**PLANNING, ANALYSIS AND DESIGN OF MULTI-PURPOSE RESTAURANT (G+2)**

**ABSTRACT:**

* The goal of this design project is to create a functional and efficient fast-food restaurant with party hall utilizing reinforced concrete elements.
* The design has been done adhering to the Indian standard codes - IS456:2000 for concrete structure design.
* Reinforced concrete is a durable sustainable material that can be used to create a variety of structural elements such as beam, column, slab, footings and staircases were designed.
* The restaurant building consists of three floors. It includes variety of amenities such as kitchen area with cold storage, drive in, cooking, packing, counter & billing and dining hall area with hand wash, stairs, rest rooms and party hall with reception.
* The dimensions for the fast-food restaurant building, building length = 12.65m & building width = 13.7m and the total buildup area sums up to be approximately 170 meter squared.
* The fast-food restaurant building is suitable for urban area like a bustling city center with high foot traffic, surrounded by office buildings, residential buildings.
* To create a sustainable and better form of fast-food restaurant building to meet the existing and future demands.
* To plan the fast-food restaurant building with party hall by using AUTO CADD.
* 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, Footing).
* To prepare the project report based on the analysis and design of the structure.

METHODOLOGY

