**ANALYSIS AND DESIGN OF SHOPPING MALL**

**ABSTRACT:**

* A shopping wall is a structure primarily designed for people to buy a variety of products at one place.
* Location of the building placed for construction is **Thuraiyur, Trichy**.
* The area of the plot is **5000sq.ft**. with contains of 16 shops, **2 floors** and it should be planned to make it comfortable shopping.
* The dimension of this building is **length = 50ft, breadth = 100ft**
* The total number of columns and beams is **66 nos and 96 nos .**
* In this shopping mall, we provide **emergency exits, lift and staircase** arrangement with handrails.
* The entire structure is constructed with single **type of footing, column, beam, and two-way slabs**
* To plan the shopping mall by using **2D and AUTO CADD software**.

* To draw the **footing, column and beam** marking by using Auto CADD software.
* To show the **3D view** of the building by using **REVIT Architecture**.
* To Prepare the report based on the analysis and design of the structure.
* To analyze the **Moment and load distribution** of the structural components to ensure the structural integrity of the building.
* To design the structural components **(Slab, Beam, Column, staircase and footing)** by referring the **IS:456-2000, SP-16, IS 875** code books.

**METHODOLOGY:**

* Study the various types of literature.
* Draw the plan, section and elevation by using auto CAD software.
* Mark the column , footing and beam of the diagram.
* Show the 3D view of the drawing by using Revit software.
* Analyze the Shear, Moment and Load distribution of the structural components.
* Design the structural components of slab, beam, column, footing and staircase.
* Report

A diagram of a diagram

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