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Dr. ALEX JACOB

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31.01.2024

STABILITY CERTIFICATE

It is certified that the Proposed Office Building at Plot No.1, Old Door No.15, New Door No.38, Mahatma Gandhi Road, (M.G. Road), Thiruvanmiyur, Chennai – 600 041, comprised in Old S.No.139/1, as per T.S.No.5 (As per PATTA), Block No.24, of Thiruvanmiyur Village, Velachery Taluk, Chennai District, Greater Chennai Corporation, Zone No.XIII, Division No.182, having Basement Floor + Stilt Floor (part) cum Ground Floor (part) + 2 Floors is designed to resist earth quake. Check has been made and found safe and I hereby certify that,

1. The minimum grade of concrete is M 25.
2. The design and 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 safe & sound when used for the purpose for which it is designed.

(Dr. ALEX JACOB)

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REG No. SE/GR-I/19/02/001
REG No. RSE100392019

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**THE PROPOSED OFFICE BUILDING AT PLOT NO.1, OLD DOOR NO.15,
NEW DOOR NO.38, MAHATMA GANDHI ROAD (M. G. ROAD),
THIRUVANMIYUR, CHENNAI – 600 041, COMPRISED IN OLD
S.NO.139/1, AS PER T.S.NO.5 (AS PER PATTA), BLOCK NO.24, OF
THIRUVANMIYUR VILLAGE, VELACHERY TALUK, CHENNAI
DISTRICT, GREATER CHENNAI CORPORATION, ZONE NO. XIII,
DIVISION NO.182**

GENERAL NOTE ON STRUCTURAL DESIGN

1.0 GENERAL

1.1 DESIGN BASIS

The Proposed Office Building having Basement + Ground + ~~2~~ Floors

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

2.0 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Commercial Building

Self weight of slab	=	5.0kN/m ²
Floor finish	=	2.0kN/m ²
Live load	=	5.0kN/m ²

		12.0kN/m ²


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3.0 SOIL DETAILS

Based on Soil Test Report Pile Foundation is adopted.

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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*****
*
*          STAAD.Pro CONNECT Edition          *
*          Version 22.12.00.142                *
*          Proprietary Program of              *
*          Bentley Systems, Inc.               *
*          Date= DEC 26, 2023                  *
*          Time= 17:19:38                      *
*
* Licensed to: United Consultanta              *
*****

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1. STAAD SPACE PROPOSED COMMEERCIAL BUILDING AT MG ROAD THIRUVANMIYUR
- INPUT FILE: D:\KAVIYARASU R\STABILITY CERTIFICATE\AJ-3065- MG ROAD THIRUVANMIYUR\PROPOSED COMMERCIAL B.. .STD
2. START JOB INFORMATION
3. ENGINEER DATE 26-DEC-23
4. JOB NAME THE PROPOSED OFFICE BUILDING AT PLOT NO.1, OLD DOOR NO.15, NEW DOOR -
5. NO.38, MAHATMA GANDHI ROAD, (M.G. ROAD), THIRUVANMIYUR, CHENNAI - 600 041, -
6. COMPRISED IN OLD S.NO.139/1, AS PER T.S.NO.5 (AS PER PATTI), BLOCK NO.24, OF -
7. THIRUVANMIYUR VILLAGE, VELACHERY TALUK, CHENNAI DISTRICT, GREATER CHENNAI -
8. CORPORATION, ZONE NO.XIII, DIVISION NO.182, HAVING BASEMENT + GROUND + 4 -
9. FLOORS
10. ENGINEER NAME KAVIYARASU R
11. CHECKER NAME ALEX JACOB
12. APPROVED NAME ALEX JACOB
13. CHECKER DATE 12/26/2023
14. APPROVED DATE 12/26/2023
15. END JOB INFORMATION
16. INPUT WIDTH 79
17. UNIT METER KN
18. JOINT COORDINATES
19. 1 0 0 0; 2 5.685 0 0; 3 11.309 0 0; 4 16.933 0 0; 5 22.557 0 0; 6 28.089 0 0
20. 7 32.619 0 0; 9 0 3.3 0; 10 5.685 3.3 0; 11 11.309 3.3 0; 12 16.933 3.3 0
21. 13 22.557 3.3 0; 14 28.089 3.3 0; 15 32.619 3.3 0; 16 34.259 3.3 0; 17 0 8.6 0
22. 18 5.685 8.6 0; 19 11.309 8.6 0; 20 16.933 8.6 0; 21 22.557 8.6 0
23. 22 28.089 8.6 0; 23 32.619 8.6 0; 24 34.259 8.6 0; 25 0 13.6 0
24. 26 5.685 13.6 0; 27 11.309 13.6 0; 28 16.933 13.6 0; 29 22.557 13.6 0
25. 30 28.089 13.6 0; 31 32.619 13.6 0; 32 34.259 13.6 0; 33 0 18.6 0
26. 34 5.685 18.6 0; 35 11.309 18.6 0; 36 16.933 18.6 0; 37 22.557 18.6 0
27. 38 28.089 18.6 0; 39 32.619 18.6 0; 40 34.259 18.6 0; 41 0 23.6 0
28. 42 5.685 23.6 0; 43 11.309 23.6 0; 44 16.933 23.6 0; 45 22.557 23.6 0
29. 46 28.089 23.6 0; 47 32.619 23.6 0; 48 34.259 23.6 0; 49 0 28.6 0
30. 50 5.685 28.6 0; 51 11.309 28.6 0; 52 16.933 28.6 0; 53 22.557 28.6 0
31. 54 28.089 28.6 0; 55 32.619 28.6 0; 56 34.259 28.6 0
32. MEMBER INCIDENCES
33. 8 1 9; 9 2 10; 10 3 11; 11 4 12; 12 5 13; 13 6 14; 14 7 15; 16 9 17; 17 10 18
34. 18 11 19; 19 12 20; 20 13 21; 21 14 22; 22 15 23; 24 17 25; 25 18 26; 26 19 27
35. 27 20 28; 28 21 29; 29 22 30; 30 23 31; 32 25 33; 33 26 34; 34 27 35; 35 28 36
36. 36 29 37; 37 30 38; 38 31 39; 40 33 41; 41 34 42; 42 35 43; 43 36 44; 44 37 45
37. 45 38 46; 46 39 47; 48 41 49; 49 42 50; 50 43 51; 51 44 52; 52 45 53; 53 46 54
38. 54 47 55; 56 9 10; 57 10 11; 58 11 12; 59 12 13; 60 13 14; 61 14 15; 62 15 16


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PROPOSED COMMEERCIAL BUILDING AT MG ROAD THIRUVANMIYUR -- PAGE NO. 2

39. 63 17 18; 64 18 19; 65 19 20; 66 20 21; 67 21 22; 68 22 23; 69 23 24; 70 25 26
 40. 71 26 27; 72 27 28; 73 28 29; 74 29 30; 75 30 31; 76 31 32; 77 33 34; 78 34 35
 41. 79 35 36; 80 36 37; 81 37 38; 82 38 39; 83 39 40; 84 41 42; 85 42 43; 86 43 44
 42. 87 44 45; 88 45 46; 89 46 47; 90 47 48; 91 49 50; 92 50 51; 93 51 52; 94 52 53
 43. 95 53 54; 96 54 55; 97 55 56
 44. DEFINE MATERIAL START
 45. ISOTROPIC CONCRETE
 46. E 2.17185E+07
 47. POISSON 0.17
 48. DENSITY 23.5616
 49. ALPHA 1E-05
 50. DAMP 0.05
 51. G 9.28139E+06
 52. TYPE CONCRETE
 53. STRENGTH FCU 27579
 54. END DEFINE MATERIAL
 55. MEMBER PROPERTY
 56. 8 TO 12 16 TO 20 24 TO 28 32 TO 36 40 TO 44 48 TO 52 PRIS YD 0.75 ZD 0.6
 57. 13 14 21 22 29 30 37 38 45 46 53 54 PRIS YD 0.6 ZD 0.2
 58. 56 TO 97 PRIS YD 0.6 ZD 0.3
 59. CONSTANTS
 60. MATERIAL CONCRETE ALL
 61. SUPPORTS
 62. 1 TO 7 FIXED
 63. 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.

64. TYPE 1 WIND 1
 65. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
 66. IS875-2015:PARAMS 0 0 0 0.000 0.000 5.000 0 50.000 0 1.000 0 0 1.000 2 1.000 -
 67. 1.000 0 0.000 0.000 0.000 0 0 0 1.000 0 0 0.200 1.000 0 1.000 1.000 1.000
 68. !> END GENERATED DATA BLOCK
 69. INT 1 1.5 1.653 1.717 1.781 1.845 HEIG 5 10 15 20 25 28.6
 70. DEFINE IS1893 2016 LOAD
 71. ZONE 0.16 RF 2.5 I 1.2 SS 3 ST 1 DM 0.05 PX 0.92 PZ 0.92
 72. SELFWEIGHT -1
 73. MEMBER WEIGHT
 74. 56 TO 62 UNI -21.62 0 0
 75. 63 TO 97 UNI -20.24 0 0
 76. 56 TO 60 63 TO 67 70 TO 74 77 TO 81 84 TO 88 91 TO 95 UNI -35.55 0 0
 77. 61 62 68 69 75 76 82 83 89 90 96 97 UNI -15 0 0
 78. LOAD 1 LOADTYPE SEISMIC-H TITLE EQ X
 79. 1893 LOAD X 1
 80. LOAD 2 LOADTYPE SEISMIC-H TITLE EQ -X
 81. 1893 LOAD X -1.
 82. LOAD 3 LOADTYPE SEISMIC-H TITLE EQ Z
 83. 1893 LOAD Z 1


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PROPOSED COMMEERCIAL BUILDING AT MG ROAD THIRUVANMIYUR -- PAGE NO. 3

84. LOAD 4 LOADTYPE SEISMIC-H TITLE EQ -Z
85. 1893 LOAD Z -1.
86. LOAD 5 LOADTYPE DEAD TITLE DL
87. SELFWEIGHT Y -1
88. MEMBER LOAD
89. 56 TO 62 UNI GY -21.62
90. 63 TO 97 UNI GY -20.24
91. LOAD 6 LOADTYPE LIVE TITLE LL
92. MEMBER LOAD
93. 61 62 68 69 75 76 82 83 89 90 96 97 UNI GY -15
94. 56 TO 60 63 TO 67 70 TO 74 77 TO 81 84 TO 88 91 TO 95 UNI GY -35.5
95. LOAD 7 LOADTYPE WIND TITLE WL Z
96. WIND LOAD Z 1 TYPE 1
97. LOAD 8 LOADTYPE WIND TITLE WL -Z
98. WIND LOAD -Z -1 TYPE 1
99. LOAD COMB 9 1.5(DL+LL)
100. 5 1.5 6 1.5
101. LOAD COMB 10 1.2(DL+LL+EQX)
102. 5 1.2 6 1.2 1 1.2
103. LOAD COMB 11 1.2(DL+LL-EQX)
104. 5 1.2 6 1.2 2 1.2
105. LOAD COMB 12 1.2(DL+LL+EQZ)
106. 6 1.2 5 1.2 3 1.2
107. LOAD COMB 13 1.2(DL+LL-EQZ)
108. 5 1.2 6 1.2 4 1.2
109. LOAD COMB 14 1.5(DL+EQX)
110. 5 1.5 1 1.5
111. LOAD COMB 15 1.5(DL-EQX)
112. 5 1.5 2 1.5
113. LOAD COMB 16 1.5(DL+EQZ)
114. 5 1.5 3 1.5
115. LOAD COMB 17 1.5(DL-EQZ)
116. 5 1.5 4 1.5
117. LOAD COMB 18 0.9DL+1.5EQX
118. 5 0.9 1 1.5
119. LOAD COMB 19 0.9DL-1.5EQX
120. 5 0.9 2 1.5
121. LOAD COMB 20 0.9DL+1.5EQZ
122. 5 0.9 3 1.5
123. LOAD COMB 21 0.9DL-1.5EQZ
124. 5 0.9 4 1.5
125. LOAD COMB 22 1.2(DL+LL+WLZ)
126. 5 1.2 6 1.2 7 1.2
127. LOAD COMB 23 1.2(DL+LL-WLZ)



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PROPOSED COMMEERCIAL BUILDING AT MG ROAD THIRUVANMIYUR -- PAGE NO. 4

128. 5 1.2 6 1.2 8 1.2
 129. LOAD COMB 24 1.5(DL+WLZ)
 130. 5 1.5 7 1.5
 131. LOAD COMB 25 1.5(DL-WLZ)
 132. 5 1.5 8 1.5
 133. LOAD COMB 26 0.9DL+1.5WLZ
 134. 5 0.9 7 1.5
 135. LOAD COMB 27 0.9DL-1.5WLZ
 136. 5 0.9 8 1.5
 137. PERFORM ANALYSIS

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

NUMBER OF JOINTS	55	NUMBER OF MEMBERS	84
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	7

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 8, TOTAL DEGREES OF FREEDOM = 288
 TOTAL LOAD COMBINATION CASES = 19 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.

*****NOTE:** Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6 BASE SHEAR AND TIME PERIOD IN X

```

*****
* UNITS - KN      METE
* TIME PERIOD FOR X 1893 LOADING = 0.92000 SEC
* SA/G PER 1893= 1.815, LOAD FACTOR= 1.000
* VB PER 1893= 0.0697 X 8204.69= 571.90 KN
* VB Act Based on Clause 7.2.1 = 571.90 KN
* VB Min based on Clause 7.2.2 = 90.25 KN
*
*****
  
```

*****NOTE:** Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6


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PROPOSED COMMEERCIAL BUILDING AT MG ROAD THIRUVANMIYUR -- PAGE NO. 5

BASE SHEAR AND TIME PERIOD IN X

```
*****
* UNITS - KN      METE
* TIME PERIOD FOR X 1893 LOADING = 0.92000 SEC
* SA/G PER 1893= 1.815, LOAD FACTOR=-1.000
* VB PER 1893= 0.0697 X 8204.69= -571.90 KN
* VB Act Based on Clause 7.2.1 = -571.90 KN
* VB Min based on Clause 7.2.2 = -90.25 KN
*****
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6

BASE SHEAR AND TIME PERIOD IN Z

```
*****
* UNITS - KN      METE
* TIME PERIOD FOR Z 1893 LOADING = 0.92000 SEC
* SA/G PER 1893= 1.815, LOAD FACTOR= 1.000
* VB PER 1893= 0.0697 X 8204.69= 571.90 KN
* VB Act Based on Clause 7.2.1 = 571.90 KN
* VB Min based on Clause 7.2.2 = 90.25 KN
*****
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6

BASE SHEAR AND TIME PERIOD IN Z

```
*****
* UNITS - KN      METE
* TIME PERIOD FOR Z 1893 LOADING = 0.92000 SEC
* SA/G PER 1893= 1.815, LOAD FACTOR=-1.000
* VB PER 1893= 0.0697 X 8204.69= -571.90 KN
* VB Act Based on Clause 7.2.1 = -571.90 KN
* VB Min based on Clause 7.2.2 = -90.25 KN
*****
```

138. FINISH

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

*** DATE= DEC 26,2023 TIME= 17:19:39 ***


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PROPOSED COMMEERCIAL BUILDING AT MG ROAD THIRUVANMIYUR -- PAGE NO. 6

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*****
*   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                               *
*                                                         *
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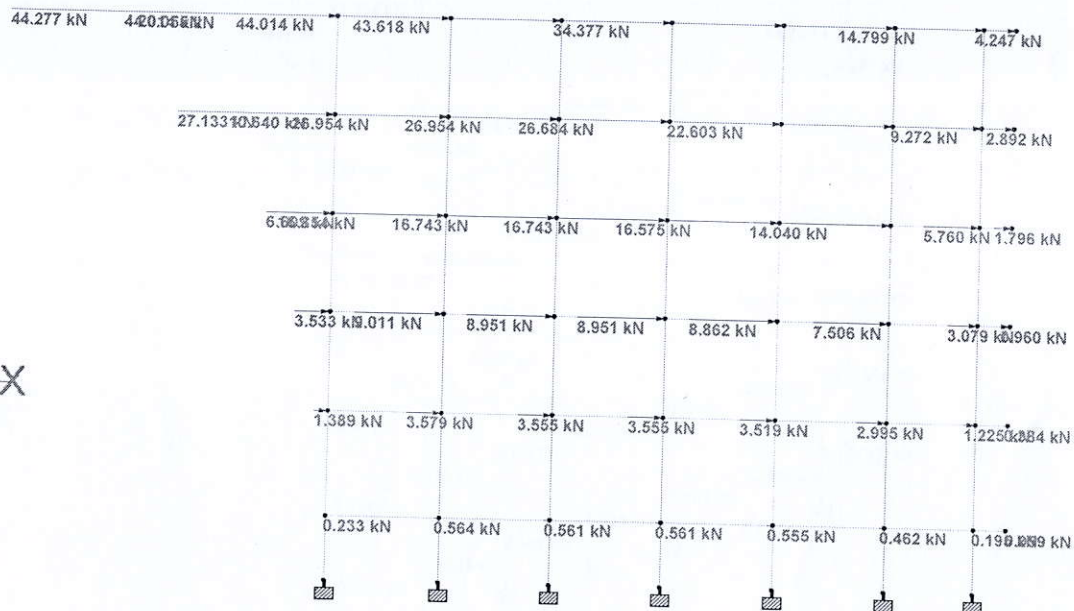
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No.38, Mahatma Gandhi Road, (M.G. Road), Thiruvannmiyur, Chennai – 600

Ref

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Z-X**Dr. ALEX JACOB**B.E., M.Tech (Str), Ph.D(Hon),
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1

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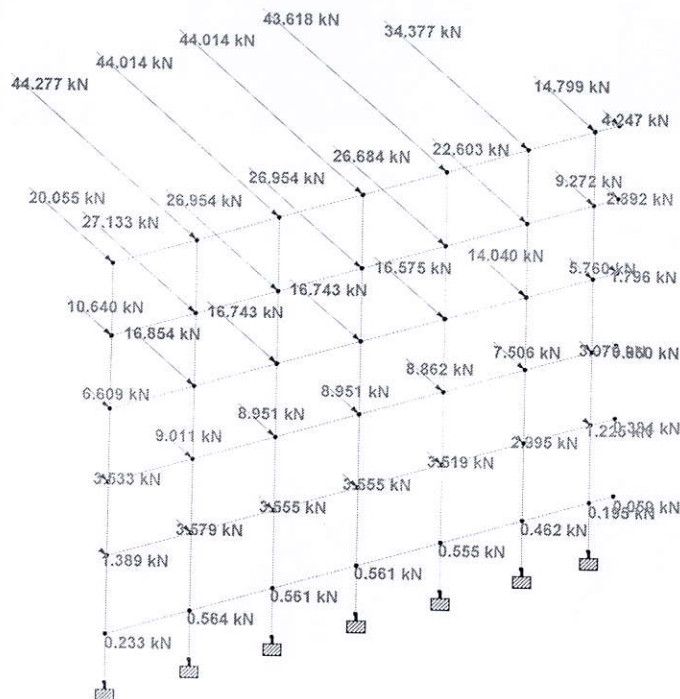
Job Title the Proposed Office Building at Plot No.1, Old Door No.15, New Door
No.38, Mahatma Gandhi Road, (M.G. Road), Thiruvanniyur, Chennai – 600

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Job Title the Proposed Office Building at Plot No.1, Old Door No.15, New Door
No.38, Mahatma Gandhi Road, (M.G. Road), Thiruvannamiyur, Chennai – 600

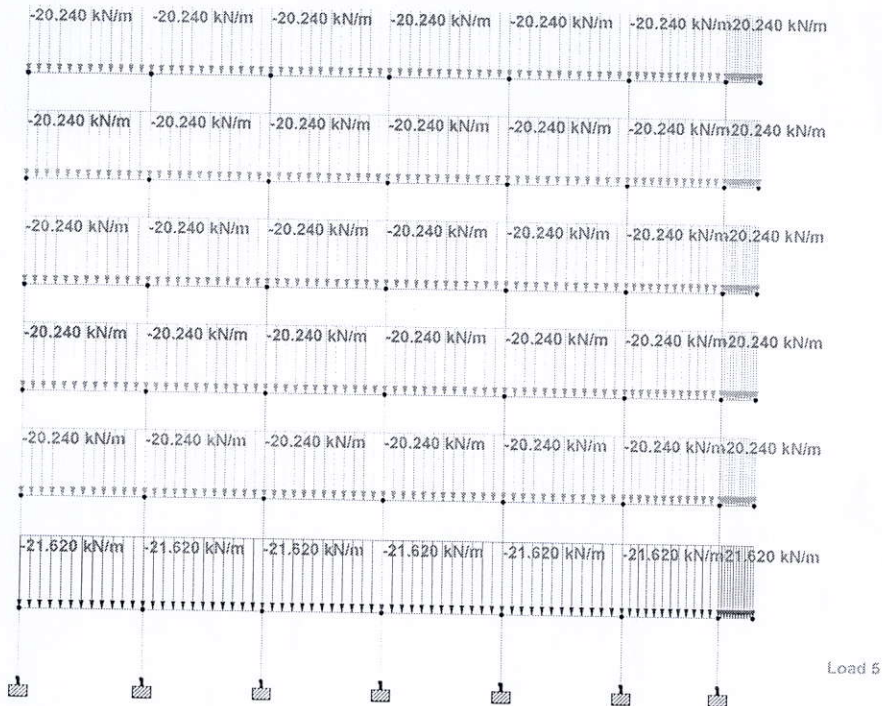
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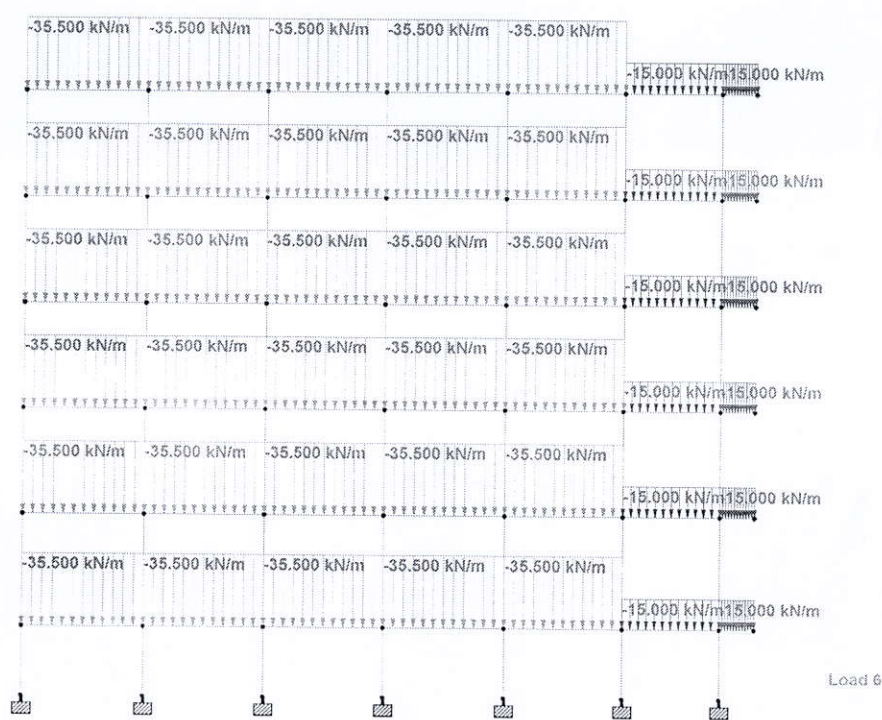
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	Part		
Job Title the Proposed Office Building at Plot No.1, Old Door No.15, New Door No.38, Mahatma Gandhi Road, (M.G. Road), Thiruvanniyur, Chennai – 600	Ref		
Client	By KAVIYARASU R	Date 26-Dec-23	Chd ALEX JACOB
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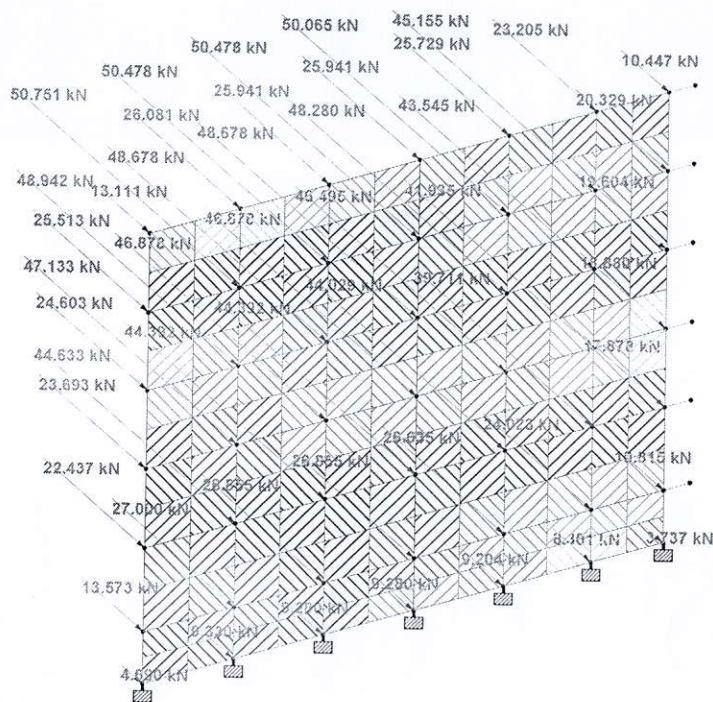
Job Title the Proposed Office Building at Plot No.1, Old Door No.15, New Door
No.38, Mahatma Gandhi Road, (M.G. Road), Thiruvanimiyur, Chennai – 600

Ref

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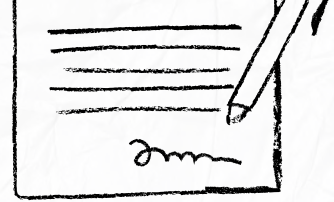
Client

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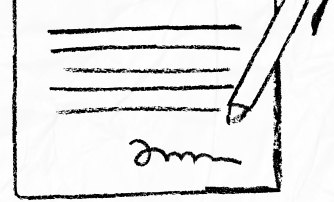
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