**PLANNING, ANALYSIS AND DESIGN OF RESIDENSIAL BUILDING(G+1)**

**ABSTRACT:**

* This 5BHK (5-Bedroom Hall Kitchen) project represents the epitome of luxury living, designed to offer an expansive and elegant residential space that meets the needs of modern families.
* This project incorporates contemporary architectural elements, blending aesthetics with functionality to offer a luxurious yet practical living experience.
* The home offers personalized space for each family member, catering to both privacy and communal living needs. With spacious bedrooms, a large living area, a fully equipped kitchen, and various amenities. Like en-suite bathrooms, balconies, and utility spaces.
* Location of the building planed for construction is Morais city, Near airport, Trichy.
* The total number columns provided is 21nos (size of column =12” x 15”)
* The type of footing provided is slopped footing the dimension of footing is (4’ x 3’)
* Dimensions of building are length-30’, breadth-35’ the area of the building is approximately 1000sqft.
* To ensure that each room is thoughtfully planned to maximize space utilization while offering comfort and luxury.
* To plan the residential building by using AUTO CADD.
* To prepare a report based on the analysis and design of the structure.
* To design the structural components (Slab, Beam, Column, Footing).
* To analyze the Moment and load distribution of the structural components to ensure the structural integrity of the building.

METHODOLOGY

