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**************************************************
*                                                *
*           STAAD.Pro CONNECT Edition            *
*           Version  22.10.00.153                *
*           Proprietary Program of               *
*           Bentley Systems, Inc.                *
*           Date=    MAR 10, 2025                *
*           Time=    13:15:46                    *
*                                                *
*  Licensed to: Universal Consultants            *
**************************************************
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```
     1. STAAD SPACE
INPUT FILE: C:\Users\suresh\Desktop\STAAD\UC-DAC AYYAPANTHANGAL\AYYAPANTHANGAL.STD
     2. START JOB INFORMATION
     3. JOB NAME THE PROPOSED CONSTRUCTION OF STILT FLOORS + 5 FLOORS (HEIGHT-18.30M)
     4. *RESIDENTIAL BUILDING WITH 165 DWELLING UNITS (AFFORADABLE HOUSING) (SWIMMING
     5. *POOL, INDOOR GAMES ROOM,  ASSOCIATION ROOM, VIDEO GAMES ROOM,  GYM) AT
     6. *AYYAPPANTHANGAL,  CHENNAI. COMPRISED IN S.NOS. 182/6C,  183/5,  183/6,  183/7A
     7. *183/7B,  183/8,  184,  185 OF AYYAPANTHANGAL VILLAGE,  KUNRATHUR TALUK,  WITHI
     8. *THE LIMIT OF KUNRATHUR PANCHAT UNION.
     9. ENGINEER NAME SURESH
    10. CHECKER NAME SURESH
    11. APPROVED NAME SURESH
    12. ENGINEER DATE 11/11/2024
    13. CHECKER DATE 11/11/2024
    14. APPROVED DATE 11/11/2024
    15. END JOB INFORMATION
    16. INPUT WIDTH 79
    17. UNIT METER KN
    18. JOINT COORDINATES
    19. 1 -10.26 -1.45 0; 25 -10.26 -4.45 0; 26 -5.46 -1.45 0; 27 -5.46 -4.45 0
    20. 36 -10.26 1.55 0; 37 -5.46 1.55 0; 66 -14.44 -1.45 0; 67 -14.44 -4.45 0
    21. 68 -14.44 1.55 0; 69 -19.54 -1.45 0; 70 -19.54 -4.45 0; 71 -19.54 1.55 0
    22. 72 -10.26 4.55 0; 73 -5.46 4.55 0; 74 -14.44 4.55 0; 75 -19.54 4.55 0
    23. 76 -10.26 7.55 0; 77 -5.46 7.55 0; 78 -14.44 7.55 0; 79 -19.54 7.55 0
    24. 80 -10.26 10.55 0; 81 -5.46 10.55 0; 82 -14.44 10.55 0; 83 -19.54 10.55 0
    25. 84 -10.26 13.55 0; 85 -5.46 13.55 0; 86 -14.44 13.55 0; 87 -19.54 13.55 0
    26. MEMBER INCIDENCES
    27. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 55 1 36; 56 26 37; 61 36 37; 111 66 67
    28. 112 66 1; 113 67 25; 114 66 68; 115 68 36; 116 69 70; 117 69 66; 118 70 67
    29. 119 69 71; 120 71 68; 121 36 72; 122 37 73; 123 72 73; 124 68 74; 125 74 72
    30. 126 71 75; 127 75 74; 128 72 76; 129 73 77; 130 76 77; 131 74 78; 132 78 76
    31. 133 75 79; 134 79 78; 135 76 80; 136 77 81; 137 80 81; 138 78 82; 139 82 80
    32. 140 79 83; 141 83 82; 142 80 84; 143 81 85; 144 84 85; 145 82 86; 146 86 84
    33. 147 83 87; 148 87 86
    34. DEFINE MATERIAL START
    35. ISOTROPIC CONCRETE
    36. E 2.17185E+07
    37. POISSON 0.17
    38. DENSITY 23.5616
```



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

STAAD SPACE -- PAGE NO. 2

```
39. ALPHA 1E-05
40. DAMP 0.05
41. END DEFINE MATERIAL
42. MEMBER PROPERTY INDIAN
43. 40 41 61 112 113 115 117 118 120 123 125 127 130 132 134 137 139 141 144 146 -
44. 148 PRIS YD 0.6 ZD 0.2
45. MEMBER PROPERTY INDIAN
46. 39 42 55 56 111 114 116 119 121 122 124 126 128 129 131 133 135 136 138 140 -
47. 142 143 145 147 PRIS YD 0.6 ZD 0.2
48. CONSTANTS
49. MATERIAL CONCRETE ALL
50. SUPPORTS
51. 25 27 67 70 FIXED
52. DEFINE 1893 LOAD
53. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DM 0.5
54. MEMBER WEIGHT
55. 39 TO 42 55 56 61 111 TO 148 UNI -14.5
56. 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.

57. TYPE 1
58. INT 0.673 1.03335 1.3537 1.65375 HEIG  10  30  50  100
59. EXP 1 JOINT 1 25 TO 27 36 37 66 TO 87
60. LOAD 1 LOADTYPE NONE  TITLE SLX1
61. 1893 LOAD X 1
62. LOAD 2 LOADTYPE NONE  TITLE SLZ1
63. 1893 LOAD Z 1
64. LOAD 3 LOADTYPE DEAD  TITLE DL
65. SELFWEIGHT Y -1
66. MEMBER LOAD
67. 40 61 112 115 117 120 123 125 127 130 132 134 137 139 141 144 146 -
68. 148 UNI GY -25
69. LOAD 4 LOADTYPE LIVE  TITLE LL
70. MEMBER LOAD
71. 40 61 112 115 117 120 123 125 127 130 132 134 137 139 141 144 146 -
72. 148 UNI GY -15
73. LOAD 7 LOADTYPE WIND  TITLE WLZ1
74. WIND LOAD Z 1 TYPE 1
75. LOAD 8 LOADTYPE WIND  TITLE WLZ2
76. WIND LOAD Z -1 TYPE 1
77. LOAD COMB 9 1.5(DL+LL)
```



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```
 78. 3 1.5 4 1.5
 79. LOAD COMB 10 1.2(DL+LL+SLX)
 80. 3 1.2 4 1.2 1 1.2
 81. LOAD COMB 11 1.2(DL+LL+SLZ)
 82. 3 1.2 4 1.2 2 1.2
 83. LOAD COMB 14 1.2(DL+LL+WLZ1)
 84. 3 1.2 4 1.2 7 1.2
 85. LOAD COMB 15 1.2(DL+LL+WLZ2)
 86. 3 1.2 4 1.2 8 1.2
 87. LOAD COMB 16 1.5(DL+SLX)
 88. 3 1.5 1 1.5
 89. LOAD COMB 17 1.5(DL+SLZ)
 90. 3 1.5 2 1.5
 91. LOAD COMB 20 1.5(DL+WLZ1)
 92. 3 1.5 7 1.5
 93. LOAD COMB 21 1.5(DL+WLZ2)
 94. 3 1.5 8 1.5
 95. LOAD COMB 22 0.9DL+1.5SLX
 96. 3 0.9 1 1.5
 97. LOAD COMB 23 0.9DL+1.5SLZ
 98. 3 0.9 2 1.5
 99. LOAD COMB 26 0.9DL+1.5WLZ1
100. 3 0.9 7 1.5
101. LOAD COMB 27 0.9DL+1.5WLZ2
102. 3 0.9 8 1.5
103. PERFORM ANALYSIS


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

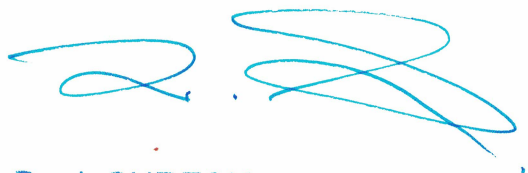
  NUMBER OF JOINTS         28  NUMBER OF MEMBERS      45
  NUMBER OF PLATES          0  NUMBER OF SOLIDS        0
  NUMBER OF SURFACES        0  NUMBER OF SUPPORTS      4

        Using 64-bit analysis engine.

        SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

 TOTAL      PRIMARY LOAD CASES =     6, TOTAL DEGREES OF FREEDOM =     144
 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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STAAD SPACE -- PAGE NO. 4

```
*******************************************************
* 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     2473.12=      68.42 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     2473.12=      68.42 KN  *
*                                                     *
*******************************************************
```

104. FINISH

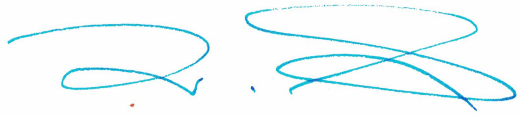
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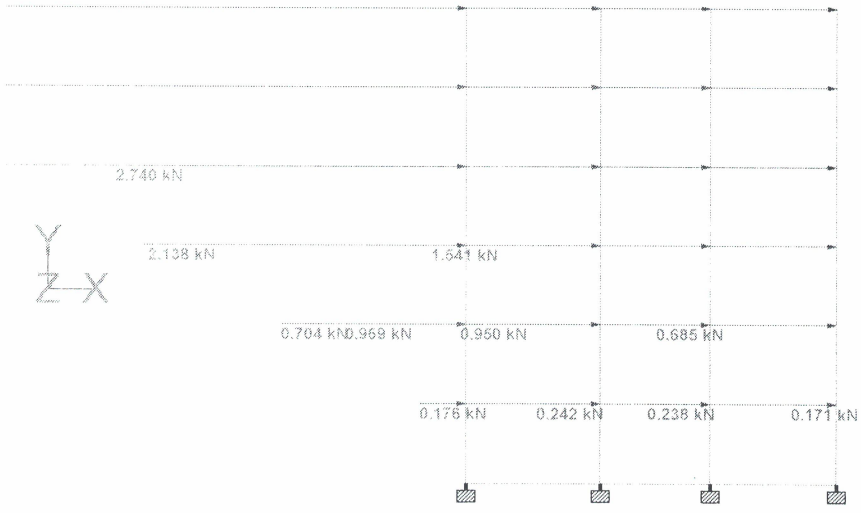
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STAAD SPACE -- PAGE NO. 5

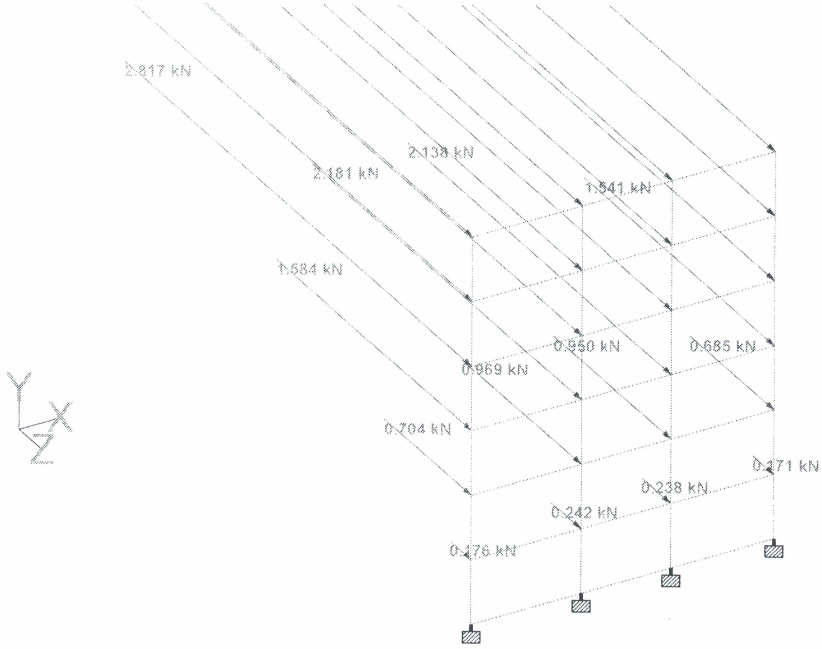
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*   http://www.bentley.com/en/support/                      *
*                                                           *
*   Details about additional assistance from                *
*   Bentley and Partners can be found at program menu       *
*   Help->Technical Support                                 *
*                                                           *
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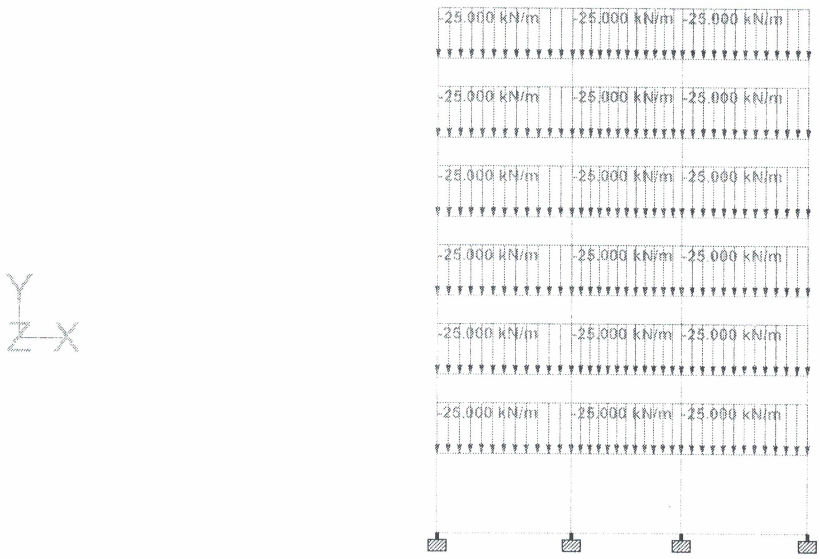
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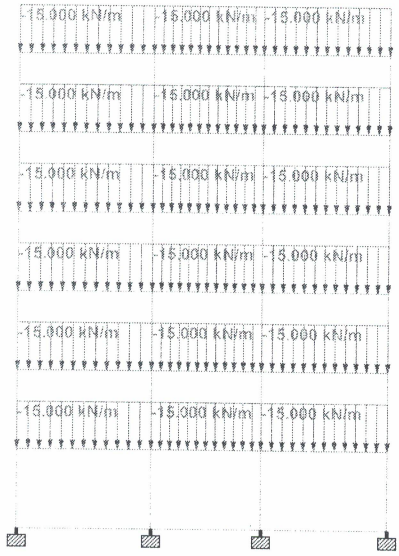
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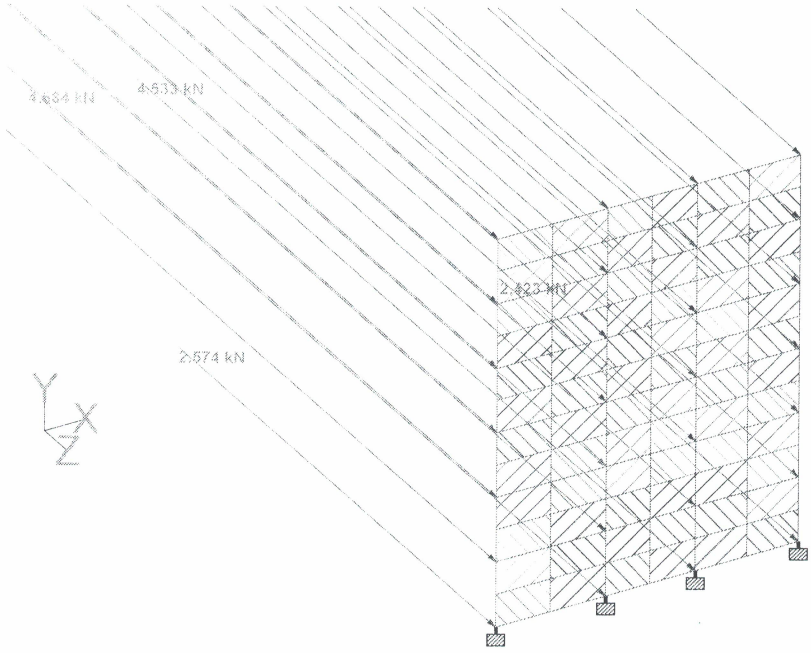
Dr. J. SURESH, M.E., MIE., Ph.D.
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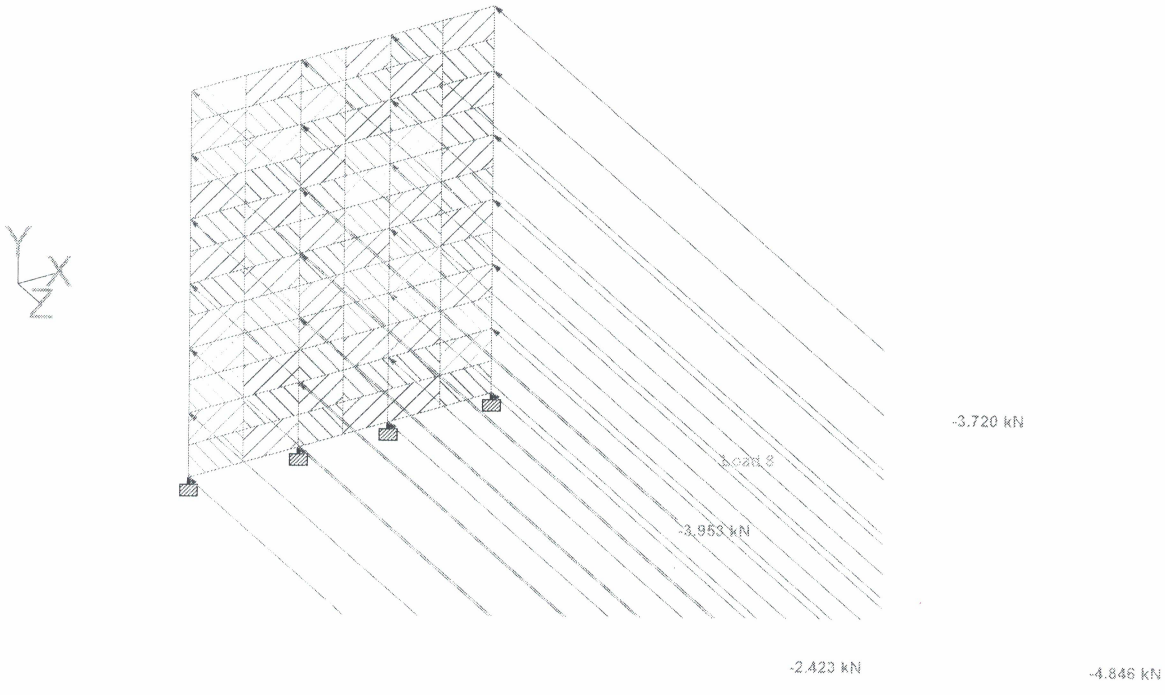
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Load 7

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	Part		
Job Title the proposed Construction of Stilt Floors + 5 Floors (Height-18.30m)	Ref		
	By Suresh	Date 11/11/2024	Chd Suresh
Client	File AYYAPANTHANGAL.std	Date/Time 10-Mar-2025 13:05	



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