

# ICES 2024

TITLE OF PROJECT: DESIGN AND ANALYSIS OF G+2 RESIDENTIAL BUILDING BY BIM SOFTWARE

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ABSTRACT (150-300 words):

**\*Refer Website for Guidelines\***

In this project work, an attempt has been made to plan, design and estimate a G+2 storied Residential building. This project work involves planning, analysis and designs of a typical multistoried building. The salient features of the G+2 storied building are as given below the basement floor is 0.90m above the existing ground level. The Residential building consists of G+ 2 floors with 3.00m ceiling height. The carpet area available in each floor is 1500sq.ft. This Residential building having all facilities like Entrance with foyer, Living, Dining, Pooja room, Bed room, Dressing room, Study room, Guest room, kitchen and Bath room & toilet, etc. with very good water supply and sanitary arrangements. The planned Single storey Residential building frame in modeled in STAAD Pro. Various load combinations are included in the frame analysis. The amount of concrete and steel required is calculated. The structural design has been manually done. Necessary structural drawings are enclosed at appropriate places.

KEYWORDS: STADD PRO

CATEGORY: STRUCTURAL ENGINEERING

