



Your trusted partner for buying, selling, and managing property,
ensuring hassle-free service with 100% transparency.

3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate

+91 9996 12 9996

Official Property Record

Digitally Verified Record - Powered by Verified  RealEstate™



PAGE NO. 1

```

*****
*
*      STAAD.Pro CONNECT Edition
*      Version  22.12.00.142
*      Proprietary Program of
*      Bentley Systems, Inc.
*      Date=    MAR 18, 2024
*      Time=    17:33:26
*
*      Licensed to: C.Kannan
*****

```

1. STAAD SPACE

INPUT FILE: D:\sathish\CORPORATION\CHETTINAD-MINT STREET\CHETTINAD MINT STREET.STD

2. START JOB INFORMATION

3. *JOB NAME PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NEW DOOR NO:6&3/1

4. *OLD DOOR NO:510&276/277,NORTH WALL ROAD,MINT STREET,

5. *CHENNAI-600079.

6. JOB CLIENT CHETTINAD

7. ENGINEER NAME KANNAN

8. CHECKER NAME KANNAN

9. APPROVED NAME KANNAN

10. ENGINEER DATE 05-01-2023

11. CHECKER DATE 05-01-2023

12. APPROVED DATE 05-01-2023

13. END JOB INFORMATION

14. INPUT WIDTH 79

15. UNIT METER KN

16. JOINT COORDINATES

17. 2 -1.5 0 0; 6 -1.5 3 0; 10 -1.5 6 0; 14 -1.5 9 0; 18 -1.5 12 0; 106 2.39 0 0

18. 107 2.39 3 0; 108 2.39 6 0; 109 2.39 9 0; 110 2.39 12 0; 113 6.9 12 0

19. 114 6.9 3 0; 115 6.9 6 0; 116 6.9 9 0; 117 6.9 12 0; 118 10.79 0 0

20. 119 10.79 3 0; 120 10.79 6 0; 121 10.79 9 0; 122 10.79 12 0; 123 14.68 0 0

21. 124 14.68 3 0; 125 14.68 6 0; 126 14.68 9 0; 127 14.68 12 0; 128 18.57 0 0

22. 129 18.57 3 0; 130 18.57 6 0; 131 18.57 9 0; 132 18.57 12 0; 133 22.46 0 0

23. 134 22.46 3 0; 135 22.46 6 0; 136 22.46 9 0; 137 22.46 12 0; 138 15.68 0 0

24. 139 15.68 3 0; 140 15.68 6 0; 141 15.68 9 0; 142 15.68 12 0; 143 26.46 0 0

25. 144 26.46 3 0; 145 26.46 6 0; 146 26.46 9 0; 147 26.46 12 0; 148 -1.5 15 0

26. 149 2.39 15 0; 150 6.9 15 0; 151 10.79 15 0; 152 14.68 15 0; 153 18.57 15 0

27. 154 22.46 15 0; 155 15.68 15 0; 156 26.46 15 0; 157 -1.5 18 0; 158 2.39 18 0

28. 159 6.9 18 0; 160 10.79 18 0; 161 14.68 18 0; 162 18.57 18 0; 163 22.46 18 0

29. 164 15.68 18 0; 165 26.46 18 0; 166 -1.5 21 0; 167 2.39 21 0; 168 6.9 21 0

30. 169 10.79 21 0; 170 14.68 21 0; 171 18.57 21 0; 172 22.46 21 0; 173 15.68 21 0

31. 174 26.46 21 0

32. MEMBER INCIDENCES

33. 5 2 6; 9 6 107; 12 6 10; 16 10 108; 19 10 14; 23 14 109; 26 14 18; 30 18 110

34. 97 117 114; 130 114 116; 131 116 115; 132 115 113; 153 106 107; 154 107 108

35. 155 108 109; 156 109 110; 197 110 113; 198 109 115; 199 108 116; 200 107 114

36. 202 118 119; 203 119 120; 204 120 121; 205 121 122; 206 123 124; 207 124 125

37. 208 125 126; 209 126 127; 210 128 129; 211 129 130; 212 130 131; 213 131 132

38. 214 133 134; 215 134 135; 216 135 136; 217 136 137; 222 114 119; 223 119 124

C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,

CMDA Reg. No: SE/H/2024/2/0047
Door No: 21, 4th Floor, Page 1 of 6

Indira Nagar, Chennai - 600 020.

STAAD SPACE

-- PAGE NO. 2

39. 224 124 139; 225 129 134; 226 116 120; 227 120 125; 228 125 140; 229 130 135
 40. 230 115 121; 231 121 126; 232 126 141; 233 131 136; 234 113 122; 235 122 127
 41. 236 127 142; 237 132 137; 239 139 129; 240 138 139; 241 140 130; 242 139 140
 42. 243 141 131; 244 140 141; 245 142 132; 246 141 142; 247 143 144; 248 144 145
 43. 249 145 146; 250 146 147; 251 137 147; 252 136 146; 253 135 145; 254 134 144
 44. 256 18 148; 257 110 149; 258 113 150; 259 122 151; 260 127 152; 261 132 153
 45. 262 137 154; 263 142 155; 264 147 156; 265 148 157; 266 149 158; 267 150 159
 46. 268 151 160; 269 152 161; 270 153 162; 271 154 163; 272 155 164; 273 156 165
 47. 274 148 149; 275 149 150; 276 150 151; 277 151 152; 278 152 155; 279 153 154
 48. 280 155 153; 281 154 156; 282 157 158; 283 158 159; 284 159 160; 285 160 161
 49. 286 161 164; 287 162 163; 288 164 162; 289 163 165; 290 157 166; 291 158 167
 50. 292 159 168; 293 160 169; 294 161 170; 295 162 171; 296 163 172; 297 164 173
 51. 298 165 174; 299 166 167; 300 167 168; 301 168 169; 302 169 170; 303 170 173
 52. 304 171 172; 305 173 171; 306 172 174

53. DEFINE MATERIAL START

54. ISOTROPIC MATERIAL1

55. E 2.5E+07

56. POISSON 0.17

57. DENSITY 24

58. ALPHA 1.2E-11

59. DAMP 2.8026E-44

60. ISOTROPIC CONCRETE

61. E 2.17185E+07

62. POISSON 0.17

63. DENSITY 23.5616

64. ALPHA 1E-05

65. DAMP 0.05

66. END DEFINE MATERIAL

67. MEMBER PROPERTY AMERICAN

68. 9 16 23 30 197 TO 200 222 TO 237 239 241 243 245 251 TO 254 274 TO 289 299 -

69. 300 TO 306 PRIS YD 0.45 ZD 0.2

70. 5 12 19 26 97 130 TO 132 153 TO 156 202 TO 217 240 242 244 246 TO 250 256 -

71. 257 TO 273 290 TO 298 PRIS YD 0.6 ZD 0.2

72. SUPPORTS

73. 2 106 117 118 123 128 133 138 143 FIXED

74. CONSTANTS

75. BETA 90 MEMB 97 130 TO 132 202 TO 217 240 242 244 246 TO 250

76. MATERIAL CONCRETE ALL

77. DEFINE 1893 LOAD

78. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DT 3

79. MEMBER WEIGHT

80. 9 16 23 30 197 TO 200 222 TO 237 239 241 243 245 251 TO 254 274 TO 289 299 -

81. 300 TO 306 UNI 12 0 12

82. DEFINE WIND LOAD

should be defined after Floor Diaphragm definition. Otherwise wind load generation may be unsuccessful during analysis.

83. TYPE 1

84. INT 0.673 HEIG 12

85. EXP 1 JOINT 2 6 10 14 18 106 TO 110 113 TO 165

86. LOAD 1 S X

87. 1893 LOAD X 1

STAAD SPACE

-- PAGE NO. 3

```

88. LOAD 2 S -X
89. 1893 LOAD X -1.
90. LOAD 3 S Z
91. 1893 LOAD Z 1
92. LOAD 4 S -Z
93. 1893 LOAD Z -1.
94. LOAD 5 W X
95. WIND LOAD X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
96. LOAD 6 W -X
97. WIND LOAD X -1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
98. LOAD 7 W Z
99. WIND LOAD Z 1 TYPE 1
100. LOAD 8 W -Z
101. WIND LOAD Z -1 TYPE 1
102. LOAD 9 LIVE LOAD
103. MEMBER LOAD
104. 9 16 23 30 197 TO 200 222 TO 237 239 241 243 245 251 TO 254 274 TO 289 299 -
105. 300 TO 306 UNI GY -15
106. LOAD 10 DEAD LOAD
107. MEMBER LOAD
108. 9 16 23 30 197 TO 200 222 TO 237 239 241 243 245 251 TO 254 274 TO 289 299 -
109. 300 TO 306 UNI GY -20
110. SELFWEIGHT Y -1
111. LOAD COMB 11 1.5(DL+IL)
112. 9 1.5 10 1.5
113. LOAD COMB 12 1.2(DL+IL+ELX)
114. 9 1.5 10 1.2 1 1.2
115. LOAD COMB 13 1.2(DL+IL+ELX)
116. 9 1.2 10 1.2 2 1.2
117. LOAD COMB 14 1.2(DL+IL+ELZ)

```

STAAD SPACE

-- PAGE NO. 4

```

118. 9 1.2 10 1.2 3 1.2
119. LOAD COMB 15 1.2(DL+IL-ELZ)
120. 9 1.2 10 1.2 4 1.2
121. LOAD COMB 16 1.2(DL+IL+WLX)
122. 9 1.2 10 1.2 5 1.2
123. LOAD COMB 17 1.2(DL+IL-WLX)
124. 10 1.2 5 1.2
125. LOAD COMB 18 1.2(DL+IL+WLZ)
126. 9 1.2 10 1.2 7 1.2
127. LOAD COMB 19 1.2(DL+IL-WLZ)
128. 9 1.2 10 1.2 8 1.2
129. LOAD COMB 20 1.5(DL+ELX)
130. 9 1.5 10 1.5 1 1.5
131. LOAD COMB 21 1.5(DL-ELX)
132. 9 1.5 10 1.5 2 1.5
133. LOAD COMB 22 1.5(DL+ELZ)
134. 9 1.5 10 1.5 3 1.5
135. LOAD COMB 23 1.5(DL-ELZ)
136. 10 1.5 4 1.5
137. LOAD COMB 24 1.5(DL+WLX)
138. 10 1.5 5 1.5
139. LOAD COMB 25 1.5(DL-WLX)
140. 10 1.5 6 1.5
141. LOAD COMB 26 1.5(DL+WLZ)
142. 10 1.5 7 1.5
143. LOAD COMB 27 1.5(DL-WLZ)
144. 10 1.5 8 1.5
145. LOAD COMB 28 0.9 DL+ELX
146. 10 0.9 1 1.5
147. LOAD COMB 29 0.9 DL-ELX
148. 10 0.9 2 1.5
149. LOAD COMB 30 0.9 DL+ELZ
150. 10 0.9 3 1.5
151. LOAD COMB 31 0.9 DL-ELZ
152. 10 0.9 4 1.5
153. LOAD COMB 32 0.9 DL+WLX
154. 10 0.9 5 1.5
155. LOAD COMB 33 0.9 DL-WLX
156. 10 0.9 6 1.5
157. LOAD COMB 34 0.9 DL+WLZ
158. 10 0.9 7 1.5
159. LOAD COMB 35 0.9 DL-WLZ
160. 10 0.9 8 1.5
161. PERFORM ANALYSIS

```


C. KANNAN, B.E., M.E. (Structure)
 Structural Engineer,
 CMDA Reg. No: SE/I/2024/2/0047
 Door No: 21, 4th Main Road
 Indira Nagar, Chennai - 600 020.

124

244

By Kannan

2023-05-01

Chd Kannan

Class CHETTINAD

Free GHETTINAD MINT STRE

DateTime: 18-Mar-2024 17:33

$$\begin{array}{cc} Y & \\ Z & X \end{array}$$

C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

Bentley

Software Interacts C. Kannan
CONNECTED User: Kannan Chinnaiyan

Job Title:

Client: CHETTINAD

Job No:

Sheet No:

1

Rev:

Rev:

By: Kannan

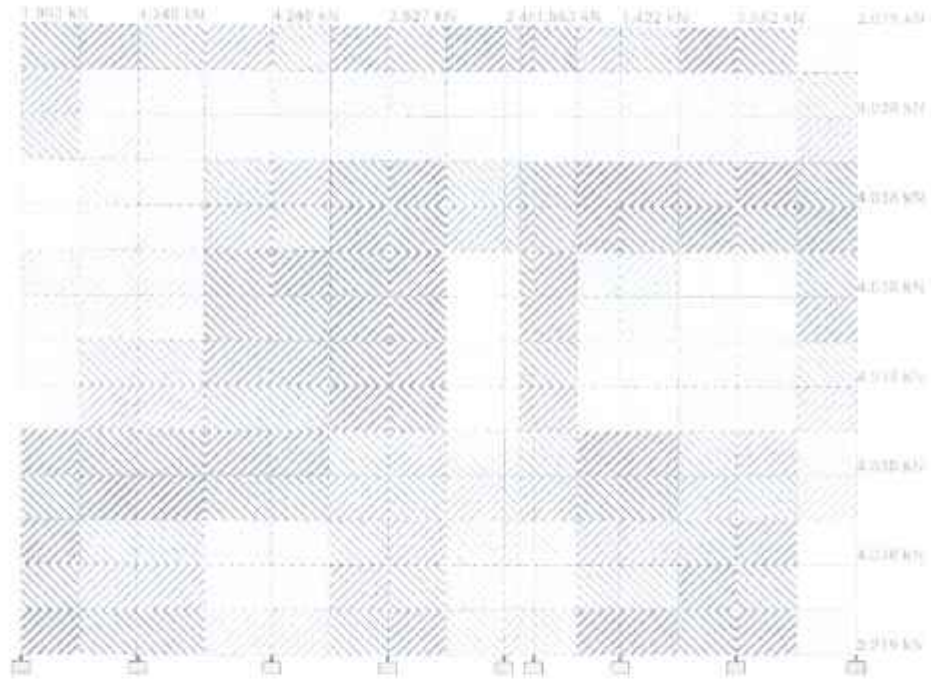
Date: 05-01-2023

Chk: Kannan

For: CHETTINAD MINT STRE

Issue Time: 18-Mar-2024 17:33

Y
Z X



$$\begin{array}{c} Y \\ | \\ Z \quad X \end{array}$$

C.KANNAN, M.E. (Structure)
STRUCTURAL ENGINEER

Door No. 21, plot No. 257- W, Flat No. 2B
"Utopia Apartments" 2nd Floor,
4th Main Road, Indira Nagar,
Chennai- 600 020
Mobile: 9841249815
Email: kannankds2007@gmail.com

STRUCTURAL STABILITY CERTIFICATE

It is certified that the Proposed Commercial Cum Residential Building Availing with Premium FSI At Old Door No. 510, New Door No. 6, Mint Street and Old Door No. 276 & 277, New Door No. 3/1, North Wall Road, Chennai- 600 079, Comprised in Old S. No. 6072, 6073, 6075 & 599/20, New S. No. 602 (As Per Document) R. S. No. 602 & 599/20 (As Per Patta), Block No. 7, Ward- 1 VOC Nagar Village, Purasawalkam Taluk, Chennai District Within the limit of Greater Corporation of Chennai Zone- 05, Division- 53 & 54, Having Stilt plus Five upper floors is designed to resist earthquake. Check has been made and found safe and I hereby certify that,

1. The minimum column width is 300 in stilt floor areas
2. The minimum grade of concrete is M25.
3. The design analysis using the code of practice for loading Standards as per IS-875 Part I to III and seismic force as per one code IS 1893, is carried out.

The Structure is safe and sound.



C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AVAILING WITH PREMIUM FSI AT OLD DOOR NO. 510, NEW DOOR NO. 6, MINT STREET AND OLD DOOR NO. 276 & 277, NEW DOOR NO. 3/1, NORTH WALL ROAD, CHENNAI- 600 079, COMPRISED IN OLD S. NO. 6072, 6073, 6075 & 599/20, NEW S. NO. 602 (AS PER DOCUMENT) R. S. NO. 602 & 599/20 (AS PER PATTI), BLOCK NO. 7, WARD- I VOC NAGAR VILLAGE, PURASAWALKAM TALUK, CHENNAI DISTRICT WITHIN THE LIMIT OF GREATER CORPORATION OF CHENNAI
ZONE- 05, DIVISION- 53 & 54

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

The proposed residential building consists of Stilt plus Five upper floors.

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

1.2 CODES AND STANDARDS

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

1. I.S. 456 - 2000
2. I.S. 875 - Part I to III
3. I.S.1893 - 2016

2.0 BASIC CIVIL DESIGN LOADS

2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Self weight of slab	=	3.25kN/m ²
Floor finish	=	2.0kN/m ²
Live load	=	2.0kN/m ²

		7.25kN/m ²



C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

3.0 SOIL DETAILS

Based on soil test report Raft Footing is adopted.

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

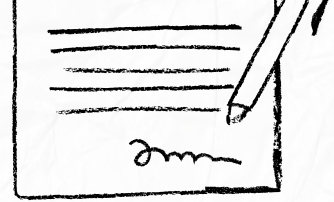
4.3 MINIMUM COVER

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

The Structure is safe and sound.



C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,
CMDA Reg. No: SE/1/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.



our services doesn't just end there



Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.



Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.



Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.



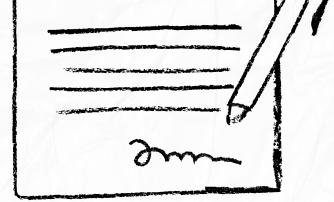
NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management



Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.



 **empowering your real estate decisions
with smart tools**



Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter



Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer



Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator



Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary



Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management



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

3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
[+91 9996 12 9996](tel:+919996129996)
www.verified.realestate