

```

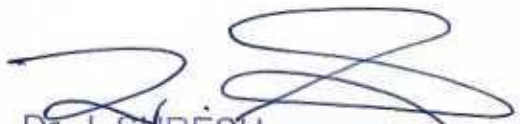
*****
*
*      STAAD.Pro CONNECT Edition
*      Version 22.00.00.15
*      Proprietary Program of
*      Bentley Systems, Inc.
*      Date=   MAR 24, 2026
*      Time=   12:38:53
*
*      Licensed to: only @ ::LAVTeam:: (R)
*****

```

1. STAAD SPACE

INPUT FILE: I:\1.MISCELLANEOUS\STABILITY CERTIFICATE\UC-FELIXA KELAMBAKKAM\FELIXA RAVARAA KELAMBAKKAM.STD

2. START JOB INFORMATION
3. JOB NAME THE PROPOSED CONSTRUCTION OF NON HIGH RISE GROUP DEVELOPMENT CONSISTS
4. * OF 13 BLOCKS, BLOCK 1 TO 11 : GROUND FLOOR + FIRST FLOOR, TOTALLY 117 D/U,
5. * CLUBHOUSE BLOCK 12 : GROUND FLOOR + FIRST FLOOR + SECOND FLOOR & SWIMMING POOL
6. * ASIDE, CHANGE ROOM & SHOWER ROOM ON THE GROUND FLOOR, SHOP & METER ROOM BLOCK
7. * 13 : GROUND FLOOR, COMPRISED IN S.NOS.478/1A1A1A1A1, 478/1A1B & 478/1A2B OF
8. * THAIYUR -A VILLAGE, THIRUPORUR TALUK, CHENGALPET DISTRICT (FELIXA RAVARAA).
9. ENGINEER NAME SURESH
10. CHECKER NAME SURESH
11. APPROVED NAME SURESH
12. ENGINEER DATE 3/24/2026
13. CHECKER DATE 3/24/2026
14. APPROVED DATE 3/24/2026
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. MEMBER INCIDENCES
23. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 55 1 36; 56 26 37; 61 36 37; 111 66 67
24. 112 66 1; 113 67 25; 114 66 68; 115 68 36; 116 69 70; 117 69 66; 118 70 67
25. 119 69 71; 120 71 68
26. DEFINE MATERIAL START
27. ISOTROPIC CONCRETE
28. E 2.17185E+07
29. POISSON 0.17
30. DENSITY 23.5616
31. ALPHA 1E-05
32. DAMP 0.05
33. END DEFINE MATERIAL
34. MEMBER PROPERTY INDIAN
35. 40 41 61 112 113 115 117 118 120 PRIS YD 0.6 ZD 0.2
36. MEMBER PROPERTY INDIAN
37. 39 42 55 56 111 114 116 119 PRIS YD 0.6 ZD 0.2
38. CONSTANTS


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

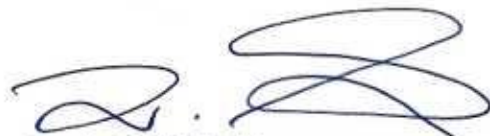
STAAD SPACE

-- PAGE NO. 2

39. MATERIAL CONCRETE ALL
 40. SUPPORTS
 41. 25 27 67 70 FIXED
 42. DEFINE 1893 LOAD
 43. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DM 0.5
 44. MEMBER WEIGHT
 45. 39 TO 42 55 56 61 111 TO 120 UNI -14.5
 46. 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.

47. TYPE 1
 48. INT 0.673 1.03335 1.3537 1.65375 HEIG 10 30 50 100
 49. EXP 1 JOINT 1 25 TO 27 36 37 66 TO 71
 50. LOAD 1 LOADTYPE NONE TITLE SLX1
 51. 1893 LOAD X 1
 52. LOAD 2 LOADTYPE NONE TITLE SLZ1
 53. 1893 LOAD Z 1
 54. LOAD 3 LOADTYPE DEAD TITLE DL
 55. SELFWEIGHT Y -1
 56. MEMBER LOAD
 57. 40 61 112 115 117 120 UNI GY -25
 58. LOAD 4 LOADTYPE LIVE TITLE LL
 59. MEMBER LOAD
 60. 40 61 112 115 117 120 UNI GY -15
 61. LOAD 7 LOADTYPE WIND TITLE WLZ1
 62. WIND LOAD Z 1 TYPE 1
 63. LOAD 8 LOADTYPE WIND TITLE WLZ2
 64. WIND LOAD Z -1 TYPE 1
 65. LOAD COMB 9 1.5(DL+LL)
 66. 3 1.5 4 1.5
 67. LOAD COMB 10 1.2(DL+LL+SLX)
 68. 3 1.2 4 1.2 1 1.2
 69. LOAD COMB 11 1.2(DL+LL+SLZ)
 70. 3 1.2 4 1.2 2 1.2
 71. LOAD COMB 14 1.2(DL+LL+WLZ1)
 72. 3 1.2 4 1.2 7 1.2
 73. LOAD COMB 15 1.2(DL+LL+WLZ2)
 74. 3 1.2 4 1.2 8 1.2
 75. LOAD COMB 16 1.5(DL+SLX)
 76. 3 1.5 1 1.5
 77. LOAD COMB 17 1.5(DL+SLZ)



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

STAAD SPACE

-- PAGE NO. 3

```

78. 3 1.5 2 1.5
79. LOAD COMB 20 1.5(DL+WLZ1)
80. 3 1.5 7 1.5
81. LOAD COMB 21 1.5(DL+WLZ2)
82. 3 1.5 8 1.5
83. LOAD COMB 22 0.9DL+1.5SLX
84. 3 0.9 1 1.5
85. LOAD COMB 23 0.9DL+1.5SLZ
86. 3 0.9 2 1.5
87. LOAD COMB 26 0.9DL+1.5WLZ1
88. 3 0.9 7 1.5
89. LOAD COMB 27 0.9DL+1.5WLZ2
90. 3 0.9 8 1.5
91. PERFORM ANALYSIS

```

PROBLEM STATISTICS

NUMBER OF JOINTS	12	NUMBER OF MEMBERS	17
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 OUT-OF-CORE BASIC SOLVER

```

ORIGINAL/FINAL BAND-WIDTH= 6/ 3/ 18 DOF
TOTAL PRIMARY LOAD CASES = 6, TOTAL DEGREES OF FREEDOM = 48
TOTAL LOAD COMBINATION CASES = 13 SO FAR.
SIZE OF STIFFNESS MATRIX = 1 DOUBLE KILO-WORDS
REQRD/AVAIL. DISK SPACE = 12.0/1442492.4 MB

```

**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 = 0.28752 SEC *
* SA/G PER 1893= 1.250, LOAD FACTOR= 1.000 *
* VB PER 1893= 0.0333 X 960.48= 32.02 KN *
*
*****

```


 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

STAAD SPACE

-- PAGE NO. 4

```
*****
* UNITS - KN    METE                      *
* TIME PERIOD FOR Z 1893 LOADING =    0.28752 SEC      *
* SA/G PER 1893=    1.250, LOAD FACTOR= 1.000          *
* VB PER 1893=    0.0333 X    960.48=    32.02 KN      *
*                                                    *
*****
```

92. FINISH

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

**** DATE= MAR 24,2026 TIME= 12:38:54 ****

```
*****
* 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                            *
*                                                    *
* Copyright (c) 1997-2017 Bentley Systems, Inc.      *
* http://www.bentley.com                             *
*****
```



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



Software licensed to STAAD.Pro
CONNECTED User: Not signed in

Job No

Sheet No

1

Rev

Part

Job Title The proposed Construction of Non High Rise Group Development Consists

Ref

By Suresh

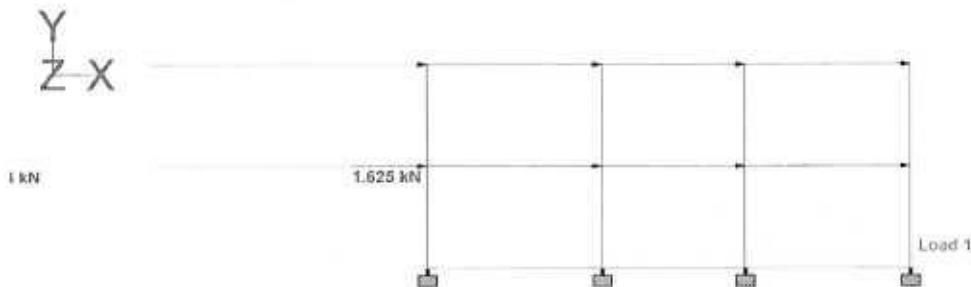
Date 3/24/2026

Chd Suresh

Client

File FELIXA RAVERAA KELA

Date/Time 24-Mar-2026 11:52




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. RSE100362019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005



Software licensed to STAAD.Pro
CONNECTED User: Not signed in

Job No

Sheet No

1

Rev

Part

Job Title The proposed Construction of Non High Rise Group Development Consists

Ref

By Suresh

Date 3/24/2026

Chd Suresh

Client

File FELIXA RAVERAA KELA

Date/Time 24-Mar-2026 11:52

Y
X-Z

66 kN

222544N 1167254N

Load 2

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



Software licensed to STAAD.Pro
CONNECTED User. Not signed in.

Job No

Sheet No

1

Rev

Part

Job Title The proposed Construction of Non High Rise Group Development Consists

Ref

By Suresh

Date 3/24/2026

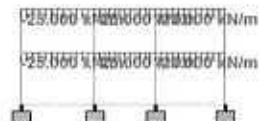
Chd Suresh

Client

File FELIXA RAVERAA KELA

Date/Time 24-Mar-2026 11:52

Y
Z-X



Load 3

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



Software licensed to STAAD Pro
CONNECTED User: Not signed in

Job No

Sheet No

1

Rev

Part

Job Title The proposed Construction of Non High Rise Group Development Consists

Ref

By Suresh

Date 3/24/2026

Chd Suresh

Client

File FELIXA RAVERAA KELA

Date/Time 24-Mar-2026 11:52

Y
X-Z

78.880 kN

2.578.880 kN

Load 7

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



Software licensed to STAAD.Pro
CONNECTED User. Not signed in

Job No

Sheet No

1

Rev

Part

Job Title The proposed Construction of Non High Rise Group Development Consists

Ref

By Suresh

Date 3/24/2026

Chd Suresh

Client

File FELIXA RAVERAA KELA

Date/Time 24-Mar-2026 11:52

Y
X-Z




Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
Reg. No. SE/1/2024/2/0014
Reg. No. RSE100382019
Reg. No. CGLDIST/ SE/ Gr-I/ 2024/ 07/ 005