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```
**************************************************
*                                                *
*                                                *
*          STAAD.Pro CONNECT Edition             *
*          Version  22.12.00.142                 *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    FEB  9, 2024                 *
*          Time=    14:39:31                     *
*                                                *
*                                                *
*  Licensed to: C.Kannan                         *
**************************************************
```

```
    1. STAAD SPACE
INPUT FILE: D:\LOGESH\STABILITY CERTIFICATE\SAGAES - ADYAR\SAGAES - ADYAR.STD
    2. START JOB INFORMATION
    3. ENGINEER DATE 09-FEB-24
    4. JOB NAME PROPOSED RESIDENTIAL BUILDING AT PLOT NO: 27 & 28, OLD DOOR NO: 2 & -
    5. 3, NEW DOOR NO: 3 & 5, 2ND STREET, BAKTHAVATCHALAM NAGAR, ADYAR, CHENNAI- -
    6. 600020. COMPRISED IN OLD S. NO: 14 PART, T. S. NO. 36 & 37, BLOCK NO: 15 OF -
    7. PALLIPATTU VILLAGE, WITH IN THE LIMIT OF GREATER CHENNAI CORPORATION
    8. ENGINEER NAME KANNAN
    9. CHECKER NAME KANNAN
   10. APPROVED NAME KANNAN
   11. CHECKER DATE 2/9/2024
   12. APPROVED DATE 2/9/2024
   13. END JOB INFORMATION
   14. INPUT WIDTH 79
   15. UNIT INCHES KN
   16. JOINT COORDINATES
   17. 1 0 0 0; 2 258 0 0; 3 395.012 0 0; 4 521.998 0 0; 5 814.998 0 0; 6 0 118.11 0
   18. 7 258 118.11 0; 8 395.012 118.11 0; 9 521.998 118.11 0; 10 814.998 118.11 0
   19. 11 0 236.22 0; 12 258 236.22 0; 13 395.012 236.22 0; 14 521.998 236.22 0
   20. 15 814.998 236.22 0; 16 0 354.331 0; 17 258 354.331 0; 18 395.012 354.331 0
   21. 19 521.998 354.331 0; 20 814.998 354.331 0; 21 0 472.441 0; 22 258 472.441 0
   22. 23 395.012 472.441 0; 24 521.998 472.441 0; 25 814.998 472.441 0
   23. 26 0 590.551 0; 27 258 590.551 0; 28 395.012 590.551 0; 29 521.998 590.551 0
   24. 30 814.998 590.551 0; 31 0 708.661 0; 32 258 708.661 0; 33 395.012 708.661 0
   25. 34 521.998 708.661 0; 35 814.998 708.661 0; 36 0 -118.11 0; 37 258 -118.11 0
   26. 38 395.012 -118.11 0; 39 521.998 -118.11 0; 40 814.998 -118.11 0
   27. MEMBER INCIDENCES
   28. 1 1 2; 2 2 3; 3 3 4; 4 4 5; 5 1 6; 6 2 7; 7 3 8; 8 4 9; 9 5 10; 10 6 7; 11 7 8
   29. 12 8 9; 13 9 10; 14 6 11; 15 7 12; 16 8 13; 17 9 14; 18 10 15; 19 11 12
   30. 20 12 13; 21 13 14; 22 14 15; 23 11 16; 24 12 17; 25 13 18; 26 14 19; 27 15 20
   31. 28 16 17; 29 17 18; 30 18 19; 31 19 20; 32 16 21; 33 17 22; 34 18 23; 35 19 24
   32. 36 20 25; 37 21 22; 38 22 23; 39 23 24; 40 24 25; 41 21 26; 42 22 27; 43 23 28
   33. 44 24 29; 45 25 30; 46 26 27; 47 27 28; 48 28 29; 49 29 30; 50 26 31; 51 27 32
   34. 52 28 33; 53 29 34; 54 30 35; 55 31 32; 56 32 33; 57 33 34; 58 34 35; 59 36 1
   35. 60 37 2; 61 38 3; 62 39 4; 63 40 5
   36. UNIT METER KN
   37. DEFINE MATERIAL START
   38. ISOTROPIC CONCRETE
```

C. KANNAN, B.E., M.E., (Structure)
Structural Engineer,
CMDA Reg. No: SE/GR-I/19/02/002.
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

STAAD SPACE -- PAGE NO. 2

```
39. E 2.17185E+07
40. POISSON 0.17
41. DENSITY 23.5616
42. ALPHA 1E-05
43. DAMP 0.05
44. G 9.28139E+06
45. TYPE CONCRETE
46. STRENGTH FCU 27579
47. END DEFINE MATERIAL
48. MEMBER PROPERTY
49. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 57 -
50. 58 PRIS YD 0.45 ZD 0.23
51. 5 TO 9 14 TO 18 23 TO 27 32 TO 36 41 TO 45 50 TO 54 59 TO 62 -
52. 63 PRIS YD 0.45 ZD 0.23
53. CONSTANTS
54. MATERIAL CONCRETE ALL
55. UNIT INCHES KN
56. SUPPORTS
57. 36 TO 40 FIXED
58. UNIT METER KN
59. DEFINE IS1893 2016 LOAD
60. ZONE 0.16 RF 5 I 1 SS 1 ST 1 DM 0.05 DT 3
61. SELFWEIGHT 1
62. MEMBER WEIGHT
63. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 58 UNI 12 0 0
64. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 58 UNI 35 0 0
65. 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.

66. TYPE 1 WIND 1
67. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
68. CUSTOM:PARAMS
69. !> END GENERATED DATA BLOCK
70. INT 1.35 1.54 1.78 HEIG  10  15  18
71. EXP 1 JOINT 1 TO 40
72. LOAD 1 LOADTYPE SEISMIC-H  TITLE EQ +X
73. 1893 LOAD X 1
74. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQ -X
75. 1893 LOAD X -1.
76. LOAD 3 LOADTYPE SEISMIC-H  TITLE EQ +Z
77. 1893 LOAD Z 1
78. LOAD 4 LOADTYPE SEISMIC-H  TITLE EQ -Z
79. 1893 LOAD Z -1.
```

STAAD SPACE

-- PAGE NO. 3

```
  80. LOAD 5 LOADTYPE WIND  TITLE WIND +X
  81. WIND LOAD X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
  82. LOAD 6 LOADTYPE WIND  TITLE WIND -X
  83. WIND LOAD -X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
  84. LOAD 7 LOADTYPE WIND  TITLE WIND +Z
  85. WIND LOAD Z 1 TYPE 1
  86. LOAD 8 LOADTYPE WIND  TITLE WIND -Z
  87. WIND LOAD -Z 1 TYPE 1
  88. LOAD 9 LOADTYPE LIVE  TITLE LIVE LOAD
  89. MEMBER LOAD
  90. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 58 UNI GY -12
  91. LOAD 10 LOADTYPE DEAD  TITLE DEAD LOAD
  92. SELFWEIGHT Y -1
  93. MEMBER LOAD
  94. 1 TO 4 10 TO 13 19 TO 22 28 TO 31 37 TO 40 46 TO 49 55 TO 58 UNI GY -35
  95. LOAD COMB 11 1.5(DL+IL)
  96. 9 1.5 10 1.5
  97. LOAD COMB 12 1.2(DL+IL+ELX)
  98. 9 1.5 10 1.2 1 1.2
  99. LOAD COMB 13 1.2(DL+IL-ELX)
 100. 9 1.2 10 1.2 2 1.2
 101. LOAD COMB 14 1.2(DL+IL+ELZ)
 102. 9 1.2 10 1.2 3 1.2
 103. LOAD COMB 15 1.2(DL+IL-ELZ)
 104. 9 1.2 10 1.2 4 1.2
 105. LOAD COMB 16 1.2(DL+IL+WLX)
 106. 9 1.2 10 1.2 5 1.2
 107. LOAD COMB 17 1.2(DL+IL-WLX)
 108. 10 1.2 6 1.2
 109. LOAD COMB 18 1.2(DL+IL+WLZ)
 110. 9 1.2 10 1.2 7 1.2
 111. LOAD COMB 19 1.2(DL+IL-WLZ)
 112. 9 1.2 10 1.2 8 1.2
 113. LOAD COMB 20 1.5(DL+ELX)
 114. 9 1.5 10 1.5 1 1.5
 115. LOAD COMB 21 1.5(DL-ELX)
 116. 9 1.5 10 1.5 2 1.5
 117. LOAD COMB 22 1.5(DL+ELZ)
 118. 9 1.5 10 1.5 3 1.5
```

```
119. LOAD COMB 23 1.5(DL-ELZ)
120. 10 1.5 4 1.5
121. LOAD COMB 24 1.5(DL+WLX)
122. 10 1.5 5 1.5
123. LOAD COMB 25 1.5(DL-WLX)
124. 10 1.5 6 1.5
125. LOAD COMB 26 1.5(DL+WLZ)
126. 10 1.5 7 1.5
127. LOAD COMB 27 1.5(DL-WLZ)
128. 10 1.5 8 1.5
129. LOAD COMB 28 0.9 DL+ELX
130. 10 0.9 1 1.5
131. LOAD COMB 29 0.9 DL-ELX
132. 10 0.9 2 1.5
133. LOAD COMB 30 0.9 DL+ELZ
134. 10 0.9 3 1.5
135. LOAD COMB 31 0.9 DL-ELZ
136. 10 0.9 4 1.5
137. LOAD COMB 32 0.9 DL+WLX
138. 10 0.9 5 1.5
139. LOAD COMB 33 0.9 DL-WLX
140. 10 0.9 6 1.5
141. LOAD COMB 34 0.9 DL+WLZ
142. 10 0.9 7 1.5
143. LOAD COMB 35 0.9 DL-WLZ
144. 10 0.9 8 1.5
145. PERFORM ANALYSIS PRINT ALL
```

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

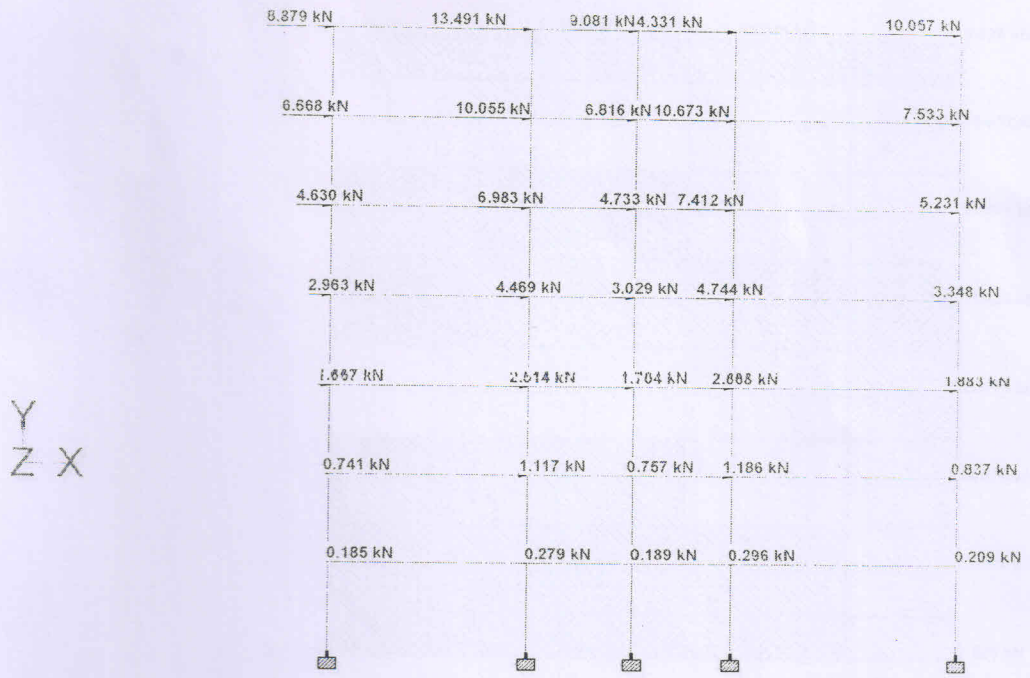
NUMBER OF JOINTS	40	NUMBER OF MEMBERS	63
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	5

Using 64-bit analysis engine.

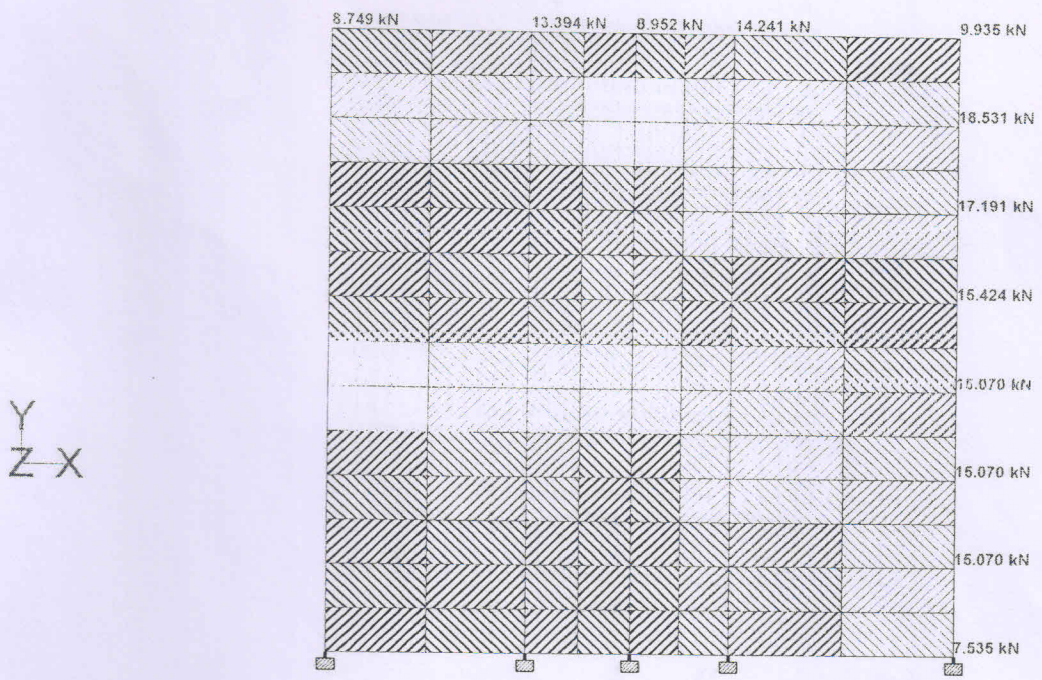
SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 10, TOTAL DEGREES OF FREEDOM = 210
TOTAL LOAD COMBINATION CASES = 25 SO FAR.

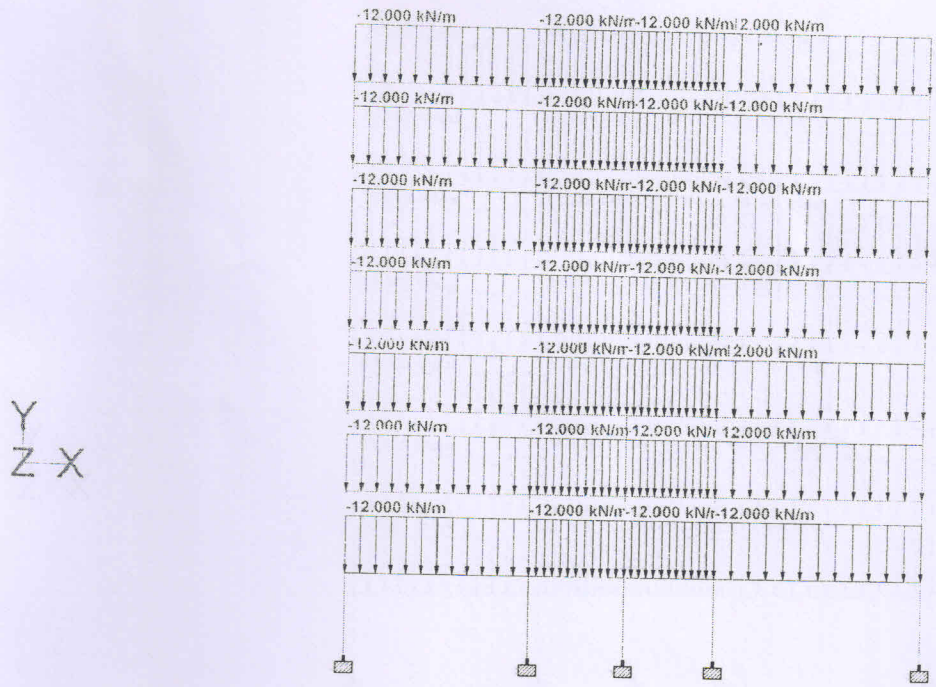
C. KANNAN, B.E., M.E., (Structure)
Structural Engineer,
CMDA Reg. No: SE/GR-I/19/02/002.
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.



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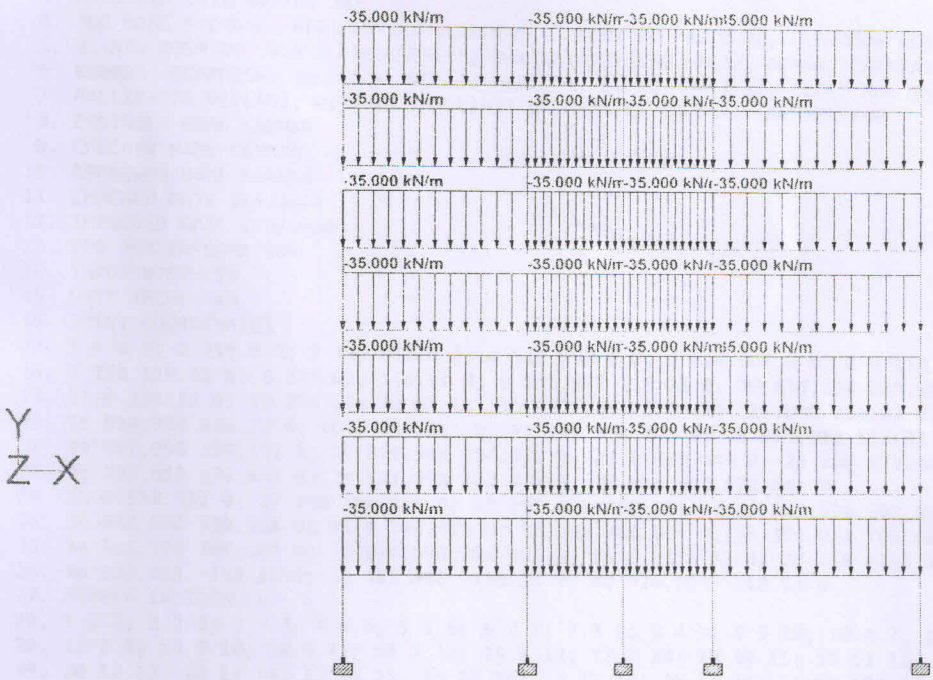

8.749 kN
13.394 kN
8.952 kN
14.241 kN
9.935 kN
18.531 kN
17.191 kN
15.424 kN
15.070 kN
15.070 kN
15.070 kN
7.535 kN
Y
Z
X

Load 7



Load 9

Software licensed to C Kannan CONNECTED User Kannan Chinnasamy	Job No	Sheet No 1	Rev
	Part		
Job Title Proposed Residential Building at Plot No: 27 & 28, Old Door No: 2 & 3, New Door No: 3 & 5, 2nd Street, Bakthavatchalam Nagar, Adyar, Chennai- 600020.	Ref		
	By Kannan	Date 09-Feb-24	Chd Kannan
Client	File SAGAES - ADYAR.STD	Date/Time 09-Feb-2024 14:39	



Load 10

C. KANNAN, B.E., M.E., (Structure)
Structural Engineer,
CMDA Reg. No: SE/GR-I/19/02/002.
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.



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We're honored to be part of your real estate journey

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