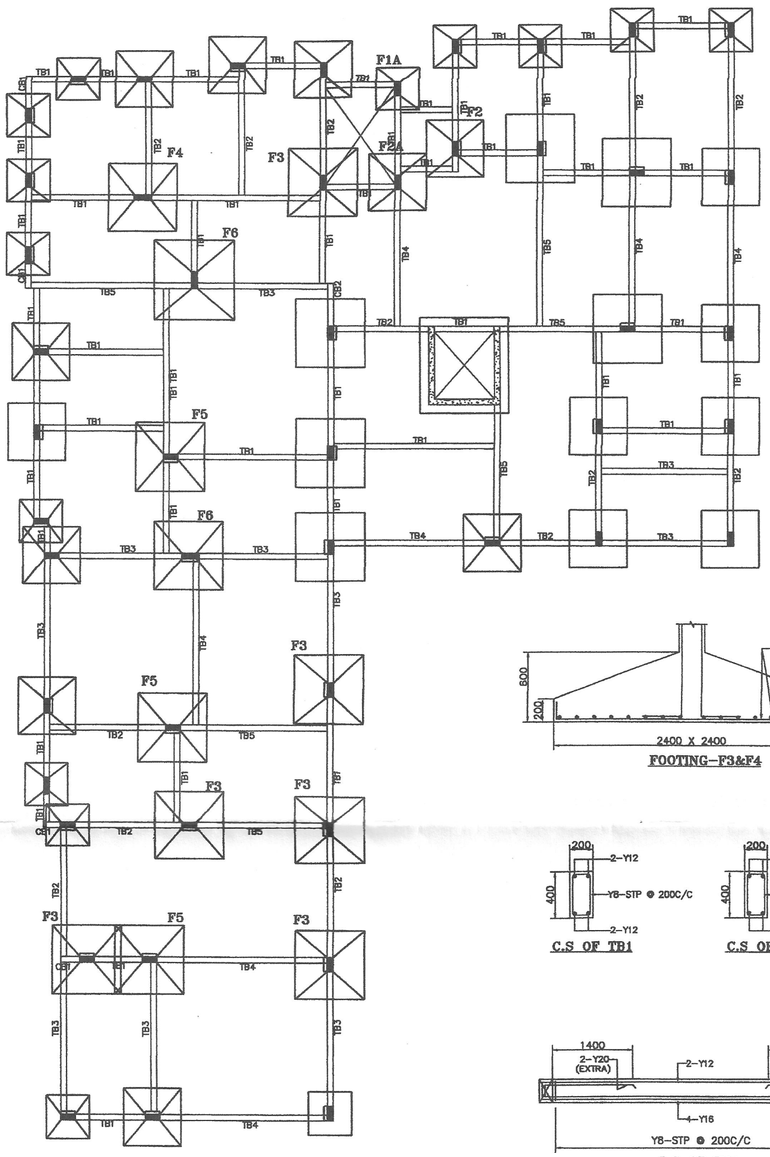

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X

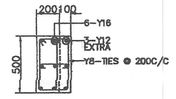
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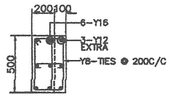
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C. KANNAN, B.E., M[illegible]tecture)
Structural E[illegible]
CMDA Reg. No: SE[illegible]/0047
Door No: 21, 4[illegible]
Indira Nagar, Ch[illegible]0.

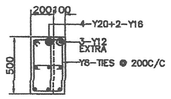




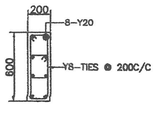
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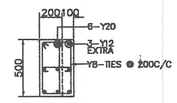
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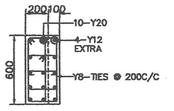
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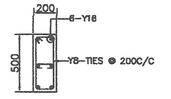
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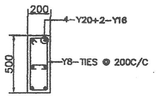
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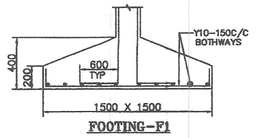
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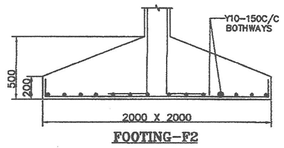
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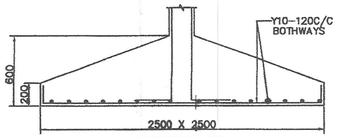


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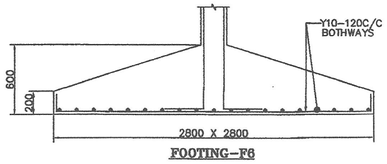


FOOTING-F2

FOOTING-F3&F4

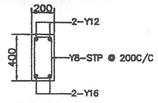


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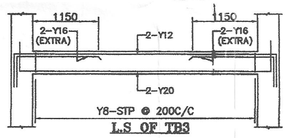


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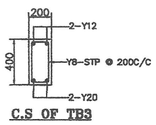
C.S OF TB1



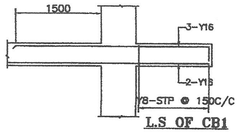
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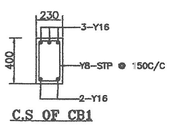
L.S OF TB3



C.S OF TB3

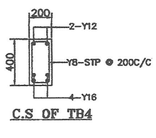


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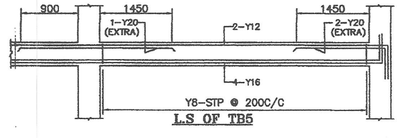


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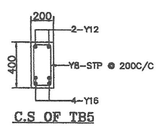
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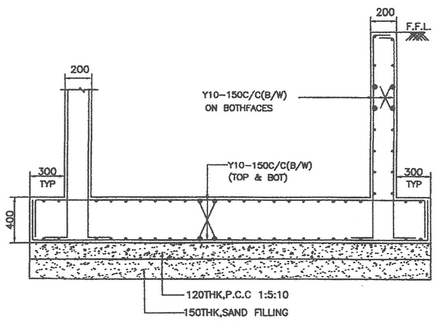
C.S OF TB4



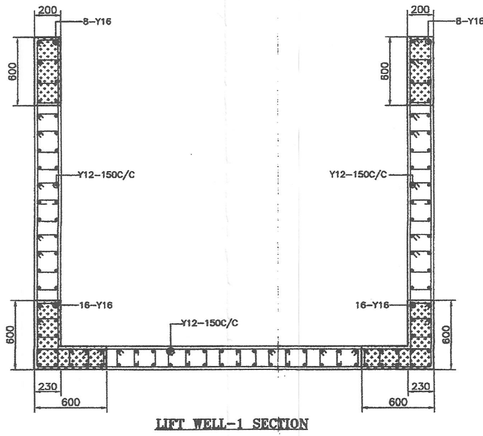
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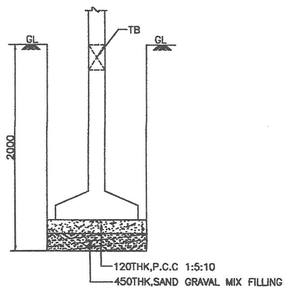
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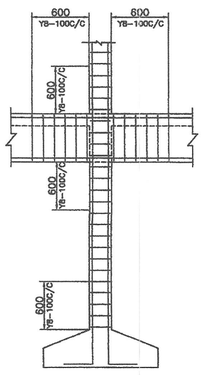
LIFTWELL SECTION A A



LIFT WELL-1 SECTION



TYP.FOUNDATION



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
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.
   20 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 three 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 RESIDENTIAL BUILDING AT PLOT NO. 9A, OLD DOOR NO. 21 & 21/A, NEW DOOR NO. 7 & 9, VARADHARAJA PERUMAL KOVIL STREET, TONDIARPET,CHENNAI – 600 081 AND COMPRISED IN OLD SURVEY NO.3231, R.S. NO. 3578/7 (Part), BLOCK NO. 53 OF TONDIARPETVILLAGE, TANDIARPET TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION. ZONE:– IX ; DIVISION:– 116.

FOUNDATION DETAIL

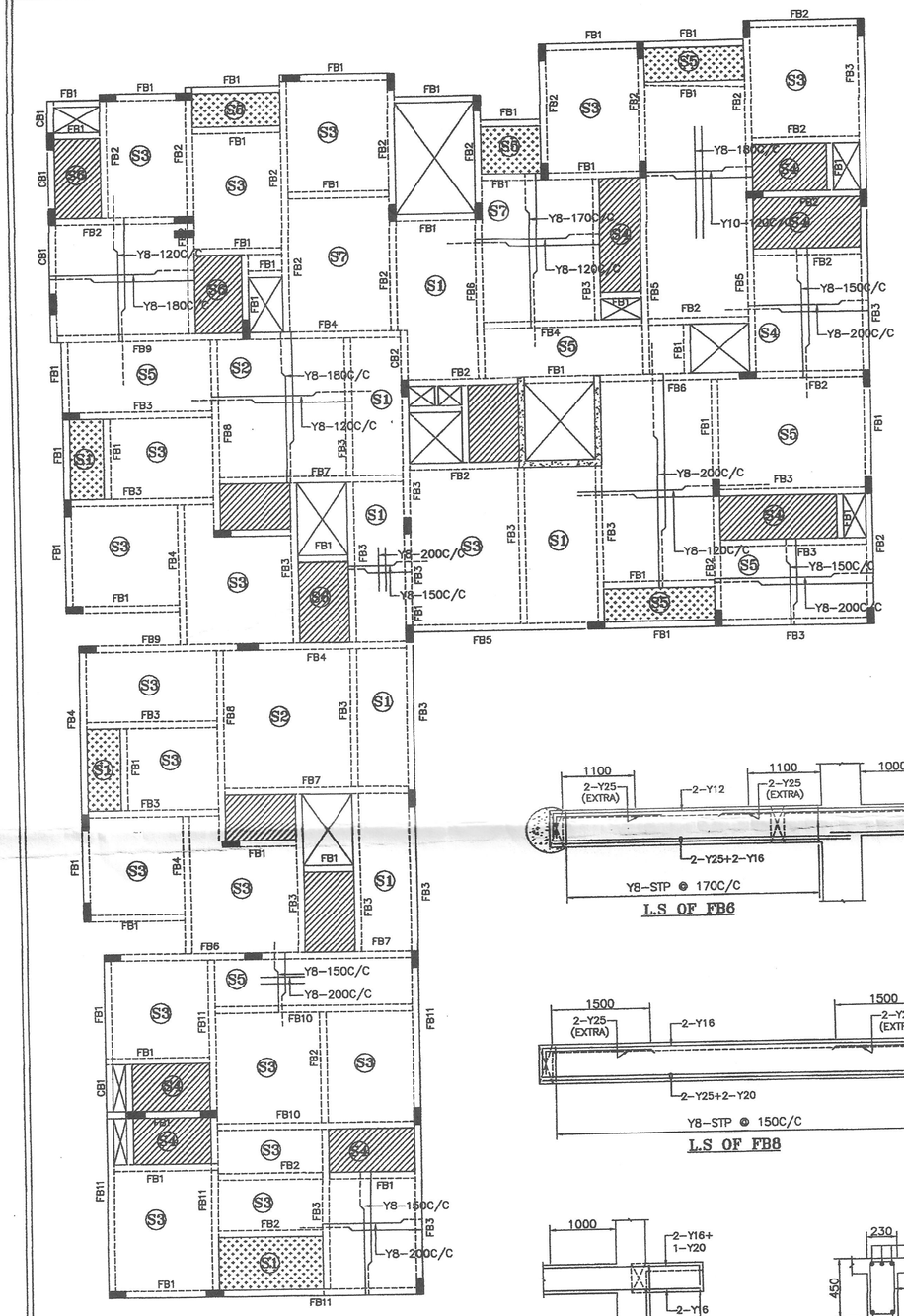
DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	NASURTHEEN		DATE	05-07-2024

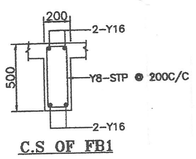
STRUCTURAL CONSULTANTS:

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.

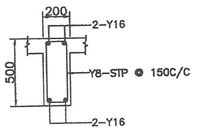
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257-W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI-20.
MOBILE NO: 098412 49815.
E-MAIL:kannanks2007@gmail.com

FILE NAME : D/SEETHA/ELITE HOUSING-TONDIARPET

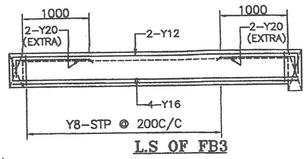




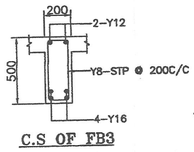
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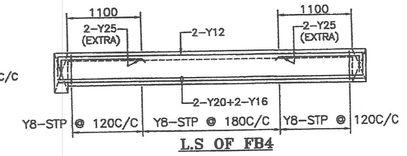
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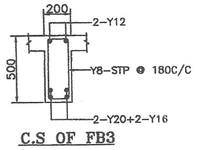
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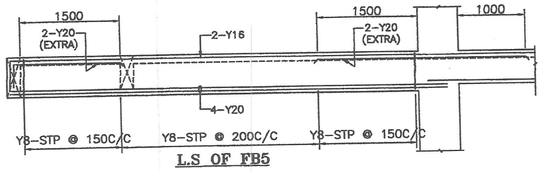
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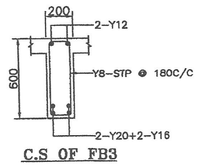
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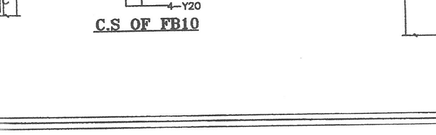
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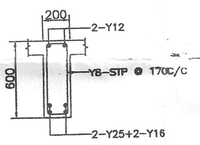
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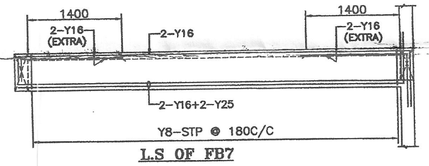
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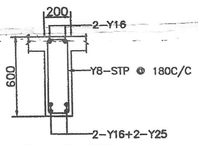
L.S OF FB6



C.S OF FB6

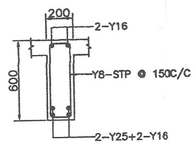


L.S OF FB7

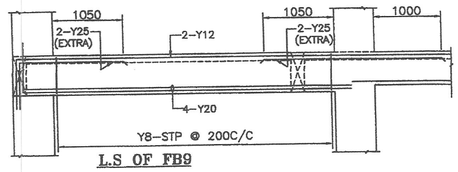


C.S OF FB7

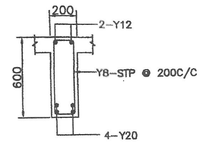
L.S OF FB8



C.S OF FB8

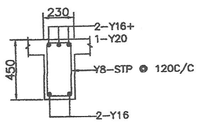


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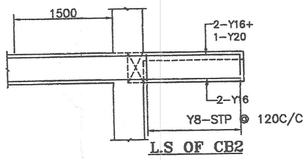


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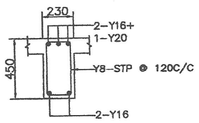
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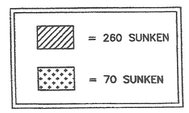
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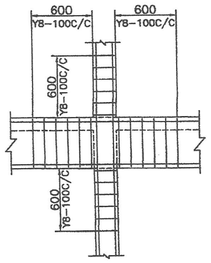


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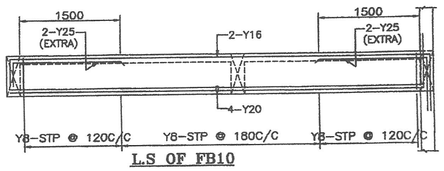


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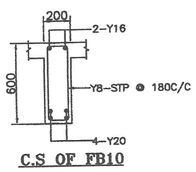




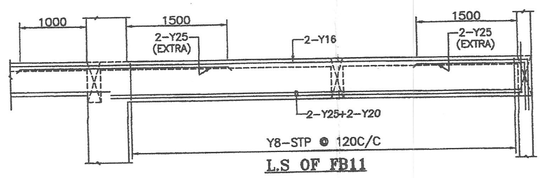
TYP. SEC. FOR STP. DETAILS



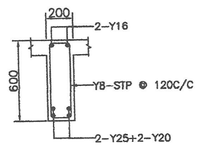
L.S OF FB10



C.S OF FB10



L.S OF FB11



C.S OF FB11

Notes:-

1. This drawing should be read along with architectural drawings.
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3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 2008. Grade – Fe 500
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15. Removal of formworks :
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R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED RESIDENTIAL BUILDING AT PLOT NO. 9A, OLD DOOR NO. 21 & 21/A, NEW DOOR NO. 7 & 9, VARADHARAJA PERUMAL KOVIL STREET, TONDIARPET,CHENNAI – 600 081 AND COMPRISED IN OLD SURVEY NO.3231, R.S. NO. 3578/7 (Part), BLOCK NO. 53 OF TONDIARPETVILLAGE, TANDIARPET TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION. ZONE:– IX ; DIVISION:– 118.

TYPICAL FLOOR ROOF DETAIL

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	SEETHA		DATE	05-07-2024

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/ELITE HOUSING–TONDIARPET

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.