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```
*****************************************************
*                                                   *
*           STAAD.Pro CONNECT Edition               *
*           Version  22.00.00.15                    *
*           Proprietary Program of                  *
*           Bentley Systems, Inc.                   *
*           Date=    JAN 30, 2025                   *
*           Time=    22:24:54                       *
*                                                   *
*  Licensed to: only @ ::LAVTeam:: (R)              *
*****************************************************
```

```
    1. STAAD SPACE
INPUT FILE: I:\1.MISCELLANEOUS\STABILITY CERTIFICATE\UC-MELAKOTTAIYUR PHASE 2\MELAKOTTAIYUR PHASE 2.STD
    2. START JOB INFORMATION
    3. JOB NAME THE PROPOSED ADDITIONAL CONSTRUCTION OF RESIDENTIAL HIGHRISE GROUP
    4. *DEVELOPMENT BUILDING CONSISTS OF 3 BLOCKS, BLOCK 5 & 6 WITH COMBINED DOUBLE
    5. *BASEMENT B1 & B2, BLOCK 5: GROUND+36 UPPER FLOORS (295 D/U), BLOCK 6:
    6. *GROUND+36 UPPER FLOORS (295 D/U),BLOCK 10 (CLUB HOUSE): GROUND + 3 FLOORS
    7. *WITH SWIMMING POOL ON THE GROUND FLOOR, TOTALLY 590 D/U COMPRISED IN S.NOS.
    8. *108/2A,109/1A,  109/2B, 109/4A3, 109/4A4, 111/1C1A1, 111/1C1B1, 111/1C1B3,
    9. *112/1A, 112/1C, 112/2A,  112/4A, 112/5A, 113/2A, 113/3A, 113/4A, 114/2,
   10. *114/3A, 114/3B, 114/3C, 114/4, 114/5, 114/6, 114/7, 115/1, 115/2, 115/3,
   11. *115/4, 116, 117/1, 117/2,117/3, 117/4, 117/5, 117/6, 120/1, 121/2, 122/1A,
   12. *122/1B, 122/2, 123/1, 123/2, 123/3, 123/4, 123/5, 123/6, 123/7,124/2B, 124/3,
   13. *124/4, 124/5, 125/1A2, 125/1B, 125/2A, 125/2B, 126,127/1B, 127/2A,127/3A,
   14. *127/3B, 128/1A, 128/1C, 128/2, 128/3A,128/4A,128/5A, 129/1, 129/2, 130/1,
   15. *130/2A, 130/2B1, 130/2B2, 130/3, 130/4, 131, 132/2A1,132/2B1, 133/1, 133/2A,
   16. *134/1,134/2A, 134/2B, 134/2C, 136/1 & 136/2 OF MELAKOTTAIYUR VILLAGE,
   17. *VANDALUR TALUK, CHENGALPATTU DISTRICT.
   18. *OSR & LINK ROAD GIFTED VIDE GIFTDEED NO:18709/2023, DATED ON 25.10.2023
   19. *COMPRISED IN S.NO:108/2B,109/1B, 109/2A, 111/1C1A2, 111/1C1B2, 112/1B, 112/2B,
   20. *112/4B,   112/5B, 113/2B, 113/3B, 113/4B, 124/2A, 125/1A1, 127/1A, 127/4,
   21. *128/1B, 128/3B, 128/4B, 128/5B, 132/2A2, 132/2B2 & 133/2B.
   22. ENGINEER NAME SURESH
   23. CHECKER NAME SURESH
   24. APPROVED NAME SURESH
   25. ENGINEER DATE 9/17/2024
   26. CHECKER DATE 9/17/2024
   27. APPROVED DATE 9/17/2024
   28. END JOB INFORMATION
   29. INPUT WIDTH 79
   30. UNIT METER KN
   31. JOINT COORDINATES
   32. 1 -11 -1 0; 25 -11 -4 0; 26 -4.5 -1 0; 27 -4.5 -4 0; 28 2.2 -1 0; 29 2.2 -4 0
   33. 36 -11 2 0; 37 -4.5 2 0; 38 2.2 2 0; 42 -11 5 0; 43 -4.5 5 0; 44 2.2 5 0
   34. 57 6.9 -1 0; 58 6.9 -4 0; 59 6.9 2 0; 60 6.9 5 0; 63 13.6 -1 0; 64 13.6 -4 0
   35. 65 13.6 2 0; 66 13.6 5 0; 67 -11 8 0; 68 -4.5 8 0; 69 2.2 8 0; 70 6.9 8 0
   36. 71 13.6 8 0; 72 -11 11 0; 73 -4.5 11 0; 74 2.2 11 0; 75 6.9 11 0; 76 13.6 11 0
   37. 77 -11 14 0; 78 -4.5 14 0; 79 2.2 14 0; 80 6.9 14 0; 81 13.6 14 0; 82 -11 17 0
   38. 83 -4.5 17 0; 84 2.2 17 0; 85 6.9 17 0; 86 13.6 17 0; 87 -11 20 0
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Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
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Reg. No. RSE100382019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005

39. 88 -4.5 20 0; 89 2.2 20 0; 90 6.9 20 0; 91 13.6 20 0; 92 -11 23 0
40. 93 -4.5 23 0; 94 2.2 23 0; 95 6.9 23 0; 96 13.6 23 0; 97 -11 26 0
41. 98 -4.5 26 0; 99 2.2 26 0; 100 6.9 26 0; 101 13.6 26 0; 102 -11 29 0
42. 103 -4.5 29 0; 104 2.2 29 0; 105 6.9 29 0; 106 13.6 29 0; 107 -11 32 0
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44. 113 -4.5 35 0; 114 2.2 35 0; 115 6.9 35 0; 116 13.6 35 0; 117 -11 38 0
45. 118 -4.5 38 0; 119 2.2 38 0; 120 6.9 38 0; 121 13.6 38 0; 122 -11 41 0
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56. 173 -4.5 71 0; 174 2.2 71 0; 175 6.9 71 0; 176 13.6 71 0; 177 -11 74 0
57. 178 -4.5 74 0; 179 2.2 74 0; 180 6.9 74 0; 181 13.6 74 0; 182 -11 77 0
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71. MEMBER INCIDENCES
72. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 43 26 28; 44 27 29; 45 28 29; 55 1 36
73. 56 26 37; 57 28 38; 61 36 37; 62 37 38; 66 36 42; 67 37 43; 68 38 44; 72 42 43
74. 73 43 44; 96 28 57; 97 29 58; 98 57 58; 99 57 59; 100 38 59; 101 59 60
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76. 113 60 66; 114 42 67; 115 43 68; 116 44 69; 117 67 68; 118 68 69; 119 60 70
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84. 169 93 98; 170 94 99; 171 97 98; 172 98 99; 173 95 100; 174 99 100; 175 96 101
85. 176 100 101; 177 97 102; 178 98 103; 179 99 104; 180 102 103; 181 103 104
86. 182 100 105; 183 104 105; 184 101 106; 185 105 106; 186 102 107; 187 103 108
87. 188 104 109; 189 107 108; 190 108 109; 191 105 110; 192 109 110; 193 106 111
88. 194 110 111; 195 107 112; 196 108 113; 197 109 114; 198 112 113; 199 113 114
89. 200 110 115; 201 114 115; 202 111 116; 203 115 116; 204 112 117; 205 113 118
90. 206 114 119; 207 117 118; 208 118 119; 209 115 120; 210 119 120; 211 116 121
91. 212 120 121; 213 117 122; 214 118 123; 215 119 124; 216 122 123; 217 123 124
92. 218 120 125; 219 124 125; 220 121 126; 221 125 126; 222 122 127; 223 123 128
93. 224 124 129; 225 127 128; 226 128 129; 227 125 130; 228 129 130; 229 126 131
94. 230 130 131; 231 127 132; 232 128 133; 233 129 134; 234 132 133; 235 133 134

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 95. 236 130 135; 237 134 135; 238 131 136; 239 135 136; 240 132 137; 241 133 138
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117. 368 204 209; 369 207 208; 370 208 209; 371 205 210; 372 209 210; 373 206 211
118. 374 210 211; 375 207 212; 376 208 213; 377 209 214; 378 212 213; 379 213 214
119. 380 210 215; 381 214 215; 382 211 216; 383 215 216; 384 212 217; 385 213 218
120. 386 214 219; 387 217 218; 388 218 219; 389 215 220; 390 219 220; 391 216 221
121. 392 220 221; 393 217 222; 394 218 223; 395 219 224; 396 222 223; 397 223 224
122. 398 220 225; 399 224 225; 400 221 226; 401 225 226; 402 222 227; 403 223 228
123. 404 224 229; 405 227 228; 406 228 229; 407 225 230; 408 229 230; 409 226 231
124. 410 230 231; 411 227 232; 412 228 233; 413 229 234; 414 232 233; 415 233 234
125. 416 230 235; 417 234 235; 418 231 236; 419 235 236; 420 232 237; 421 233 238
126. 422 234 239; 423 237 238; 424 238 239; 425 235 240; 426 239 240; 427 236 241
127. 428 240 241; 429 237 242; 430 238 243; 431 239 244; 432 242 243; 433 243 244
128. 434 240 245; 435 244 245; 436 241 246; 437 245 246
129. DEFINE MATERIAL START
130. ISOTROPIC CONCRETE
131. E 2.17185E+07
132. POISSON 0.17
133. DENSITY 23.5616
134. ALPHA 1E-05
135. DAMP 0.05
136. END DEFINE MATERIAL
137. MEMBER PROPERTY INDIAN
138. 39 42 45 55 TO 57 66 TO 68 98 99 101 109 110 112 114 TO 116 119 121 -
139. 123 TO 125 128 130 132 TO 134 137 139 141 TO 143 146 148 150 TO 152 155 157 -
140. 159 TO 161 164 166 168 TO 170 173 175 177 TO 179 182 184 186 TO 188 191 193 -
141. 195 TO 197 200 202 204 TO 206 209 211 213 TO 215 218 220 222 TO 224 227 229 -
142. 231 TO 233 236 238 240 TO 242 245 247 249 TO 251 254 256 258 TO 260 263 265 -
143. 267 TO 269 272 274 276 TO 278 281 283 285 TO 287 290 292 294 TO 296 299 301 -
144. 303 TO 305 308 310 312 TO 314 317 319 321 TO 323 326 328 330 TO 332 335 337 -
145. 339 TO 341 344 346 348 TO 350 353 355 357 TO 359 362 364 366 TO 368 371 373 -
146. 375 TO 377 380 382 384 TO 386 389 391 393 TO 395 398 400 402 TO 404 407 409 -
147. 411 TO 413 416 418 420 TO 422 425 427 429 TO 431 434 -
148. 436 PRIS YD 0.8 ZD 0.3
149. 40 41 43 44 61 62 72 73 96 97 100 102 107 108 111 113 117 118 120 122 126 -
150. 127 129 131 135 136 138 140 144 145 147 149 153 154 156 158 162 163 165 167 -
```

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151. 171 172 174 176 180 181 183 185 189 190 192 194 198 199 201 203 207 208 210 -
152. 212 216 217 219 221 225 226 228 230 234 235 237 239 243 244 246 248 252 253 -
153. 255 257 261 262 264 266 270 271 273 275 279 280 282 284 288 289 291 293 297 -
154. 298 300 302 306 307 309 311 315 316 318 320 324 325 327 329 333 334 336 338 -
155. 342 343 345 347 351 352 354 356 360 361 363 365 369 370 372 374 378 379 381 -
156. 383 387 388 390 392 396 397 399 401 405 406 408 410 414 415 417 419 423 424 -
157. 426 428 432 433 435 437 PRIS YD 0.6 ZD 0.2
158. CONSTANTS
159. MATERIAL CONCRETE ALL
160. SUPPORTS
161. 25 27 29 58 64 FIXED
162. DEFINE 1893 LOAD
163. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DM 0.5
164. MEMBER WEIGHT
165. 39 TO 45 55 TO 57 61 62 66 TO 68 72 73 96 TO 102 107 TO 437 UNI -14.5
166. 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.

167. TYPE 1
168. INT 0.673 1.03335 1.3537 1.65375 HEIG  10  30  50  100
169. EXP 1 JOINT 1 25 TO 29 36 TO 38 42 TO 44 57 TO 60 63 TO 246
170. LOAD 1 LOADTYPE NONE  TITLE SLX1
171. 1893 LOAD X 1
172. LOAD 2 LOADTYPE NONE  TITLE SLZ1
173. 1893 LOAD Z 1
174. LOAD 3 LOADTYPE DEAD  TITLE DL
175. SELFWEIGHT Y -1
176. MEMBER LOAD
177. 40 43 61 62 72 73 96 100 102 107 111 113 117 118 120 122 126 127 129 131 135 -
178. 136 138 140 144 145 147 149 153 154 156 158 162 163 165 167 171 172 174 176 -
179. 180 181 183 185 189 190 192 194 198 199 201 203 207 208 210 212 216 217 219 -
180. 221 225 226 228 230 234 235 237 239 243 244 246 248 252 253 255 257 261 262 -
181. 264 266 270 271 273 275 279 280 282 284 288 289 291 293 297 298 300 302 306 -
182. 307 309 311 315 316 318 320 324 325 327 329 333 334 336 338 342 343 345 347 -
183. 351 352 354 356 360 361 363 365 369 370 372 374 378 379 381 383 387 388 390 -
184. 392 396 397 399 401 405 406 408 410 414 415 417 419 423 424 426 428 432 433 -
185. 435 437 UNI GY -25
186. LOAD 4 LOADTYPE LIVE  TITLE LL
187. MEMBER LOAD
188. 40 43 61 62 72 73 96 100 102 107 111 113 117 118 120 122 126 127 129 131 135 -
189. 136 138 140 144 145 147 149 153 154 156 158 162 163 165 167 171 172 174 176 -
190. 180 181 183 185 189 190 192 194 198 199 201 203 207 208 210 212 216 217 219 -
191. 221 225 226 228 230 234 235 237 239 243 244 246 248 252 253 255 257 261 262 -
192. 264 266 270 271 273 275 279 280 282 284 288 289 291 293 297 298 300 302 306 -
193. 307 309 311 315 316 318 320 324 325 327 329 333 334 336 338 342 343 345 347 -
194. 351 352 354 356 360 361 363 365 369 370 372 374 378 379 381 383 387 388 390 -
195. 392 396 397 399 401 405 406 408 410 414 415 417 419 423 424 426 428 432 433 -
```

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196. 435 437 UNI GY -15
197. LOAD 7 LOADTYPE WIND  TITLE WLZ1
198. WIND LOAD Z 1 TYPE 1
199. LOAD 8 LOADTYPE WIND  TITLE WLZ2
200. WIND LOAD Z -1 TYPE 1
201. LOAD COMB 9 1.5(DL+LL)
202. 3 1.5 4 1.5
203. LOAD COMB 10 1.2(DL+LL+SLX)
204. 3 1.2 4 1.2 1 1.2
205. LOAD COMB 11 1.2(DL+LL+SLZ)
206. 3 1.2 4 1.2 2 1.2
207. LOAD COMB 14 1.2(DL+LL+WLZ1)
208. 3 1.2 4 1.2 7 1.2
209. LOAD COMB 15 1.2(DL+LL+WLZ2)
210. 3 1.2 4 1.2 8 1.2
211. LOAD COMB 16 1.5(DL+SLX)
212. 3 1.5 1 1.5
213. LOAD COMB 17 1.5(DL+SLZ)
214. 3 1.5 2 1.5
215. LOAD COMB 20 1.5(DL+WLZ1)
216. 3 1.5 7 1.5
217. LOAD COMB 21 1.5(DL+WLZ2)
218. 3 1.5 8 1.5
219. LOAD COMB 22 0.9DL+1.5SLX
220. 3 0.9 1 1.5
221. LOAD COMB 23 0.9DL+1.5SLZ
222. 3 0.9 2 1.5
223. LOAD COMB 26 0.9DL+1.5WLZ1
224. 3 0.9 7 1.5
225. LOAD COMB 27 0.9DL+1.5WLZ2
226. 3 0.9 8 1.5
227. PERFORM ANALYSIS
```

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

NUMBER OF JOINTS	200	NUMBER OF MEMBERS	355
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	5

Using 64-bit analysis engine.

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

ORIGINAL/FINAL BAND-WIDTH= 11/ 5/ 36 DOF



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STAAD SPACE -- PAGE NO. 6

TOTAL PRIMARY LOAD CASES = 6, TOTAL DEGREES OF FREEDOM = 1170
TOTAL LOAD COMBINATION CASES = 13 SO FAR.
SIZE OF STIFFNESS MATRIX = 43 DOUBLE KILO-WORDS
REQRD/AVAIL. DISK SPACE = 13.1/-821997.4 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 =    2.66809 SEC       *
* SA/G PER 1893=    0.255, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0068 X    22750.50=     154.62 KN   *
*                                                       *
*********************************************************
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*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR Z 1893 LOADING =    2.66809 SEC       *
* SA/G PER 1893=    0.255, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0068 X    22750.50=     154.62 KN   *
*                                                       *
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228. FINISH

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

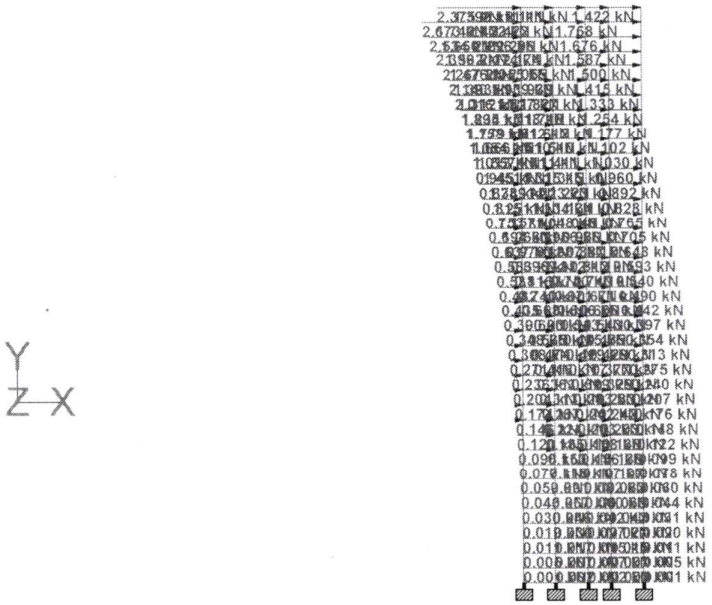
**** DATE= JAN 30,2025 TIME= 22:24:58 ****

Dr. J. SURESH, M.E., MIE., Ph.D.
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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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*                 http://www.bentley.com                    *
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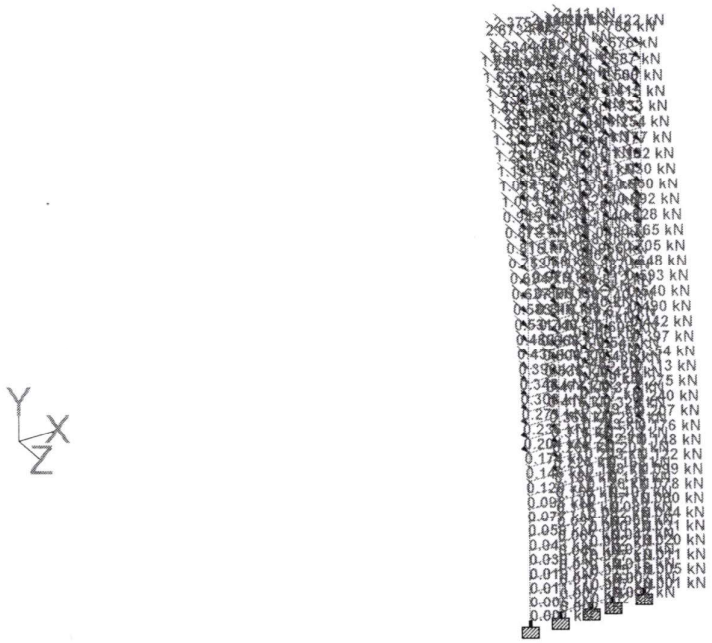
Dr. J. SURESH, M.E., MIE., Ph.D.
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Plot No. 555, VGP Layout, Mullai Street,
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Reg. No. SE/I/2024/2/0014
Reg. No. RSE100382019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005

Software licensed to STAAD.Pro CONNECTED User: Not signed in	Job No	Sheet No 1	Rev
	Part		
Job Title THE PROPOSED ADDITIONAL CONSTRUCTION OF RESIDENTIAL HIGHRISE GROUP	Ref		
	By Suresh	Date 9/17/2024	Chd Suresh
Client	File MELAKOTTAIYUR PHAS	Date/Time 30-Jan-2025 22:24	



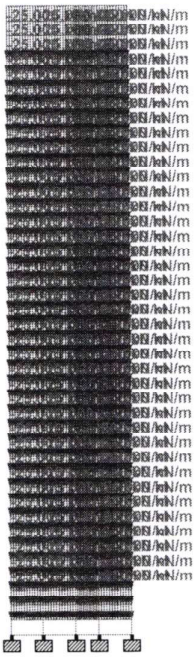


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Reg. No. SE/I/2024/2/0014
Reg. No. RSE100382019
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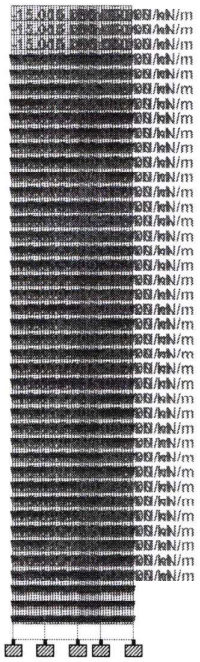
Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
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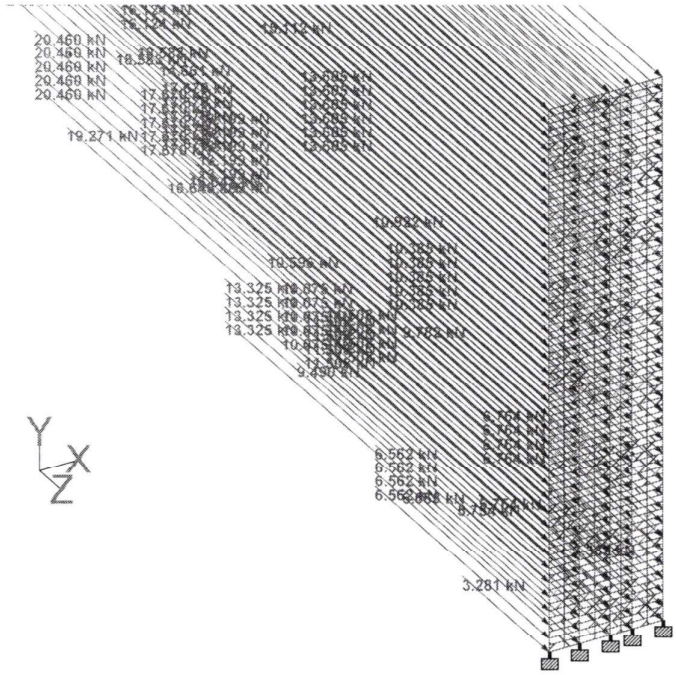




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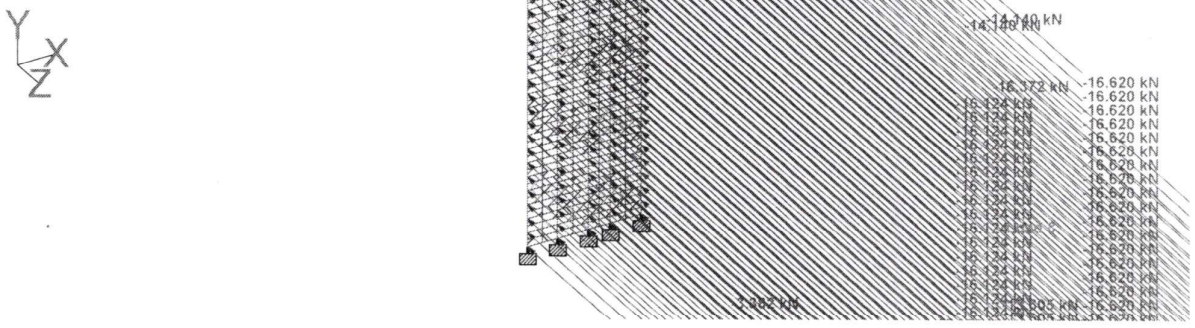
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	By Suresh	Date 9/17/2024	Chd Suresh
Client	File MELAKOTTAIYUR PHAS	Date/Time	30-Jan-2025 22:24



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