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05-04-2024

CERTIFICATE

It is certified that the Proposed Construction of Residential Building Consisting of a Stilt Floor +5 Floor Comprised in S.F. NO : 398/2A2, 444/6 & 444/3A Keeranatham Village Coimbatore District 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)

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

Structural Engineer

Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.

Reg. No. SE/GR-I/19/02/003

Reg. No. RSE100382019

Reg. No. CGLRGN/SE/GR-1/2019/06/012



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New. No. 2/4, First Cross Street,
Indira Nagar, Adyar, Chennai - 600 020.

05-04-2024

THE PROPOSED CONSTRUCTION OF A RESIDENTIAL BUILDING CONSISTING OF A STILT FLOOR +5 FLOOR COMPRISED IN S.F.NO: 398/2A2, 444/6 & 444/3A KEERANATHAM VILLAGE COIMBATORE DISTRICT

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

The Proposed Residential Building having S + 5

The design of this building is carried out based on frame analysis using STAAD Pro V8i.

1.2 CODES AND STANDARDS

All structural design is carried out conforming to the provisions in National Building Code of India and other relevant Indian Codes and Standards.

1. I.S. 456
2. I.S. 875 - Part I to V
3. I.S.1893
4. I.S.13920

2.0 BASIC CIVIL DESIGN LOADS

2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Residential Building

Self weight of slab	=	3.0kN/m ²
Floor finish	=	2.0kN/m ²
Live load	=	2.0kN/m ²

		7.0kN/m ²



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3.0 SOIL DETAILS

Based on Soil Test Report Isolated Footing is adopted having SBC of 30t/sqm

4.0 DESIGN METHODS

General design and detailing of concrete members/elements are done conforming to the provisions of I.S: 456 and other relevant I.S codes. Limit State method is followed for the design.

Seismic Zone III load is taken into account for the analysis. The predominant direction of vibration is horizontal. Relevant combination of forces has been taken into account.

4.1

Load Combination	Ultimate Limit Load	Serviceability Limit State
DL+LL+WL Or DL+LL+EL	1.2DL+1.2LL+1.2WL Or 1.2DL+1.2LL+1.2EL	DL+LL+WL Or DL+LL+EL

4.2.1 MINIMUM COVER

Slab	15 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

Structure will be sound and stable when used for the purpose for which it is designed.


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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**

Part 1	General Data		
S.No.	Description	Information	Notes
1	Site Address	S.F.NO:398/2A2, 444/6&444/3A Keeranatham Village Coimbatore District	
2	Name of Owner	CASAGRANDE COIMBATORE LLP	
3	Name of Registered Developer along with the Registration Number	S.R. AMUDHASAKARAN CGLDIST/RD/2023/12/032	
4	Name of Registered Architect along with the Registration Number	K.P.Lenin CA/2009/45680	
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	Residential	
7	Number of stories above ground level (including story's to be added later, if any)	S+5 Floor	
8	Number of basements below ground level	Nil	
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	Sandy Silty Clay 30t/sqm	IS:1893 C1.6.3.5.2 IS: 1904 IS: 1892 IS: 2131 IS: 2720
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  Dr. J. SURESH, M.E., MIE., Ph.D. Structural Engineer Plot No. 555, VGP Layout, Mullai Street, Uthandi, Chennai - 600 119. Reg. No. SE/GR-I/19/02/003 Reg. No. RSE100382019 Reg. No. CGLRGN/SE/GR-I/2019/06/012

12	Imposed (live) loads		2 KN/m ²	IS: 875 Part 2
		Floor loads Roof loads		
13	Cyclone/Wind Speed Design pressure intensity		39 m/s	IS: 875 Part 3
14	Seismic zone		III	IS: 1893 (2002)
15	Importance factor		1.2	IS:1893(2002) Table 6
16	Seismic zone factor (Z)		0.16 (Zone – III)	IS:1893 Table 2
17	Response reduction factor		3	IS:1893 Table 7
18	Fundamental natural period – approx.		1	IS:1893 C1.7.6
19	Design horizontal acceleration spectrum value (Ah)		1.05	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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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	/	/

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"

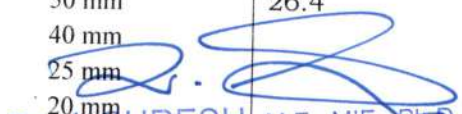
IP indicates "Information to be provided" NA indicates "Not Applicable"

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	Regular Frames	IS: 1893 C1 7.1
2	Number of basements	Nil	
3	Number of floors including ground floor	S+5	
4	Horizontal floor system Beams and slabs Waffles Ribbed floor Flat slab with drops	Beams and Slabs	


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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	Sandy silty Clay Independent footings 30t/sqm	IS: 1498
6	Foundations Depth below ground level Type Independent Interconnected Raft Piles	Independent	
7	System of interconnecting foundations Plinth beams Foundation beams	Plinth beams	IS: 1893 C1 7.12.1
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	1.2 1.1 1	IS: 1893 Cl. 7.5.3
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 & Pile • Column • Beams • Slabs	50 mm 40 mm 25 mm 20 mm	IS: 456 Cl. 26.4


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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	Fe 550 300 mm 300 mm 1% 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
17	Does the features require clearance by SDRP Example: High rise building Prefab building		

Foundation

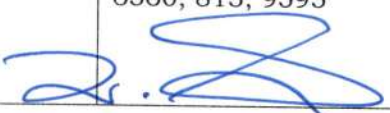
- In case raft foundation has been adopted, indicate K value used for analysis of the raft.
- In case pile foundations have been used, give full particulars of the piles, type, dia, length, capacity
- In case of high water table, indicate system of countering water pressure, and indicate the existing water table, and that assumed to design foundations.

Idealization for Earthquake analysis

- 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
- Indicate the idealization of frames and shear walls adopted in the analysis with the help of sketches.
- Submit framing plans of each floor
- In case of basements, indicate the system used to contain earth pressures.


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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 ○ Cold formed ○ Tubular	IS: 2062 IS: 8500 IS: 801, 811 IS: 806
10.	Minimum metal	○ Hot rolled sections	IS: 800, Cl.3.8
	thickness Specified for corrosion protection	○ Cold formed sections ○ Tubes	Cl.3.8.1 to Cl.3.8.4 Cl.3.8.5
1 1	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


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12	Minimum Fire rating proposed, with method	☐ Rating.....hours ☐ Method proposed. -In tumescent painting -Spraying -Quilting -Fire retardant boarding	IS: 1641, 1642, 1643
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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

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

Structural Engineer

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1. STAAD SPACE
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2. START JOB INFORMATION
3. JOB NAME THE PROPOSED CONSTRUCTION OF A RESIDENTIAL BUILDING CONSISTING OF A
4. *STILT FLOOR +5 FLOOR COMPRISED IN S.F.NO: 398/2A2, 444/6 & 444/3A KEERANATHAM
5. *VILLAGE COIMBATORE DISTRICT
6. ENGINEER NAME SURESH
7. CHECKER NAME SURESH
8. APPROVED NAME SURESH
9. ENGINEER DATE 4/5/2024
10. CHECKER DATE 4/5/2024
11. APPROVED DATE 4/5/2024
12. END JOB INFORMATION
13. INPUT WIDTH 79
14. UNIT METER KN
15. JOINT COORDINATES
16. 1 -10.26 -1.45 0; 25 -10.26 -4.45 0; 26 -5.46 -1.45 0; 27 -5.46 -4.45 0
17. 36 -10.26 1.55 0; 37 -5.46 1.55 0; 66 -14.44 -1.45 0; 67 -14.44 -4.45 0
18. 68 -14.44 1.55 0; 69 -19.54 -1.45 0; 70 -19.54 -4.45 0; 71 -19.54 1.55 0
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22. 84 -10.26 13.55 0; 85 -5.46 13.55 0; 86 -14.44 13.55 0; 87 -19.54 13.55 0
23. MEMBER INCIDENCES
24. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 55 1 36; 56 26 37; 61 36 37; 111 66 67
25. 112 66 1; 113 67 25; 114 66 68; 115 68 36; 116 69 70; 117 69 66; 118 70 67
26. 119 69 71; 120 71 68; 121 36 72; 122 37 73; 123 72 73; 124 68 74; 125 74 72
27. 126 71 75; 127 75 74; 128 72 76; 129 73 77; 130 76 77; 131 74 78; 132 78 76
28. 133 75 79; 134 79 78; 135 76 80; 136 77 81; 137 80 81; 138 78 82; 139 82 80
29. 140 79 83; 141 83 82; 142 80 84; 143 81 85; 144 84 85; 145 82 86; 146 86 84
30. 147 83 87; 148 87 86
31. DEFINE MATERIAL START
32. ISOTROPIC CONCRETE
33. E 2.17185E+07
34. POISSON 0.17
35. DENSITY 23.5616
36. ALPHA 1E-05
37. DAMP 0.05
38. END DEFINE MATERIAL

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39. MEMBER PROPERTY INDIAN
 40. 40 41 61 112 113 115 117 118 120 123 125 127 130 132 134 137 139 141 144 146 -
 41. 148 PRIS YD 0.6 ZD 0.2
 42. MEMBER PROPERTY INDIAN
 43. 39 42 55 56 111 114 116 119 121 122 124 126 128 129 131 133 135 136 138 140 -
 44. 142 143 145 147 PRIS YD 0.8 ZD 0.2
 45. CONSTANTS
 46. MATERIAL CONCRETE ALL
 47. SUPPORTS
 48. 25 27 67 70 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 42 55 56 61 111 TO 148 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 27 36 37 66 TO 87
 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 61 112 115 117 120 123 125 127 130 132 134 137 139 141 144 146 -
 65. 148 UNI GY -25
 66. LOAD 4 LOADTYPE LIVE TITLE LL
 67. MEMBER LOAD
 68. 40 61 112 115 117 120 123 125 127 130 132 134 137 139 141 144 146 -
 69. 148 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

PROBLEM STATISTICS

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

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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 2473.12= 68.42 KN
*
```

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*****
* 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
*
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101. FINISH

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

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CONSISTING OF A

Ref

By Suresh

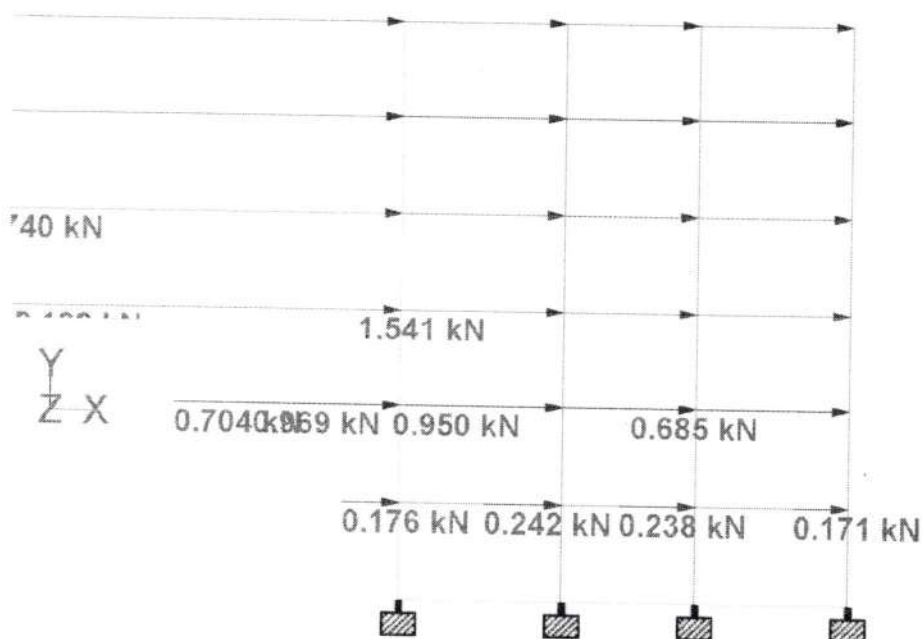
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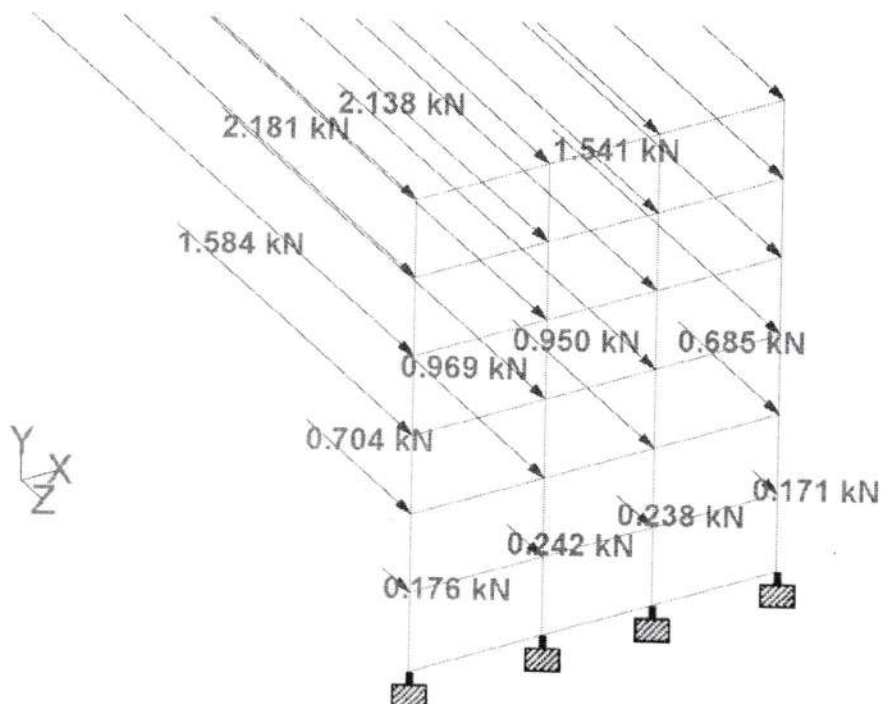
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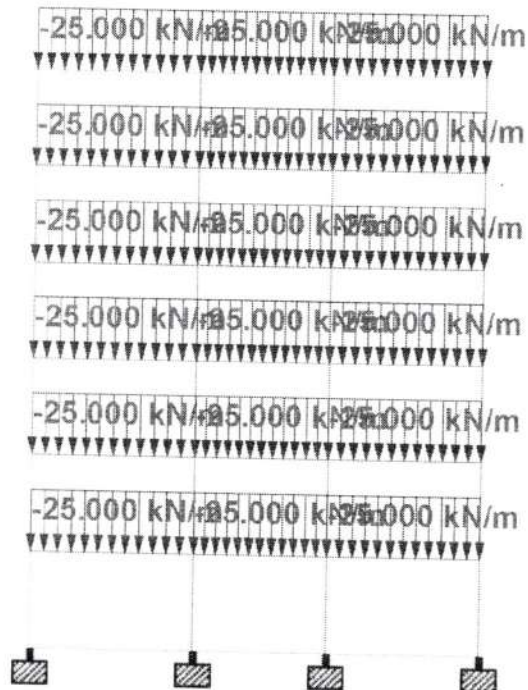
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Job Title THE PROPOSED CONSTRUCTION OF A RESIDENTIAL BUILDING
CONSISTING OF A

Client

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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/GR-I/19/02/003
Reg. No. RSE100382019
Reg. No. CGLRGN/SE/GR-1/2019/06/012



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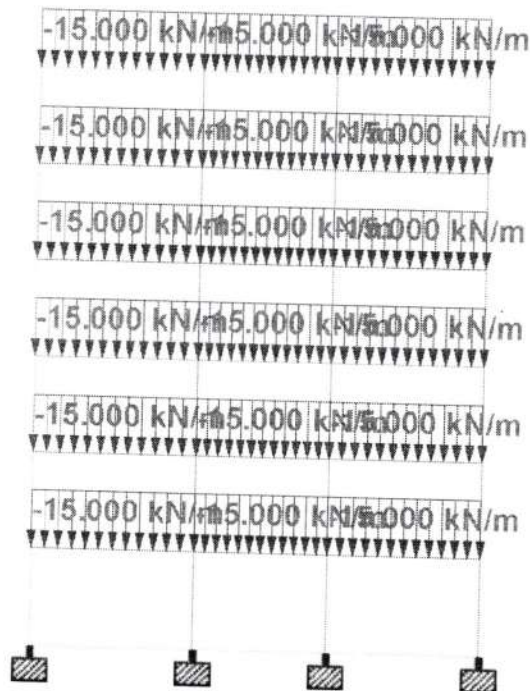
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Client

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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.

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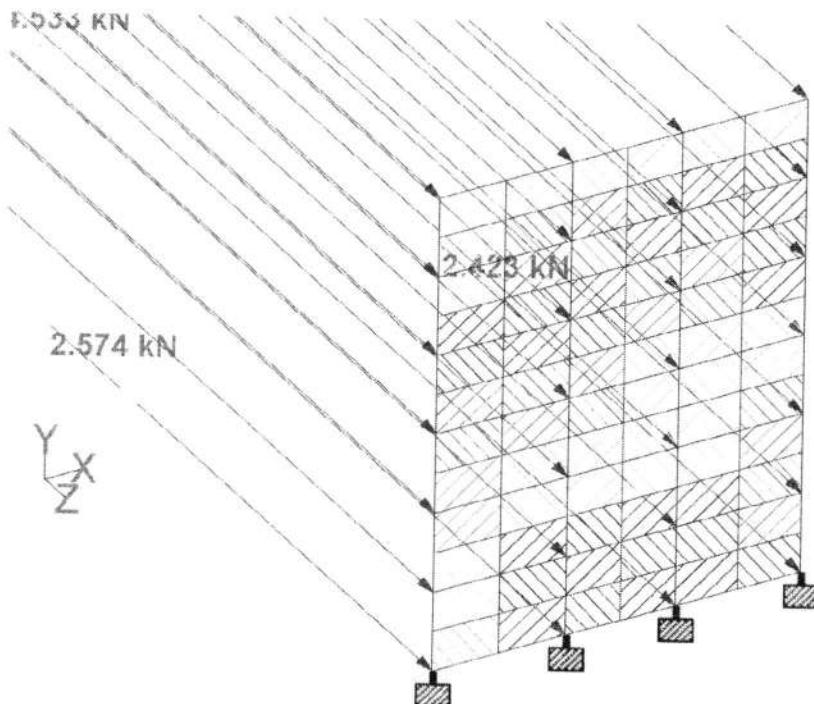
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Chd Suresh

Client

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

Structural Engineer

Plot No. 555, VGP Layout, Mullai Street,
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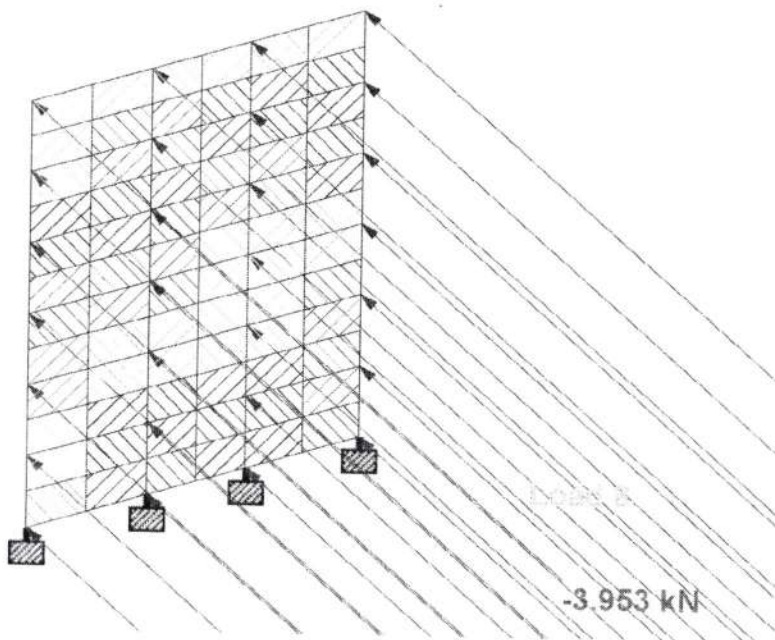


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Job No	Sheet No 1	Rev
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Dr. J. SURESH, M.E., MIE., Ph.D.

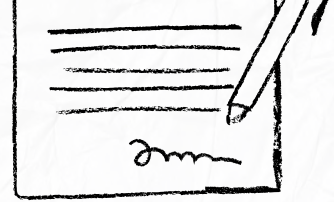
Structural Engineer

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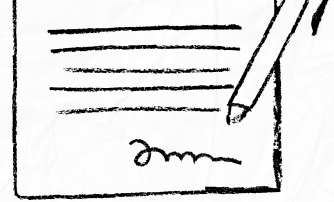
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