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DIGITALLY VERIFIED RECORD

R.VETRIVEL, M.Tech (Struct.)., F.I.V., C.E (I).,
Structural Engineer / Chartered Engineer / Approved Valuer / Corporation Registered Engineer / Govt. Approved Panel Engineer Class 1A
D-382, Gandhiyadigal Street, Annanagar, Tennur, Trichy-17.
Cell : 97893 33245 Email : rvetrimtech@rediffmail.com, ✆ 0431 - 4030245

Date :.....

STRUCTURAL STABILITY CERTIFICATE

(To be furnished while filing application for registration of building)

The detailed engineering and structure design of the proposed building comprising of Stilt + 5 floors with 30 Residential flats at S.F.No. 204/2B2, 204/3B2 & 205/6A in Mathavaperumal Kovil Village and Panchayat, Manachanallur Taluk, Trichy District. has been done by me/us based on the report of geotechnical investigation (soil test) done by TIME INSTITUTE FOR MATERIAL TESTING Report No.Time/07/Soil Test/August 2024 Dated 07/08/2024 and considering the functional requirement of the building.

2. It is certified that among other factors, the proposed building has been designed to resist earthquake. I/We have checked various parameters and found that the proposed building would be safe.

3. I/We further certify that:

(i) The minimum grade of concrete is M30

(ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456, design loads as per IS 875 and Design of earthquake resistant structure as per IS 1893

4. The building will be safe and sound when used for the purpose for which it is designed.

Stamp and Signature

Er.R.VETRIVEL, M.Tech(Struct).,F.I.V.,F.I.E(I).
Govt. Approved Panel Engineer Class-1A
Registered Structural Engineer
Reg.No:SE/Gr.1/DTCP/ TRICHY / June-2024 / 013
D-382, Gandhiyadigal Street,
Annanagar, Tennur, Trichy - 17
Cell: 97893 33245

Encl.: Structural Design Calculation

```
*****************************************************
*                                                   *
*           STAAD.Pro V8i SELECTseries6             *
*           Version  20.07.11.33                    *
*           Proprietary Program of                  *
*           Bentley Systems, Inc.                   *
*           Date=    SEP 22, 2025                   *
*           Time=    11:19:21                       *
*                                                   *
*      USER ID:                                     *
*****************************************************
```

```
    1. STAAD SPACE DXF IMPORT OF CC1.DXF
INPUT FILE: D:\CURRENT WORKING FILE\Stadd files\Tamil anban staad file\Tamil anban staad file\Tamil an.. .ST
    2. START JOB INFORMATION
    3. ENGINEER DATE 16-SEP-25
    4. JOB NAME APARTMENT BUILDING
    5. JOB CLIENT SINGARAVELAN
    6. JOB NO 1/9/25
    7. ENGINEER NAME LOKESH
    8. CHECKER NAME RVL
    9. APPROVED NAME RVL
   10. END JOB INFORMATION
   11. INPUT WIDTH 79
   12. UNIT METER KN
   13. JOINT COORDINATES
   14. 3 20.9101 0 -52.7348; 4 33.5526 0 -52.7348; 5 20.9101 0 -2.73097
   15. 6 32.2622 0 -2.73097; 7 32.2622 0 -5.89477; 8 20.9101 0 -5.89477
   16. 9 22.6701 0 -46.3508; 10 22.6701 0 -52.7348; 11 20.9101 0 -49.6248
   17. 12 33.5526 0 -49.6248; 13 30.3722 0 -39.4048; 14 30.3722 0 -52.7348
   18. 15 33.5526 0 -46.3508; 16 20.9101 0 -46.3508; 17 22.9701 0 -2.73097
   19. 18 22.9701 0 -46.3508; 19 32.9322 0 -42.5648; 20 20.9101 0 -42.5648
   20. 21 32.9322 0 -39.4048; 22 32.9322 0 -46.3508; 23 20.9101 0 -39.4048
   21. 24 29.6222 0 -36.7748; 25 29.6222 0 -39.4048; 26 32.6622 0 -36.7748
   22. 27 32.8122 0 -34.9448; 28 20.9101 0 -34.9448; 29 30.6022 0 -34.9448
   23. 30 30.6022 0 -36.7748; 31 32.6622 0 -34.9448; 32 32.6622 0 -39.4048
   24. 33 32.8122 0 -31.4648; 34 20.9101 0 -31.4648; 35 30.3722 0 -21.4548
   25. 36 30.3722 0 -34.9448; 37 33.1122 0 -28.3048; 38 20.9101 0 -28.3048
   26. 39 32.8122 0 -28.3048; 40 33.1122 0 -24.6148; 41 20.9101 0 -24.6148
   27. 42 33.1122 0 -21.4548; 43 20.9101 0 -21.4548; 44 32.7422 0 -18.8248
   28. 45 20.9101 0 -18.8248; 46 32.7422 0 -9.92477; 47 32.7422 0 -21.4548
   29. 48 30.3722 0 -2.73097; 49 30.3722 0 -18.8248; 50 30.3722 0 -16.7748
   30. 51 32.7422 0 -16.7748; 52 32.7422 0 -13.0848; 53 20.9101 0 -13.0848
   31. 54 20.9101 0 -9.92477; 55 32.2622 0 -9.92477; 56 22.9701 0 -5.89477
   32. 57 30.3722 0 -46.3508; 58 30.3722 0 -42.5648; 59 22.9701 0 -42.5648
   33. 60 22.9701 0 -39.4048; 61 22.9701 0 -34.9448; 62 22.9701 0 -31.4648
   34. 63 22.9701 0 -28.3048; 64 22.9701 0 -24.6148; 65 22.9701 0 -21.4548
   35. 66 22.9701 0 -18.8248; 67 22.9701 0 -13.0848; 68 22.9701 0 -9.92477
   36. 69 30.3722 0 -31.4648; 70 30.3722 0 -28.3048; 71 30.3722 0 -24.6148
   37. 72 22.6701 0 -49.6248; 73 30.3722 0 -49.6248; 74 20.9101 -3 -52.7348
   38. 75 33.5526 -3 -52.7348; 76 22.6701 -3 -52.7348; 77 30.3722 -3 -52.7348
```

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```
823. 2116 933 930 936 937; 2117 934 936 937 935; 2118 938 931 942 943
824. ELEMENT PROPERTY
825. 1759 TO 2118 THICKNESS 0.15
826. DEFINE MATERIAL START
827. ISOTROPIC CONCRETE
828. E 2.17185E+007
829. POISSON 0.17
830. DENSITY 23.5616
831. ALPHA 1E-005
832. DAMP 0.05
833. TYPE CONCRETE
834. STRENGTH FCU 27579
835. END DEFINE MATERIAL
836. MEMBER PROPERTY AMERICAN
837. 117 119 123 126 129 134 136 140 141 148 151 156 158 163 164 170 173 -
838. 179 TO 181 193 196 201 202 209 TO 211 213 PRIS YD 0.3 ZD 0.3
839. 112 113 120 125 133 135 146 147 155 157 169 171 172 182 183 194 195 198 200 -
840. 346 TO 364 639 TO 654 656 657 977 TO 992 994 995 1248 TO 1263 1265 1266 1519 -
841. 1520 TO 1534 1536 1537 PRIS YD 0.45 ZD 0.23
842. 114 115 121 122 127 128 132 137 TO 139 149 152 159 TO 162 168 174 TO 178 197 -
843. 199 203 TO 208 365 TO 394 PRIS YD 0.75 ZD 0.31
844. 150 395 PRIS YD 0.31 ZD 0.75
845. 608 TO 613 615 TO 638 655 946 TO 951 953 TO 976 993 1217 TO 1222 1224 TO 1247 -
846. 1264 1488 TO 1493 1495 TO 1518 1535 PRIS YD 0.75 ZD 0.23
847. 614 952 1223 1494 PRIS YD 0.23 ZD 0.75
848. 214 216 217 219 224 226 229 232 234 236 238 239 243 244 249 253 255 259 264 -
849. 265 TO 266 272 278 286 287 301 303 308 310 TO 315 317 318 320 321 399 400 -
850. 402 TO 418 423 424 426 428 430 431 433 TO 435 441 444 448 449 453 456 458 -
851. 459 465 468 471 472 474 475 480 481 488 489 491 492 494 495 497 498 502 509 -
852. 510 515 516 518 520 521 533 536 658 660 TO 662 665 667 669 672 673 675 677 -
853. 678 681 682 686 689 691 694 698 TO 700 704 710 716 717 729 TO 741 745 746 -
854. 748 TO 764 769 770 772 774 776 777 779 TO 781 786 788 791 792 796 799 801 -
855. 802 807 810 813 814 816 817 822 823 830 831 833 834 836 837 839 840 844 850 -
856. 851 856 857 859 861 862 873 876 996 998 TO 1000 1003 1005 1007 1010 1011 -
857. 1013 1015 1016 1019 1020 1024 1027 1029 1032 1036 TO 1038 1042 1048 1054 -
858. 1055 1067 TO 1079 1083 1084 1086 TO 1102 1107 1108 1110 1112 1114 1115 1117 -
859. 1118 TO 1119 1124 1126 1129 1130 1134 1137 1139 1140 1145 1148 1151 1152 1154 -
860. 1155 1160 1161 1168 1169 1171 1172 1174 1175 1177 1178 1182 1188 1189 1194 -
861. 1195 1197 1199 1200 1211 1214 1267 1269 TO 1271 1274 1276 1278 1281 1282 -
862. 1284 1286 1287 1290 1291 1295 1298 1300 1303 1307 TO 1309 1313 1319 1325 -
863. 1326 1338 TO 1350 1354 1355 1357 TO 1373 1378 1379 1381 1383 1385 1386 1388 -
864. 1389 TO 1390 1395 1397 1400 PRIS YD 0.53 ZD 0.23
865. 1401 1405 1408 1410 1411 1416 1419 1422 1423 1425 1426 1431 1432 1439 1440 -
866. 1442 1443 1445 1446 1448 1449 1453 1459 1460 1465 1466 1468 1470 1471 1482 -
867. 1485 1538 1540 TO 1542 1545 1547 1549 1552 1553 1555 1557 1558 1561 1562 -
868. 1566 1569 1571 1574 1578 TO 1580 1584 1590 1596 1597 1609 TO 1621 1625 1626 -
869. 1628 TO 1644 1649 1650 1652 1654 1656 1657 1659 TO 1661 1666 1668 1671 1672 -
870. 1676 1679 1681 1682 1687 1690 1693 1694 1696 1697 1702 1703 1710 1711 1713 -
871. 1714 1716 1717 1719 1720 1724 1730 1731 1736 1737 1739 1741 1742 1753 -
872. 1756 PRIS YD 0.53 ZD 0.23
873. 2 TO 52 54 TO 111 116 118 124 130 131 143 TO 145 153 154 165 TO 167 -
874. 184 TO 192 212 215 221 223 225 228 230 231 235 237 240 242 245 TO 247 250 -
875. 251 254 257 258 260 262 263 267 268 271 273 TO 277 281 TO 285 290 TO 300 -
876. 329 338 398 401 419 TO 422 425 427 429 432 436 437 439 440 443 445 446 450 -
877. 451 TO 452 454 455 457 460 461 463 464 466 467 469 470 473 476 TO 479 482 -
878. 483 TO 487 490 493 496 499 TO 501 503 TO 505 507 508 511 TO 514 517 519 522 -
```

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```
879. 523 TO 529 531 532 534 535 537 538 659 663 664 666 668 670 671 674 676 679 -
880. 680 683 TO 685 687 688 690 692 693 695 TO 697 701 TO 703 705 TO 709 -
881. 711 TO 715 718 TO 728 742 TO 744 747 765 TO 768 771 773 775 778 782 TO 785 -
882. 787 789 790 793 TO 795 797 798 800 803 TO 806 808 809 811 812 815 -
883. 818 TO 821 824 TO 829 832 835 838 841 TO 843 845 TO 849 852 TO 855 858 860 -
884. 863 TO 872 874 875 877 878 997 1001 1002 1004 1006 1008 1009 1012 1014 1017 -
885. 1018 1021 TO 1023 1025 1026 1028 1030 1031 1033 TO 1035 1039 TO 1041 1043 -
886. 1044 TO 1047 1049 TO 1053 1056 TO 1066 1080 TO 1082 1085 1103 TO 1106 1109 -
887. 1111 1113 1116 1120 TO 1123 1125 1127 1128 1131 TO 1133 1135 1136 1138 1141 -
888. 1142 TO 1144 1146 1147 1149 1150 1153 1156 PRIS YD 0.45 ZD 0.23
889. 1157 TO 1159 1162 TO 1167 1170 1173 1176 1179 TO 1181 1183 TO 1187 -
890. 1190 TO 1193 1196 1198 1201 TO 1210 1212 1213 1215 1216 1268 1272 1273 1275 -
891. 1277 1279 1280 1283 1285 1288 1289 1292 TO 1294 1296 1297 1299 1301 1302 -
892. 1304 TO 1306 1310 TO 1312 1314 TO 1318 1320 TO 1324 1327 TO 1337 -
893. 1351 TO 1353 1356 1374 TO 1377 1380 1382 1384 1387 1391 TO 1394 1396 1398 -
894. 1399 1402 TO 1404 1406 1407 1409 1412 TO 1415 1417 1418 1420 1421 1424 1427 -
895. 1428 TO 1430 1433 TO 1438 1441 1444 1447 1450 TO 1452 1454 TO 1458 -
896. 1461 TO 1464 1467 1469 1472 TO 1481 1483 1484 1486 1487 1539 1543 1544 1546 -
897. 1548 1550 1551 1554 1556 1559 1560 1563 TO 1565 1567 1568 1570 1572 1573 -
898. 1575 TO 1577 1581 TO 1583 1585 TO 1589 1591 TO 1595 1598 TO 1608 -
899. 1622 TO 1624 1627 1645 TO 1648 1651 1653 1655 1658 1662 TO 1665 1667 1669 -
900. 1670 1673 TO 1675 1677 1678 1680 1683 TO 1686 1688 1689 1691 1692 1695 1698 -
901. 1699 TO 1701 1704 TO 1709 1712 1715 1718 1721 TO 1723 1725 TO 1729 -
902. 1732 TO 1735 1738 1740 1743 TO 1752 1754 1755 1757 -
903. 1758 PRIS YD 0.45 ZD 0.23
904. CONSTANTS
905. MATERIAL CONCRETE ALL
906. SUPPORTS
907. 74 TO 77 79 81 TO 85 87 TO 91 94 TO 103 107 TO 113 116 TO 125 129 TO 144 151 -
908. 152 TO 169 171 FIXED
909. DEFINE 1893 LOAD
910. ZONE 0.1 RF 3 I 1 DM 0.05 PX 0.4 PZ 0.4 DT 3 SA 2.5
911. SELFWEIGHT 1
912. JOINT WEIGHT
913. 3 TO 103 105 TO 177 179 TO 192 195 TO 242 249 255 TO 257 262 TO 277 -
914. 279 TO 291 293 TO 320 322 TO 336 338 TO 943 WEIGHT 1
915. 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.

916. TYPE 1 WIND 1
917. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
918. ASCE-7-2010:PARAMS 85.000 MPH 0 1 1 0 0.000 FT 0.000 FT 0.000 FT 1 -
919. 1 40.000 FT 30.000 FT 25.000 FT 2.000 0.010 0 -
920. 0 0 0 0 0.761 1.000 1.000 0.850 0 -
921. 0 0 0 0.866 0.800 -0.550
922. !> END GENERATED DATA BLOCK
923. INT 0.614555 0.614555 0.625063 0.634749 0.643753 0.652179 0.66011 0.667609 -
924. 0.67473 0.681515 0.688 0.694215 0.700185 0.705932 0.711476 HEIG  0  4.572 -
925. 5.15815  5.74431  6.33046  6.91662  7.50277  8.08892  8.67508  9.26123 -
926. 9.84739  10.4335  11.0197  11.6059  12.192
927. EXP 0 JOINT 3 TO 103 105 TO 177 179 TO 192 195 TO 242 249 255 TO 257 -
928. 262 TO 277 279 TO 291 293 TO 320 322 TO 336 338 TO 943
929. LOAD 1 LOADTYPE SEISMIC  TITLE EQ
```

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```
930. 1893 LOAD X 1
931. LOAD 2 LOADTYPE WIND  TITLE WL
932. WIND LOAD X 1 TYPE 1 YR 0 14.52
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
933. LOAD 3 LOADTYPE DEAD  TITLE DL
934. SELFWEIGHT Y -1
935. MEMBER LOAD
936. 2 TO 52 54 TO 111 116 118 124 130 131 143 TO 145 153 154 165 TO 167 -
937. 184 TO 192 212 214 TO 217 219 221 223 TO 226 228 TO 232 234 TO 240 -
938. 242 TO 247 249 TO 251 253 TO 255 257 TO 260 262 TO 268 271 TO 278 -
939. 281 TO 287 290 TO 301 303 308 310 TO 315 317 318 320 321 329 338 398 TO 437 -
940. 439 TO 441 443 TO 446 448 TO 461 463 TO 505 507 TO 529 531 TO 538 -
941. 658 TO 878 996 TO 1216 1267 TO 1487 UNI GY -11.75
942. 1538 TO 1758 UNI GY -5.52
943. LOAD 4 LOADTYPE LIVE  TITLE LL
944. FLOOR LOAD
945. YRANGE 0 14.52 FLOAD -3 GY
**NOTE** about Floor/OneWay Loads/Weights.
Please note that depending on the shape of the floor you may
have to break up the FLOOR/ONEWAY LOAD into multiple commands.
For details please refer to Technical Reference Manual
Section 5.32.4.2 Note d and/or "5.32.4.3 Note f.

946. LOAD COMB 5 COMBINATION LOAD CASE 5
947. 1 1.2 2 1.2 3 1.5 4 1.2
948. PDELTA 3 ANALYSIS SMALLDELTA
```

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

NUMBER OF JOINTS	918	NUMBER OF MEMBERS	1565
NUMBER OF PLATES	360	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	78

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

```
 ORIGINAL/FINAL BAND-WIDTH=   181/    74/    420 DOF
TOTAL      PRIMARY LOAD CASES =     4, TOTAL DEGREES OF FREEDOM =    5040
TOTAL LOAD COMBINATION  CASES =     1  SO FAR.
 SIZE OF STIFFNESS MATRIX =     2117 DOUBLE  KILO-WORDS
 REQRD/AVAIL. DISK SPACE  =     39.2/ 190399.5 MB
```

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Tamil anban.anl - STAAD Output Viewer

File Edit View Help

NOTES

*** NOTE: If any floor diaphragm is pre

NOTE about Floor/OneWay Loads/

WARNING

```
-----------------------------------< PAGE 18 Ends Here >-----------------------------
    DXF IMPORT OF CC1.DXF                                        -- PAGE NO.    19


 **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.



  ************************************************************
  *                                                          *
  * TIME PERIOD FOR X 1893 LOADING =     0.40000 SEC         *
  * SA/G PER 1893=     2.500, LOAD FACTOR= 1.000             *
  * FACTOR V  PER 1893 AT GL=     0.0417 X  22017.30         *
  * FACTOR V  PER 1893 AT 30 M=     0.0209 X  22017.30       *
  *       FACTOR V  PER 1893=     0.0396 X  22017.30         *
  *                                                          *
  ************************************************************

  ++ Adjusting Displacements.
  ++ Adjusting Displacements.
  ++ Adjusting Displacements.


  947. FINISH
-----------------------------------< PAGE 19 Ends Here >-----------------------------
    DXF IMPORT OF CC1.DXF                                        -- PAGE NO.    20
```

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Cell: 97893 33245

Job Information

	Engineer	Checked	Approved
Name:	Lokesh	Rvl	Rvl
Date:	16-Sep-25		

Structure Type	SPACE FRAME

Number of Nodes	918	Highest Node	943
Number of Elements	1565	Highest Beam	1758
Number of Plates	360	Highest Plate	2118

Number of Basic Load Cases	4
Number of Combination Load Cases	1

Included in this printout are data for:

All	The Whole Structure

Included in this printout are results for load cases:

Type	L/C	Name
Primary	1	EQ
Primary	2	WL
Primary	3	DL
Primary	4	LL
Combination	5	COMBINATION LOAD CASE 5

Primary Load Cases

Number	Name	Type
1	EQ	Seismic
2	WL	Wind
3	DL	Dead
4	LL	Live

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
5	COMBINATION LOAD CASE 5	1	EQ	1.20
		2	WL	1.20
		3	DL	1.50
		4	LL	1.20

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Node Displacement Summary

	Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
Max X	932	1:EQ	**8.422**	0.105	-0.011	8.423	-0.000	0.000	0.000
Min X	813	3:DL	**-10.366**	-1.982	-0.539	10.567	-0.000	-0.000	0.001
Max Y	174	1:EQ	2.449	**1.193**	-0.003	2.724	-0.000	-0.000	-0.001
Min Y	770	5:COMBINATI(	-3.534	**-17.780**	-1.046	18.158	0.002	-0.000	0.003
Max Z	71	5:COMBINATI(	0.776	-1.402	**0.189**	1.614	0.000	0.000	-0.000
Min Z	846	5:COMBINATI(	-1.406	-7.402	**-2.105**	7.823	0.001	-0.000	0.001
Max rX	768	5:COMBINATI(	-3.338	-12.512	-1.046	12.992	**0.002**	-0.000	-0.001
Min rX	459	5:COMBINATI(	0.644	-7.146	-0.257	7.179	**-0.002**	-0.000	0.001
Max rY	25	5:COMBINATI(	0.804	-1.072	0.026	1.340	0.000	**0.000**	0.000
Min rY	825	5:COMBINATI(	-0.830	-2.568	-2.102	3.421	0.001	**-0.000**	0.000
Max rZ	713	5:COMBINATI(	-3.904	-14.305	-1.566	14.911	-0.001	-0.000	**0.004**
Min rZ	567	5:COMBINATI(	0.824	-8.647	-0.858	8.728	-0.000	-0.000	**-0.003**
Max Rst	770	5:COMBINATI(	-3.534	-17.780	-1.046	**18.158**	0.002	-0.000	0.003

Beam Maximum Shear Forces

Distances to maxima are given from beam end A.

Beam	Node A	Length (m)	L/C		d (m)	Max Fz (kN)	d (m)	Max Fy (kN)
2	3	1.760	1:EQ	Max +ve	0.000	0.156		
				Max -ve			0.000	-25.951
			2:WL	Max +ve	0.000	0.000	0.000	0.000
				Max -ve	0.000	0.000	0.000	0.000
			3:DL	Max +ve			0.000	17.575
				Max -ve	0.000	-0.346	1.760	-7.397
			4:LL	Max +ve	0.000	0.008	0.000	2.419
				Max -ve				
			5:COMBINATI(	Max +ve				
				Max -ve	0.000	-0.322	1.760	-42.120
3	5	3.164	1:EQ	Max +ve			0.000	0.006
				Max -ve	0.000	-0.033		
			2:WL	Max +ve	0.000	0.000	0.000	0.000
				Max -ve	0.000	0.000	0.000	0.000
			3:DL	Max +ve	0.000	0.041	0.000	17.902
				Max -ve			3.164	-26.988
			4:LL	Max +ve	0.000	0.025	0.000	2.393
				Max -ve			3.164	-4.200
			5:COMBINATI(	Max +ve	0.000	0.052	0.000	29.732
				Max -ve			3.164	-45.515
4	6	1.890	1:EQ	Max +ve	0.000	0.094	0.000	25.446
				Max -ve				
			2:WL	Max +ve	0.000	0.000	0.000	0.000
				Max -ve	0.000	0.000	0.000	0.000
			3:DL	Max +ve			0.000	10.478
				Max -ve	0.000	-0.199	1.890	-16.347
			4:LL	Max +ve			0.000	1.911
				Max -ve	0.000	-0.012	1.890	-1.683
			5:COMBINATI(	Max +ve			0.000	47.453
				Max -ve	0.000	-0.200		
5	7	1.890	1:EQ	Max +ve	0.000	0.132	0.000	25.948

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Plate Center Stress Summary

	Plate	L/C	Shear		Membrane			Bending		
			Qx (N/mm^2)	Qy (N/mm^2)	Sx (N/mm^2)	Sy (N/mm^2)	Sxy (N/mm^2)	Mx (kNm/m)	My (kNm/m)	Mxy (kNm/m)
Max Qx	2043	5:COMBINATI(	**0.487**	-0.048	-0.009	0.021	-0.006	-0.226	-8.408	-0.127
Min Qx	1930	5:COMBINATI(	**-0.114**	0.038	0.011	0.002	-0.006	0.407	1.571	2.222
Max Qy	1762	5:COMBINATI(	-0.054	**0.173**	-0.003	-0.001	-0.004	-4.202	-0.231	-0.817
Min Qy	1768	5:COMBINATI(	-0.003	**-0.177**	0.012	0.035	0.014	-1.105	-1.081	0.845
Max Sx	1814	5:COMBINATI(	0.072	0.033	**0.093**	-0.037	-0.032	-4.620	-2.476	-0.371
Min Sx	2102	5:COMBINATI(	0.040	0.047	**-0.213**	0.085	0.069	-4.018	-2.352	0.100
Max Sy	2102	5:COMBINATI(	0.040	0.047	-0.213	**0.085**	0.069	-4.018	-2.352	0.100
Min Sy	2100	5:COMBINATI(	-0.003	0.024	-0.059	**-0.172**	0.058	2.908	6.947	0.057
Max Sxy	2102	5:COMBINATI(	0.040	0.047	-0.213	0.085	**0.069**	-4.018	-2.352	0.100
Min Sxy	2101	5:COMBINATI(	-0.015	0.010	-0.103	0.010	**-0.049**	4.272	2.876	0.111
Max Mx	2044	5:COMBINATI(	-0.015	-0.072	0.021	-0.011	0.002	**8.232**	2.320	0.116
Min Mx	1975	5:COMBINATI(	-0.004	0.000	0.011	0.002	0.004	**-7.088**	-0.422	1.200
Max My	2034	5:COMBINATI(	-0.005	-0.025	-0.003	0.011	-0.001	4.978	**13.384**	-0.774
Min My	2013	5:COMBINATI(	-0.006	-0.094	0.001	-0.006	-0.004	-3.791	**-10.569**	0.060
Max Mxy	1826	5:COMBINATI(	0.105	-0.030	0.040	0.015	0.016	-2.180	-1.384	**5.139**
Min Mxy	1794	5:COMBINATI(	-0.009	-0.114	0.004	0.061	0.050	-0.414	0.600	**-3.155**

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Reaction Summary

	Node	L/C	Horizontal FX (kN)	Vertical FY (kN)	Horizontal FZ (kN)	Moment MX (kNm)	Moment MY (kNm)	Moment MZ (kNm)
Max FX	159	3:DL	**6.537**	105.711	-2.840	-2.639	0.045	-6.995
Min FX	113	5:COMBINATIC	**-37.451**	1.49E+3	-2.043	-2.740	0.880	81.889
Max FY	162	5:COMBINATIC	-23.417	**3.21E+3**	-8.576	-8.366	0.180	57.870
Min FY	74	1:EQ	-6.737	**-120.178**	0.216	0.193	0.021	13.438
Max FZ	138	5:COMBINATIC	-23.566	3.02E+3	**9.445**	10.036	0.080	59.166
Min FZ	162	5:COMBINATIC	-23.417	3.21E+3	**-8.576**	-8.366	0.180	57.870
Max MX	138	5:COMBINATIC	-23.566	3.02E+3	9.445	**10.036**	0.080	59.166
Min MX	129	5:COMBINATIC	-25.223	1.73E+3	-8.538	**-10.116**	-0.018	61.004
Max MY	113	5:COMBINATIC	-37.451	1.49E+3	-2.043	-2.740	**0.880**	81.889
Min MY	110	5:COMBINATIC	-33.774	1.93E+3	2.663	1.595	**-0.540**	77.618
Max MZ	113	5:COMBINATIC	-37.451	1.49E+3	-2.043	-2.740	0.880	**81.889**
Min MZ	76	3:DL	1.933	672.762	3.493	4.094	-0.064	**-15.220**

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Beam End Force Summary

The signs of the forces at end B of each beam have been reversed. For example: this means that the Min Fx entry gives the largest tension value for an beam.

				Axial	Shear		Torsion	Bending	
	Beam	Node	L/C	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
Max Fx	204	162	5:COMBINATIC	**3.21E+3**	23.417	8.576	0.180	8.366	-57.870
Min Fx	112	3	1:EQ	**-120.178**	6.737	-0.216	0.021	0.456	6.674
Max Fy	1350	658	5:COMBINATIC	-5.004	**210.679**	-0.439	0.609	0.392	288.215
Min Fy	533	255	5:COMBINATIC	-18.836	**-358.121**	1.863	-28.549	0.791	351.956
Max Fz	1549	834	5:COMBINATIC	-1.676	17.243	**51.435**	-7.000	-6.347	-1.652
Min Fz	1547	832	5:COMBINATIC	-3.518	28.787	**-43.932**	4.946	6.212	2.174
Max Mx	1291	690	5:COMBINATIC	-0.109	65.436	0.429	**28.960**	-0.036	19.512
Min Mx	468	297	5:COMBINATIC	-2.424	-281.921	-3.447	**-62.979**	1.046	146.624
Max My	385	235	5:COMBINATIC	2.8E+3	-1.476	-32.556	0.197	**55.700**	20.810
Min My	1494	800	5:COMBINATIC	420.489	-14.020	-37.507	0.300	**-58.180**	21.967
Max Mz	533	255	5:COMBINATIC	-18.836	-358.121	1.863	-28.549	0.791	**351.956**
Min Mz	1466	780	5:COMBINATIC	-4.885	-172.458	-0.128	16.453	0.089	**-184.350**

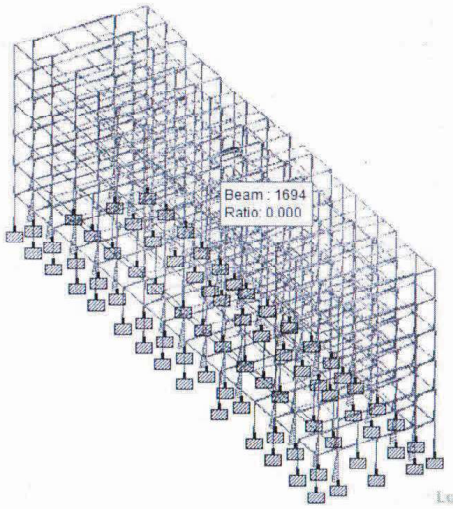
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STAAD.Pro V8i (SELECTseries 6) - Tamil anban

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Modeling Piping Postprocessing Foundation Design Steel Design RAM Connection Concrete Design Advanced Slab Design

Tamil anban - Whole Structure



Tamil anban - Beam End Forces

All Summary Envelope

Beam	L/C	Node	Fx kN	Fy kN	Fz kN	Mx kNm	My kNm	Mz kNm
2	1 EQ	3	2.349	-25.951	0.156	0.264	-0.158	-20.26
		10	-2.349	25.951	-0.156	-0.264	-0.116	-25.40
	2 WL	3	0.000	0.000	0.000	0.000	0.000	0.00
		10	0.000	0.000	0.000	0.000	0.000	0.00
	3 DL	3	0.881	17.575	-0.348	-0.499	0.377	6.26
		10	-0.881	7.397	0.348	0.499	0.232	2.74
	4 LL	3	-0.078	2.419	0.008	-0.176	0.009	1.26
		10	0.078	-0.096	-0.008	0.176	-0.023	0.95
	5 COMBINATI	3	4.046	-1.874	-0.322	-0.644	0.385	-13.49

Tamil anban - Beam Force Detail

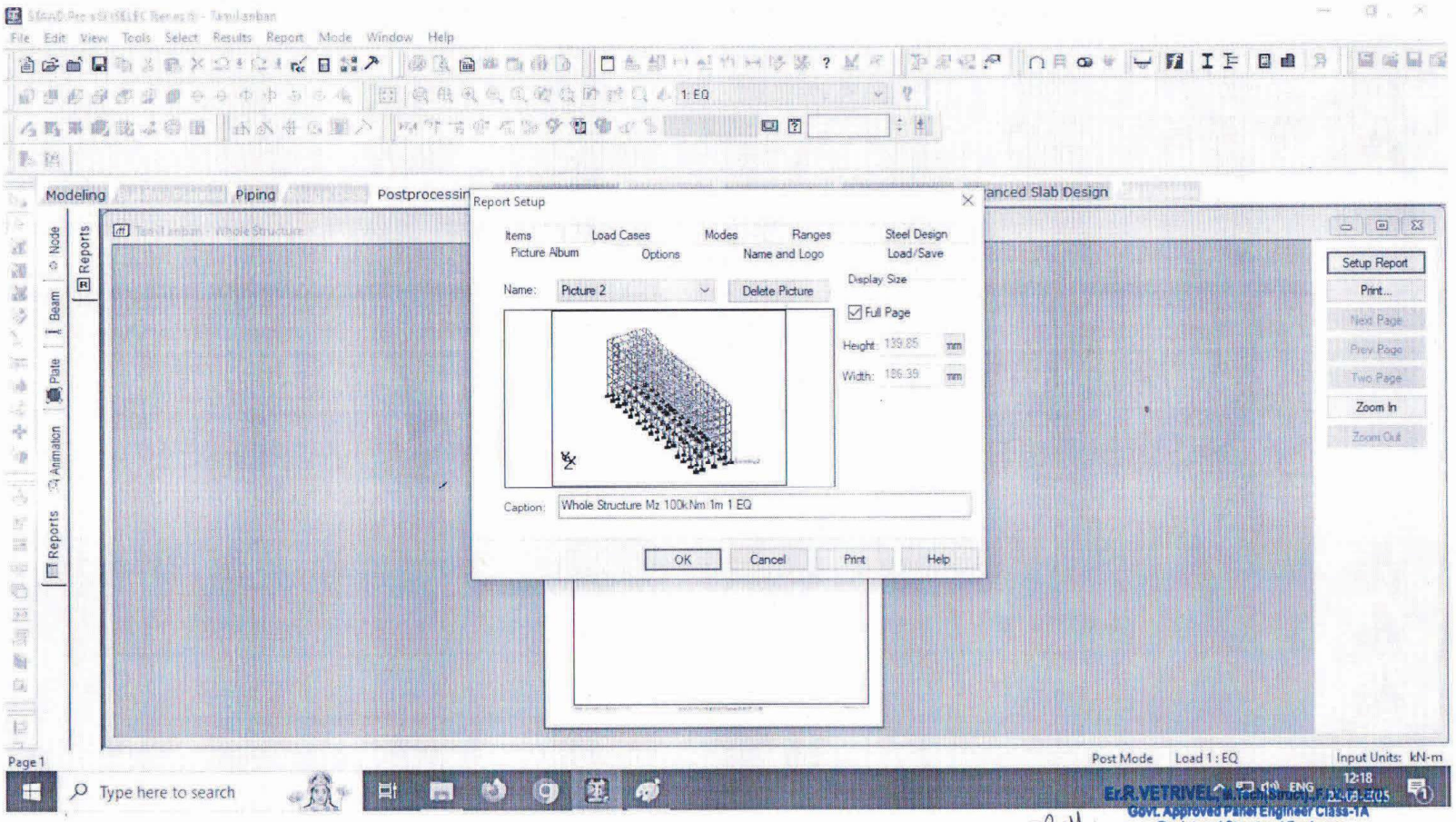
All Max Axial Forces Max Bending Moments Max Shear Forces

Beam	L/C	Dist m	Fx kN	Fy kN	Fz kN	Mx kNm	My kNm	Mz kNm
2	1 EQ	0.000	2.349	-25.951	0.156	0.264	-0.158	-20.26
		0.440	2.349	-25.951	0.156	0.264	-0.090	-8.85
		0.880	2.349	-25.951	0.156	0.264	-0.021	2.56
		1.320	2.349	-25.951	0.156	0.264	0.047	13.98
		1.760	2.349	-25.951	0.156	0.264	0.116	25.40
	2 WL	0.000	0.000	0.000	0.000	0.000	0.000	0.00
		0.440	0.000	0.000	0.000	0.000	0.000	0.00
		0.880	0.000	0.000	0.000	0.000	0.000	0.00
		1.320	0.000	0.000	0.000	0.000	0.000	0.00

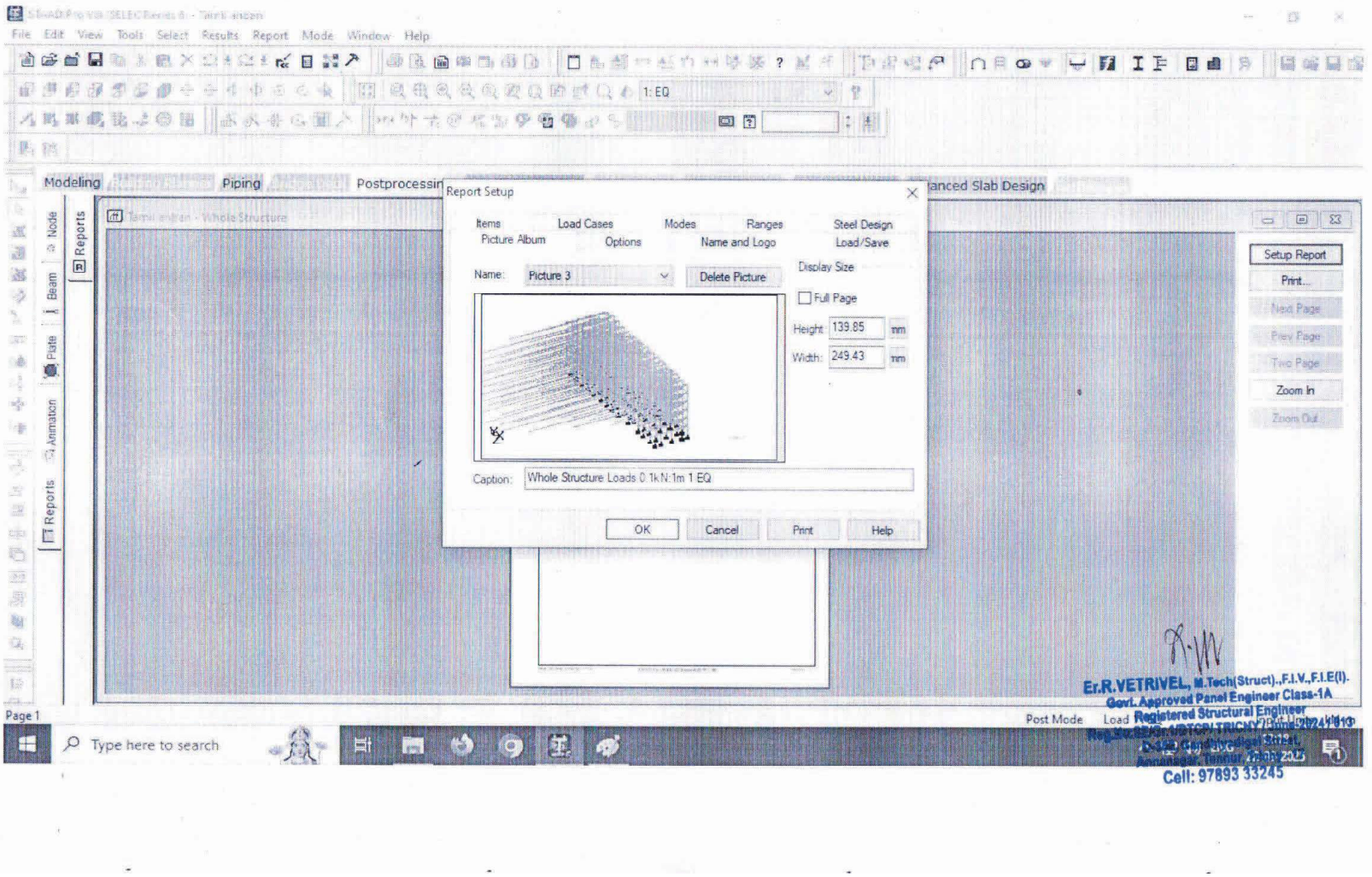
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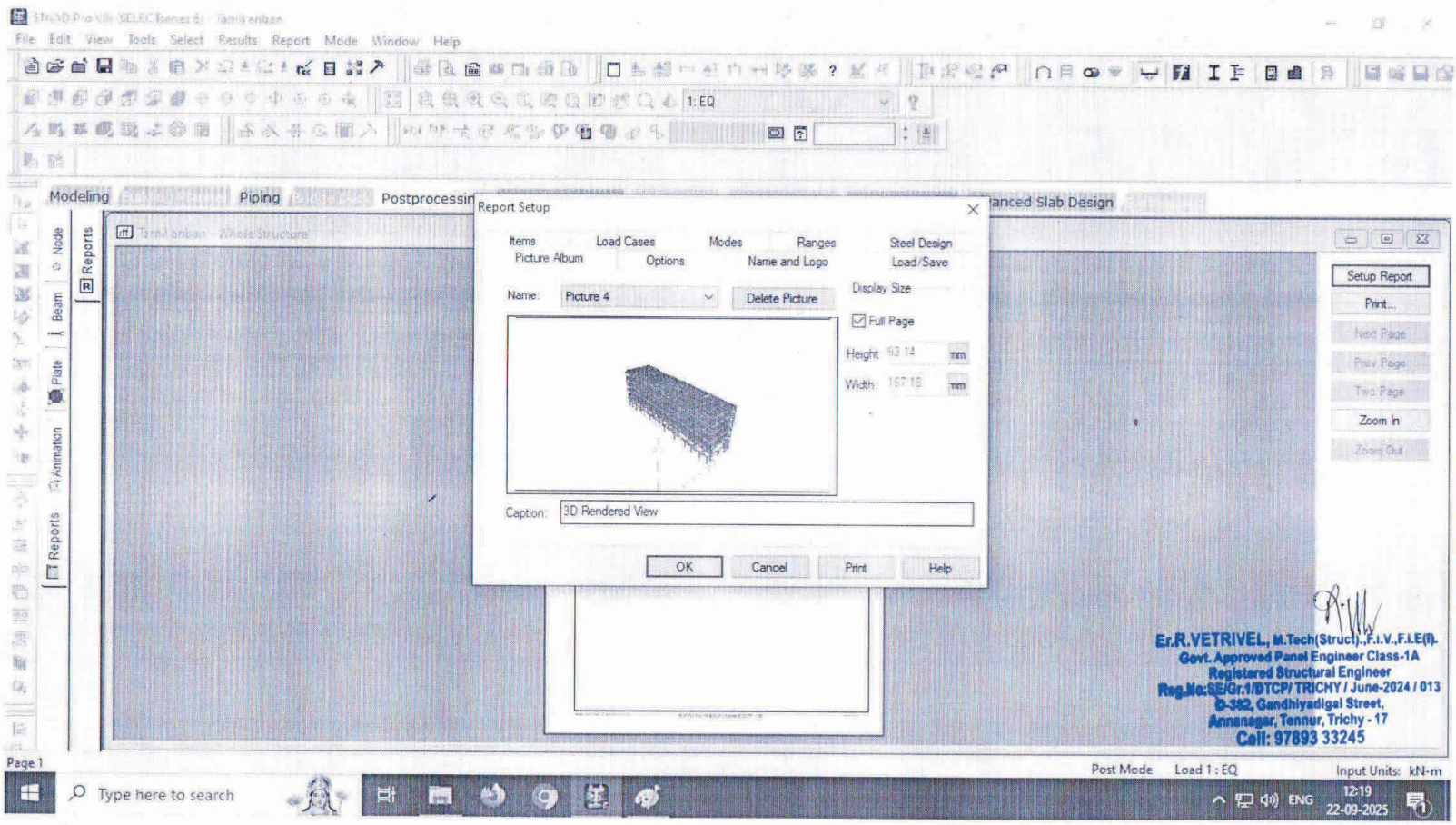
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THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

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Services we run for you
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The LandLens suite
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Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.