

PAGE NO. 1

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*
*      STAAD.Pro CONNECT Edition
*      Version  22.00.00.15
*      Proprietary Program of
*      Bentley Systems, Inc.
*      Date=    MAR 14, 2026
*      Time=    12:59:19
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1. STAAD SPACE
INPUT FILE: I:\1.MISCELLANEOUS\STABILITY CERTIFICATE\UC-VENGAMBAKKAM PHASE 2\VENGAMBAKKAM PHASE 2.STD
2. START JOB INFORMATION
3. JOB NAME THE PROPOSED CONSTRUCTION OF BASEMENT FLOOR + GROUND FLOOR + 4 FLOORS
4. *+ 5TH FLOOR (PART) (HEIGHT - 18.15M) RESIDENTIAL BUILDING WITH 173 DWELLING
5. *UNITS AVAILING PREMIUM FSI WITH SWIMMING POOL, KIDS PLAY ROOMS, GYM, AV ROOM
6. *AND INDOOR GAMES ROOM AT VENGAMPAKKAM AND NEDUNKUNDRAM, CHENNAI COMPRISED IN
7. *OLD.S.NOS. 31/3D, 31/3E, 32, 33/4, 33/5, NEW S.NOS.31/3D, 31/3E1, 32, 33/4A,
8. *33/4B, 33/4C, 33/5A & 33/5B OF VENGAMBAKKAM VILLAGE WITHIN THE LIMITS ST.THOMA
9. *MOUNT PANCHAYAT UNION AND OLD.S.NOS. 577/1 & 577/1A (DOCUMENT), S.NO.577/39
10. *(PATTA) OF NEDUNKUNDRAM VILLAGE WITHIN THE LIMITS OF KATTANKULATHUR PANCHAYAT
11. * UNION.
12. *ENGINEER NAME SURESH
13. CHECKER NAME SURESH
14. APPROVED NAME SURESH
15. ENGINEER DATE 3/14/2026
16. CHECKER DATE 3/14/2026
17. APPROVED DATE 3/14/2026
18. END JOB INFORMATION
19. INPUT WIDTH 79
20. UNIT METER KN
21. JOINT COORDINATES
22. 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
23. 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
24. 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
25. 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
26. 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
27. 77 -5 14 0; 78 -1.5 14 0; 79 2.2 14 0; 80 5.9 14 0; 81 9.6 14 0; 82 -5 17 0
28. 83 -1.5 17 0; 84 2.2 17 0; 85 5.9 17 0; 86 9.6 17 0
29. MEMBER INCIDENCES
30. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 43 26 28; 44 27 29; 45 28 29; 55 1 36
31. 56 26 37; 57 28 38; 61 36 37; 62 37 38; 66 36 42; 67 37 43; 68 38 44; 72 42 43
32. 73 43 44; 96 28 57; 97 29 58; 98 57 58; 99 57 59; 100 38 59; 101 59 60
33. 102 44 60; 107 57 63; 108 58 64; 109 63 64; 110 63 65; 111 59 65; 112 65 66
34. 113 60 66; 114 42 67; 115 43 68; 116 44 69; 117 67 68; 118 68 69; 119 60 70
35. 120 69 70; 121 66 71; 122 70 71; 123 67 72; 124 68 73; 125 69 74; 126 72 73
36. 127 73 74; 128 70 75; 129 74 75; 130 71 76; 131 75 76; 132 72 77; 133 73 78
37. 134 74 79; 135 77 78; 136 78 79; 137 75 80; 138 79 80; 139 76 81; 140 80 81
38. 141 77 82; 142 78 83; 143 79 84; 144 82 83; 145 83 84; 146 80 85; 147 84 85

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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
 Reg. No. RSE100382019
 Reg. No. CGLDIST/ SE/ Gr-I/ 2024/ 07/ 005

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39. 148 81 86; 149 85 86
 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. END DEFINE MATERIAL
 48. MEMBER PROPERTY INDIAN
 49. 39 42 45 55 TO 57 66 TO 68 98 99 101 109 110 112 114 TO 116 119 121. -
 50. 123 TO 125 128 130 132 TO 134 137 139 141 TO 143 146 -
 51. 148 PRIS YD 0.8 ZD 0.3
 52. 40 41 43 44 61 62 72 73 96 97 100 102 107 108 111 113 117 118 120 122 126 -
 53. 127 129 131 135 136 138 140 144 145 147 149 PRIS YD 0.6 ZD 0.2
 54. CONSTANTS
 55. MATERIAL CONCRETE ALL
 56. SUPPORTS
 57. 25 27 29 58 64 FIXED
 58. DEFINE 1893 LOAD
 59. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DM 0.5
 60. MEMBER WEIGHT
 61. 39 TO 45 55 TO 57 61 62 66 TO 68 72 73 96 TO 102 107 TO 149 UNI -14.5
 62. 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.

63. TYPE 1
 64. INT 0.673 1.03335 1.3537 1.65375 HEIG 10 30 50 100
 65. EXP 1 JOINT 1 25 TO 29 36 TO 38 42 TO 44 57 TO 60 63 TO 86
 66. LOAD 1 LOADTYPE NONE TITLE SLX1
 67. 1893 LOAD X 1
 68. LOAD 2 LOADTYPE NONE TITLE SLZ1
 69. 1893 LOAD Z 1
 70. LOAD 3 LOADTYPE DEAD TITLE DL
 71. SELFWEIGHT Y -1
 72. MEMBER LOAD
 73. 40 43 61 62 72 73 96 100 102 107 111 113 117 118 120 122 126 127 129 131 135 -
 74. 136 138 140 144 145 147 149 UNI GY -25
 75. LOAD 4 LOADTYPE LIVE TITLE LL
 76. MEMBER LOAD
 77. 40 43 61 62 72 73 96 100 102 107 111 113 117 118 120 122 126 127 129 131 135 -
 78. 136 138 140 144 145 147 149 UNI GY -15
 79. LOAD 7 LOADTYPE WIND TITLE WLZ1
 80. WIND LOAD Z 1 TYPE 1



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81. LOAD 8 LOADTYPE WIND TITLE WLZ2
 82. WIND LOAD Z -1 TYPE 1
 83. LOAD COMB 9 1.5(DL+LL)
 84. 3 1.5 4 1.5
 85. LOAD COMB 10 1.2(DL+LL+SLX)
 86. 3 1.2 4 1.2 1 1.2
 87. LOAD COMB 11 1.2(DL+LL+SLZ)
 88. 3 1.2 4 1.2 2 1.2
 89. LOAD COMB 14 1.2(DL+LL+WLZ1)
 90. 3 1.2 4 1.2 7 1.2
 91. LOAD COMB 15 1.2(DL+LL+WLZ2)
 92. 3 1.2 4 1.2 8 1.2
 93. LOAD COMB 16 1.5(DL+SLX)
 94. 3 1.5 1 1.5
 95. LOAD COMB 17 1.5(DL+SLZ)
 96. 3 1.5 2 1.5
 97. LOAD COMB 20 1.5(DL+WLZ1)
 98. 3 1.5 7 1.5
 99. LOAD COMB 21 1.5(DL+WLZ2)
 100. 3 1.5 8 1.5
 101. LOAD COMB 22 0.9DL+1.5SLX
 102. 3 0.9 1 1.5
 103. LOAD COMB 23 0.9DL+1.5SLZ
 104. 3 0.9 2 1.5
 105. LOAD COMB 26 0.9DL+1.5WLZ1
 106. 3 0.9 7 1.5
 107. LOAD COMB 27 0.9DL+1.5WLZ2
 108. 3 0.9 8 1.5
 109. PERFORM ANALYSIS

PROBLEM STATISTICS

NUMBER OF JOINTS	40	NUMBER OF MEMBERS	67
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 OUT-OF-CORE BASIC SOLVER

ORIGINAL/FINAL BAND-WIDTH=	11/	5/	36 DOF
TOTAL PRIMARY LOAD CASES =	6,	TOTAL DEGREES OF FREEDOM =	210
TOTAL LOAD COMBINATION CASES =	13	SO FAR.	
SIZE OF STIFFNESS MATRIX =	8	DOUBLE KILO-WORDS	
REQD/AVAIL. DISK SPACE =	12.2/1634365.2	MB	



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**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.

```
*****
* UNITS - KN    METE                      *
* TIME PERIOD FOR X 1893 LOADING =    0.73574 SEC      *
* SA/G PER 1893=    0.924, LOAD FACTOR= 1.000          *
* VB PER 1893=    0.0246 X    3216.10=    79.27 KN      *
*                                                    *
*****
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```
*****
* UNITS - KN    METE                      *
* TIME PERIOD FOR Z 1893 LOADING =    0.73574 SEC      *
* SA/G PER 1893=    0.924, LOAD FACTOR= 1.000          *
* VB PER 1893=    0.0246 X    3216.10=    79.27 KN      *
*                                                    *
*****
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110. FINISH

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

*** DATE= MAR 14,2026 TIME= 12:59:20 ***



Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
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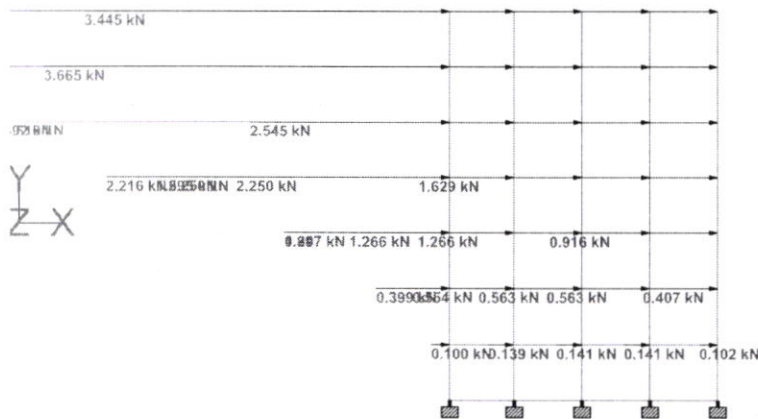
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Dr. J. SURESH, M.E., MIE., Ph.D.

Structural Engineer

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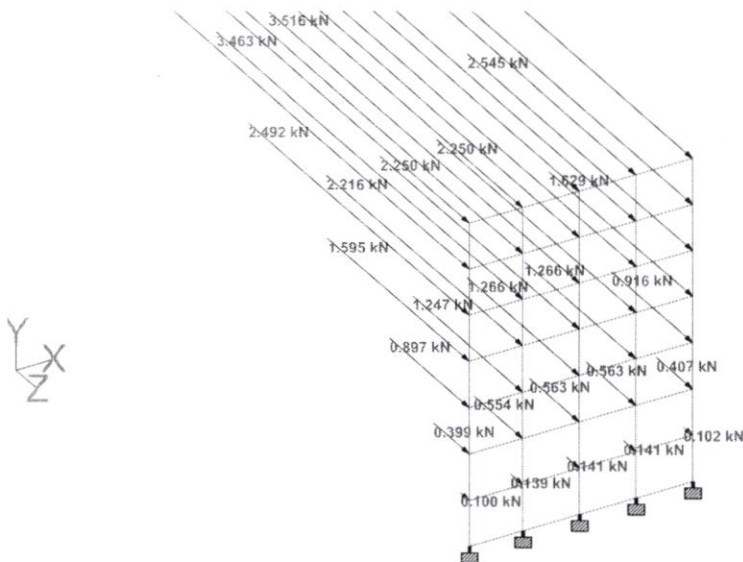
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Structural Engineer
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Uthandi, Chennai - 600 119.
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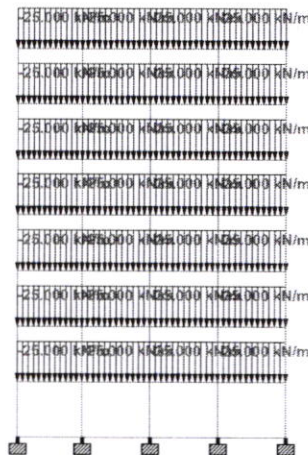
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Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
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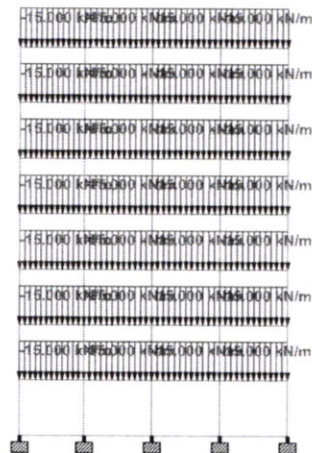
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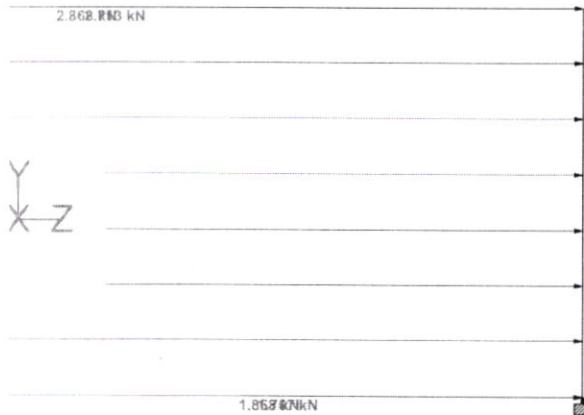
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Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
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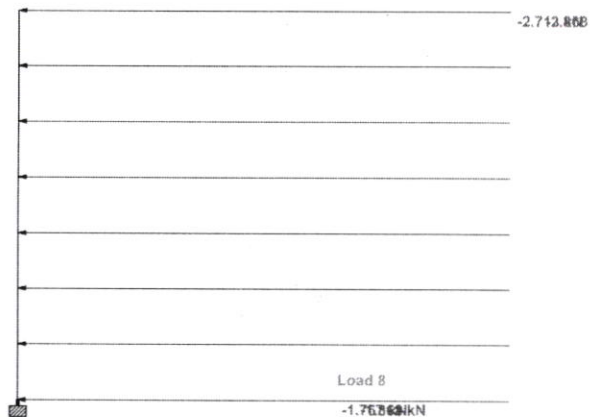
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Dr. J. SURESH, M.E., MIE., Ph.D.

Structural Engineer

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Uthandi, Chennai - 600 119.

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