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DIGITALLY VERIFIED RECORD

STABILITY CERTIFICATE

(To be furnished while filing application for registration of building)

The detailed engineering and structure design of the proposed building comprising of Stilt +5 floors at Irrungakottai A Village, & Valapuram Village, Kanchipuram district, Sriperambadur Taluk S.No. 19/2, 19/3 & 370/2C1B, has been done by me/us based on the report of geotechnical investigation (soil test) done by GEO Engineering Consultants Report No.**GEC –JC-GT-6079-PHASE-1** Dated 05.11.2024 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/We 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 M20

(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 Codes No 875-1987 and design of earthquake-resistant structure as per IS Code No. 1893-2002

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

Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
Reg. No. SE/I/2024/2/0014
Reg. No. RSE100382019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005

Encl.: Structural Design Calculation

26-11-2024

CERTIFICATE

It is certified that the Proposed Construction at Villa Block(1to 5) G + 1 Flr, Block 6 Stilt+3 Flr Block 7 Stilt+5 Flr Residential Building at Valapuram Village Survey No 370/2C1B, and Irrungakottai a Village Survey No 19/2, 19/3 Sriperambadur, Kanchipuram District 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 M25.

2. The design analysis using the code of practice for loading Standards as per IS-875 Part I to V and seismic force as per code IS 1893, is carried out.

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

(SURESH.J)
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Annexure – XIV

[See rule 51 (3)]

Form 1

Structural Design Basis Report

(1) This report to accompany the application for Building Developments

Part1	General Data		
S.No.	**Description**	**Information**	**Notes**
1	Site Address	S.NO 19/2, 19/3, IRUNGATTUKOTTAI "A" VILLAGE, & S No. 370/2 C1B, VALARPURAM VILLAGE, SRIPERAMBUDUR TALUK, KANCHIPURAM DISTRICT.	
2	Name of Owner	GT BHARATHI URBAN DEVELOPERS PVT. LTD	
3	Name of Registered Developer along with the Registration Number	NA	
4	Name of Registered Architect along with the Registration Number	MR. J.B. JEGANATHI . CGLRGN/RA/Gr-11/2019/06/012	
5	Name of Registered Structural engineer along with the Registration Number	Dr. SURESH CGLRGN/SE/Gr-I/2019/06/012	
6	Use of the building	NON HIGH RISE BUILDING	
7	Number of stories above ground level (including story's to be added later, if any) 1. Villa (Block 1 to 5) 2. Podium Villa (Block 6) 3. Apartments (Block 7)	Ground + 1 Floor Stilt + 3 Floors Stilt + 5 Floors	
8	Number of basements below ground level	NA	
9	Type of structure Load bearing walls R.C.C. frame R.C.C. frame and Shear Walls Steel frame	RCC Frame	
10	Soil data Type of soil Design safe bearing capacity	Silty Clay 30 t/sqm	IS:1893 C1.6.3.5.2 IS: 1904 IS: 1892 IS: 2131 IS: 2720

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11	Dead loads (unit weight adopted) Earth Water Brick masonry Plain cement concrete Reinforced cement concrete Floor finish Other fill materials	 20 KN/cum 10 KN/cum 20 KN/cum 24 KN/cum 25 KN/cum 20 KN/cum	IS: 875 Part 1
12	Imposed (live) loads Floor loads Roof loads	2 KN/m^2	IS: 875 Part 2
13	Cyclone/Wind Speed Design pressure intensity	50 m/s	IS: 875 Part 3
14	Seismic zone	III	IS: 1893 (2016)
15	Importance factor	1.2	IS:1893(2016) Table 6
16	Seismic zone factor (Z)	0.16 (Zone – III)	IS:1893 Table 2
17	Response reduction factor	5	IS:1893 Table 7
18	Fundamental natural period – approx.	0.702	IS:1893 C1.7.6
19	Design horizontal acceleration spectrum value (Ah)	0.027	IS: 1893 C1.6.4.2
20	Expansion/Separation Joints	Nil	
21	Building is regular/irregular	Regular	IS 1893

- Enclose detailed drawings drawn to scale for each floor
- In case terrace garden is provided, indicate additional fill load and live load along with the detailed drawings drawn to scale

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Part 2	Load bearing masonry buildings		
Sl.No.	**Description**	**Information**	**Notes**
1	Building category	-	IS: 4326 C1.7 Read with IS:1893 Zone II III IV V Bldg. Ordinary B C D E Important C D E E
2	Basement Provided	-	
3	Number of floors including Ground Floor (all floors including stepped floors in hill slopes)	-	
4	Type of wall masonry	-	
5	Type and mix of Mortar	-	IS: 4326 C1.8.1.2
6	Re: size and position of openings (See note No.[i]) Minimum distance (b5) Ratio $(b_1+b_2+b_3)/l_1$ or $(b_6+b_7)/l_2$ Minimum pier width between consequent opening (b_4) Vertical distance (h_3) Ratio of wall height to thickness 4 Ratio of wall length between cross wall to thickness	-	IS: 4326 Table 4, Fig.7
7	Horizontal seismic band at plinth level at window sill level at lintel level at ceiling level at eave level of sloping roof at top of gable walls at top of ridge walls	P IP NA / / / / / / /	(see note No.2) IS:4326 C1 8.4.6 IS: 4326 C1 8.3 IS: 4326 C1 8.4.2 IS: 4326 C1 8.4.3 IS: 4326 C1 8.4.3 IS: 4326 C1 8.4.4
8	Vertical reinforcing bar at corners and T junction of walls at jambs of doors and window openings	/	IS: 4326 C1 8.4.8. IS: 4326 C1 8.4.9
9	Integration of prefab roofing/flooring elements through reinforced concrete screed.	/	IS:4326 C1 9.1.4
10	Horizontal bracings in pitched truss in horizontal plane at the level of ties in the slopes of pitched roofs	/	

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Notes: (i) Information in Item 6 should be given on separate A4 sheets for all walls with large number of openings

(ii) IP indicated "Information Provided"

IP indicates "Information to be provided" NA

indicates "Not Applicable"

Tick mark one box

Part 3	**Reinforced concrete framed buildings**		
Sl. No.	**Description**	**Information**	**Notes**
1	Type of building Regular frames Regular frames with Shear Walls Irregular frames Irregular frames with Shear Walls Soft storey	Regular Frames	IS: 1893 C1 7.1
2	Number of basements	NA	
3	Number of floors including ground floor 4. Villa (Block 1 to 5) 5. Podium Villa (Block 6) 6. Apartments (Block 7)	Ground + 1 Floor Stilt + 3 Floors Stilt + 5 Floors	
4	Horizontal floor system Beams and slabs Waffles Ribbed floor Flat slab with drops Flat plate without drops	Beams 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	Silty Clay Isolated footing 30 t/sqm	IS: 1498
6	Foundations Depth below ground level Type Independent Interconnected Raft Piles	1.5m Isolated footing	
7	System of interconnecting foundations Plinth beams Foundation beams	Plinth beams	IS: 1893 C1 7.1

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8	Grades if concrete used in different parts of building	M-30 for columns M-25 for other R.C.C	
9	Method of analysis used	Response Reduction Method	
10	Computer software used	Etabs	
11	Torsion included	Yes	IS: 1893 C1 7.9
12	Base shear a. Based on approximate fundamental period b. Based on dynamic analysis c. Ratio of a/b	0.702 1.1 1	IS: 1893 Cl. 7.6.2
13	Distribution of seismic forces along the height of the building.	1.2	IS:1893 Cl.7.7 (Provide sketch)
14	The Column of soft ground storey specially designed.	Yes	IS: 1893 Cl.7.10
15	Clear minimum cover provided in • Footing & Raft • Column • Beams • Slabs	 50 mm 40 mm 30 mm 25 mm	IS: 456 Cl. 26.4
16	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 in 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 Diameter Spacing • Ratio of shear capacity of columns to maximum seismic shear in the storey.	 Fe 550 200 mm 300 mm 0.25% 3% 120 mm 100mm 4 8 mm 100 mm 1	 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
17	Does the features require clearance by SDRP Example: High rise building Prefab building Building in hazard prone areas		

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Foundation

i. In case raft foundation has been adopted, indicate K value used for analysis of the raft. (Sub grade Modulus Ks – 7000 tons/m2/m)

ii. Incase pile foundations have been used, give full particulars of the piles, type, dia, length, capacity

iii. In case of high water table, indicate system of countering water pressure, and indicate the existing water table, and that assumed to design foundations.

Idealization for Earthquake analysis

i. In case of composite system of shear walls and rigid frames, give distribution of base shear in the two systems on the basis of analysis, and that used for design of each system

ii. Indicate the idealization of frames and shear walls adopted in the analysis with the help of sketches.

iii. Submit framing plans of each floor

iv. In case of basements, indicate the system used to contain earth pressures.

Part 4	**Buildings in structural steel**		
1	Adopted method of design	○ Simple ○ Semi-rigid ○ Rigid	IS:800 Cl 3.4.4 IS:800 Cl.3.4.5 IS:800 Cl.3.5.6
2	Design based on	○ Elastic analysis ○ Plastic analysis	IS: 800 Section-9 SP;6 (6)
3	Floor construction	○ Composite ○ Non composite ○ Boarded	
4	Roof construction	○ Composite ○ Non composite ○ Metal ○ Any other	
5	Horizontal force resisting system adopted	Frames Braced frames Frames & shear walls	Note: Seismic force As per IS:1893 Would depend on system
6	Slenderness ratios maintained	Members defined in Table 3.1, IS:800	IS 800; Cl.3.7
7	Member deflection limited to	Beams, Rafters Crane Girders, Purlins Top of columns	IS:800 Cl.3.13
8	Structural members	○ Encased in concrete Not encased	IS: 800 Section-10
9	Proposed material	○ General weld-able ○ High strength	IS: 2062 IS: 8500
10	Minimum metal thickness Specified for corrosion protection	○ Hot rolled sections ○ Cold formed sections ○ Tubes	IS: 800, Cl.3.8 Cl.3.8.1 to Cl.3.8.4 Cl.3.8.5

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11	Structural connections	○ Rivets ○ CT Bolts ○ S H F G Bolts ○ Black Bolts ○ Welding field Shop (Specify welding type proposed) Composite	IS: 800, Section-8 IS: 1929, 2155, 1149 IS 6639, 1367 IS 3757, 4000 IS: 1363, 1367 IS: 816, 814,1395, 7280, 3613, 6419, 6560, 813, 9595
12	Minimum Fire rating proposed, with method	○ Rating.....hours ○ Method proposed. -In tumescent painting -Spraying -Quilting -Fire retardant boarding	IS: 1641, 1642, 1643

Part-5

Any special weakness in the building making it vulnerable for stability related failure and the precaution to be taken during execution/completion and finishing to be indicated.

Part-6

Recommendations of structural Engineer with respect to special requirements needed with respect to structural safety and stability to be taken note of by competent authority feature like incorporation of swimming pool, heavy load on roof, prefabricated structure or any other hazardous features should be included.

Structural Engineer Seal and Signature

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*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    NOV 27, 2024                 *
*          Time=    11:43:10                     *
*                                                *
*  Licensed to: Universal Consultants            *
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     1. STAAD SPACE
INPUT FILE: C:\Users\suresh\Desktop\UC-VALARPURAM\VALARPURAM.STD
     2. START JOB INFORMATION
     3. JOB NAME PROPOSED CONSTRUCTION AT
     4. *STILT +5 FLOORS   RESIDENTIAL BUILDING AT VALAPURAM VILLAGE SURVEY NO 370/2C1B
     5. *AND IRRUNGAKOTTAI A VILLAGE SURVEY NO 19/2,19/3 SRIPERAMBADUR,
     6. *KANCHIPURAM DISTRICT.
     7. ENGINEER NAME SURESH
     8. CHECKER NAME SURESH
     9. APPROVED NAME SURESH
    10. ENGINEER DATE 11/27/2024
    11. CHECKER DATE 11/27/2024
    12. APPROVED DATE 11/27/2024
    13. END JOB INFORMATION
    14. INPUT WIDTH 79
    15. UNIT METER KN
    16. JOINT COORDINATES
    17. 1 -5 -1 0; 25 -5 -4 0; 26 -1.5 -1 0; 27 -1.5 -4 0; 28 2.2 -1 0; 29 2.2 -4 0
    18. 36 -5 2 0; 37 -1.5 2 0; 38 2.2 2 0; 42 -5 5 0; 43 -1.5 5 0; 44 2.2 5 0
    19. 57 5.9 -1 0; 58 5.9 -4 0; 59 5.9 2 0; 60 5.9 5 0; 63 9.6 -1 0; 64 9.6 -4 0
    20. 65 9.6 2 0; 66 9.6 5 0; 67 -5 8 0; 68 -1.5 8 0; 69 2.2 8 0; 70 5.9 8 0
    21. 71 9.6 8 0; 72 -5 11 0; 73 -1.5 11 0; 74 2.2 11 0; 75 5.9 11 0; 76 9.6 11 0
    22. 77 -5 14 0; 78 -1.5 14 0; 79 2.2 14 0; 80 5.9 14 0; 81 9.6 14 0
    23. MEMBER INCIDENCES
    24. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 43 26 28; 44 27 29; 45 28 29; 55 1 36
    25. 56 26 37; 57 28 38; 61 36 37; 62 37 38; 66 36 42; 67 37 43; 68 38 44; 72 42 43
    26. 73 43 44; 96 28 57; 97 29 58; 98 57 58; 99 57 59; 100 38 59; 101 59 60
    27. 102 44 60; 107 57 63; 108 58 64; 109 63 64; 110 63 65; 111 59 65; 112 65 66
    28. 113 60 66; 114 42 67; 115 43 68; 116 44 69; 117 67 68; 118 68 69; 119 60 70
    29. 120 69 70; 121 66 71; 122 70 71; 123 67 72; 124 68 73; 125 69 74; 126 72 73
    30. 127 73 74; 128 70 75; 129 74 75; 130 71 76; 131 75 76; 132 72 77; 133 73 78
    31. 134 74 79; 135 77 78; 136 78 79; 137 75 80; 138 79 80; 139 76 81; 140 80 81
    32. DEFINE MATERIAL START
    33. ISOTROPIC CONCRETE
    34. E 2.17185E+07
    35. POISSON 0.17
    36. DENSITY 23.5616
    37. ALPHA 1E-05
    38. DAMP 0.05
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39. END DEFINE MATERIAL
40. MEMBER PROPERTY INDIAN
41. 39 42 45 55 TO 57 66 TO 68 98 99 101 109 110 112 114 TO 116 119 121 -
42. 123 TO 125 128 130 132 TO 134 137 139 PRIS YD 0.8 ZD 0.3
43. 40 41 43 44 61 62 72 73 96 97 100 102 107 108 111 113 117 118 120 122 126 -
44. 127 129 131 135 136 138 140 PRIS YD 0.6 ZD 0.2
45. CONSTANTS
46. MATERIAL CONCRETE ALL
47. SUPPORTS
48. 25 27 29 58 64 FIXED
49. DEFINE 1893 LOAD
50. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DM 0.5
51. MEMBER WEIGHT
52. 39 TO 45 55 TO 57 61 62 66 TO 68 72 73 96 TO 102 107 TO 140 UNI -14.5
53. 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.

54. TYPE 1
55. INT 0.673 1.03335 1.3537 1.65375 HEIG  10  30  50  100
56. EXP 1 JOINT 1 25 TO 29 36 TO 38 42 TO 44 57 TO 60 63 TO 81
57. LOAD 1 LOADTYPE NONE  TITLE SLX1
58. 1893 LOAD X 1
59. LOAD 2 LOADTYPE NONE  TITLE SLZ1
60. 1893 LOAD Z 1
61. LOAD 3 LOADTYPE DEAD  TITLE DL
62. SELFWEIGHT Y -1
63. MEMBER LOAD
64. 40 43 61 62 72 73 96 100 102 107 111 113 117 118 120 122 126 127 129 131 135 -
65. 136 138 140 UNI GY -25
66. LOAD 4 LOADTYPE LIVE  TITLE LL
67. MEMBER LOAD
68. 40 43 61 62 72 73 96 100 102 107 111 113 117 118 120 122 126 127 129 131 135 -
69. 136 138 140 UNI GY -15
70. LOAD 7 LOADTYPE WIND  TITLE WLZ1
71. WIND LOAD Z 1 TYPE 1
72. LOAD 8 LOADTYPE WIND  TITLE WLZ2
73. WIND LOAD Z -1 TYPE 1
74. LOAD COMB 9 1.5(DL+LL)
75. 3 1.5 4 1.5
76. LOAD COMB 10 1.2(DL+LL+SLX)
77. 3 1.2 4 1.2 1 1.2
```



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 78. LOAD COMB 11 1.2(DL+LL+SLZ)
 79. 3 1.2 4 1.2 2 1.2
 80. LOAD COMB 14 1.2(DL+LL+WLZ1)
 81. 3 1.2 4 1.2 7 1.2
 82. LOAD COMB 15 1.2(DL+LL+WLZ2)
 83. 3 1.2 4 1.2 8 1.2
 84. LOAD COMB 16 1.5(DL+SLX)
 85. 3 1.5 1 1.5
 86. LOAD COMB 17 1.5(DL+SLZ)
 87. 3 1.5 2 1.5
 88. LOAD COMB 20 1.5(DL+WLZ1)
 89. 3 1.5 7 1.5
 90. LOAD COMB 21 1.5(DL+WLZ2)
 91. 3 1.5 8 1.5
 92. LOAD COMB 22 0.9DL+1.5SLX
 93. 3 0.9 1 1.5
 94. LOAD COMB 23 0.9DL+1.5SLZ
 95. 3 0.9 2 1.5
 96. LOAD COMB 26 0.9DL+1.5WLZ1
 97. 3 0.9 7 1.5
 98. LOAD COMB 27 0.9DL+1.5WLZ2
 99. 3 0.9 8 1.5
100. PERFORM ANALYSIS


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

 NUMBER OF JOINTS         35  NUMBER OF MEMBERS      58
 NUMBER OF PLATES          0  NUMBER OF SOLIDS        0
 NUMBER OF SURFACES        0  NUMBER OF SUPPORTS      5

       Using 64-bit analysis engine.

       SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL      PRIMARY LOAD CASES =     6, TOTAL DEGREES OF FREEDOM =     180
TOTAL LOAD COMBINATION  CASES =    13  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.
```



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*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.65541 SEC       *
* SA/G PER 1893=    1.038, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0277 X     2786.90=      77.11 KN   *
*                                                       *
*********************************************************


*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR Z 1893 LOADING =    0.65541 SEC       *
* SA/G PER 1893=    1.038, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0277 X     2786.90=      77.11 KN   *
*                                                       *
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101. FINISH

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

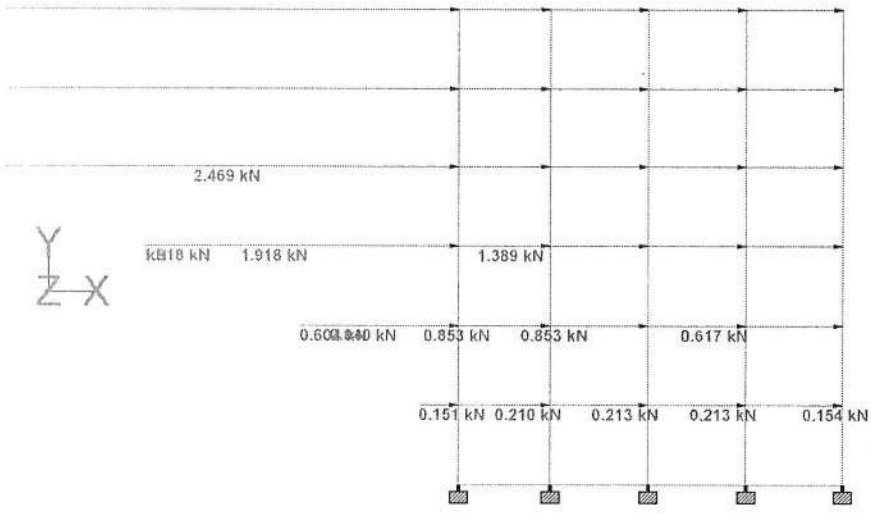
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*************************************************************
*   For technical assistance on STAAD.Pro, please visit     *
*   http://www.bentley.com/en/support/                      *
*                                                           *
*   Details about additional assistance from                *
*   Bentley and Partners can be found at program menu       *
*   Help->Technical Support                                 *
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*          Copyright (c) Bentley Systems, Inc.              *
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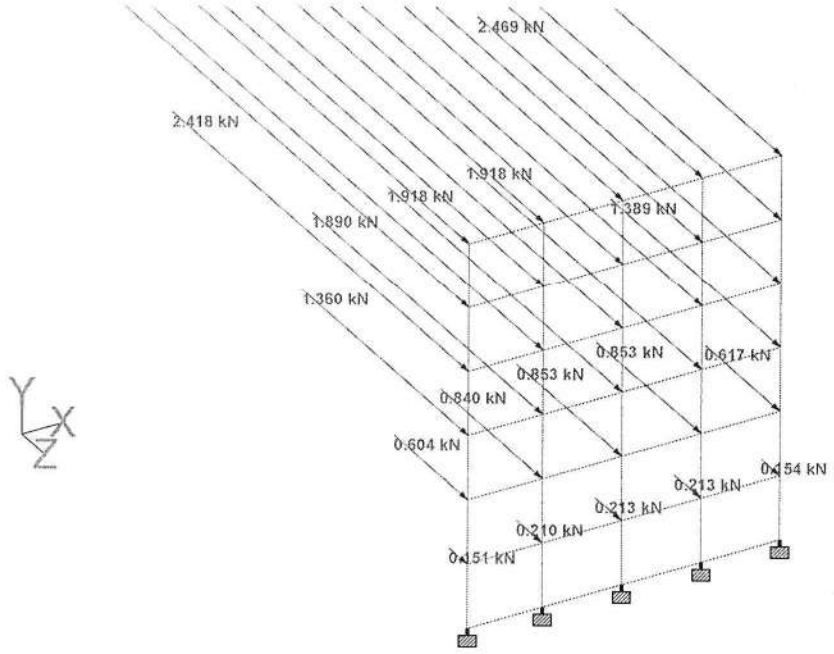


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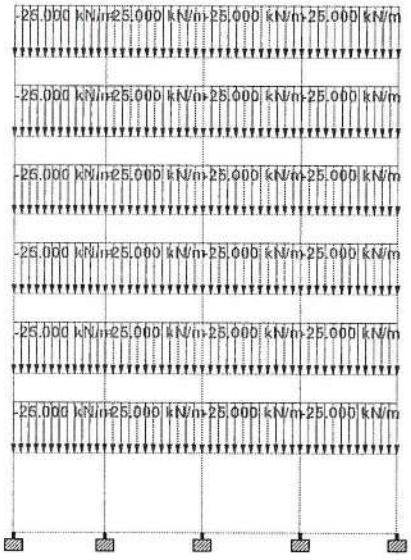
Load 1

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Reg. No. CGLDIST/SE/Gr-I/2024/07/005



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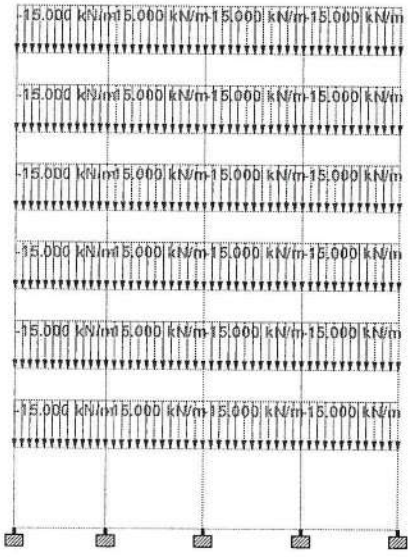
Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
Reg. No. SE/I/2024/2/0014
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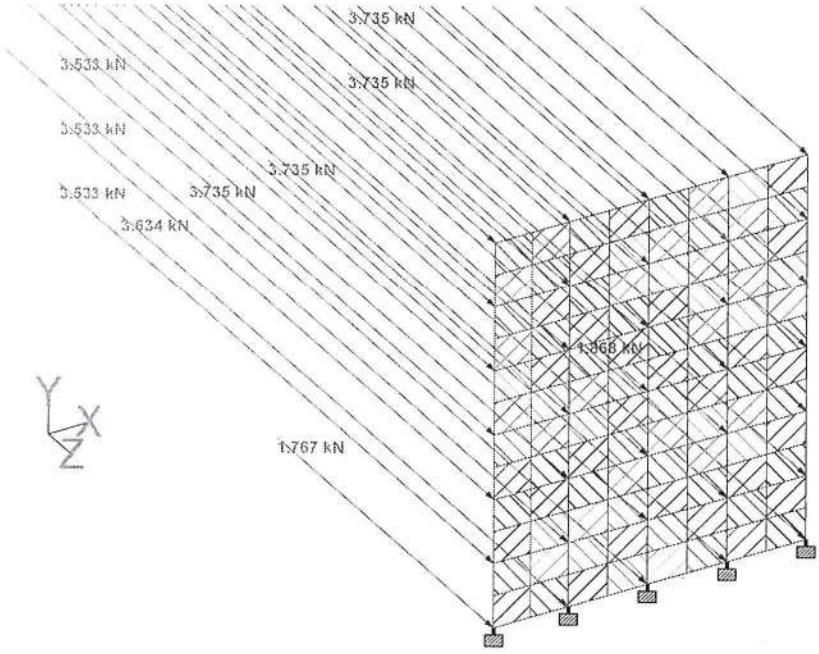
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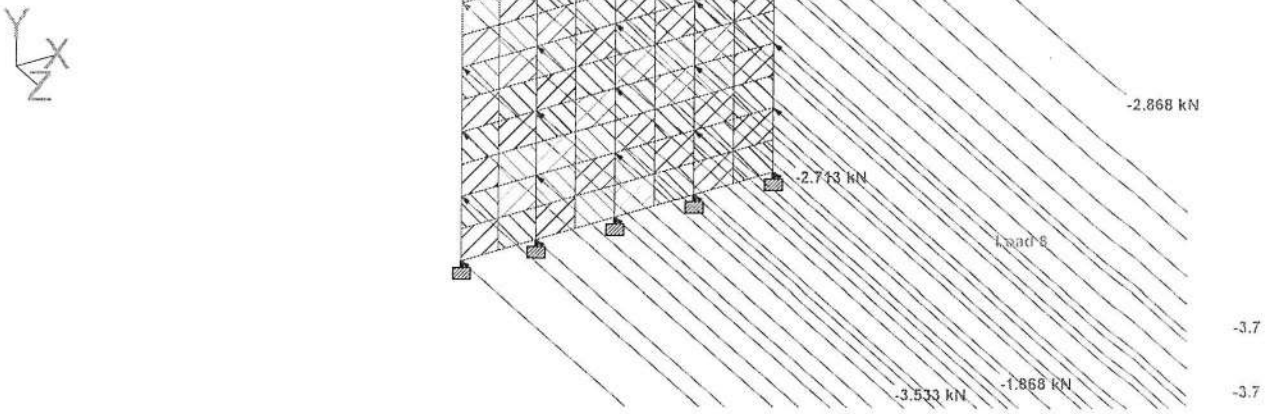
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Load 7

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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.