



## Structural Design Services

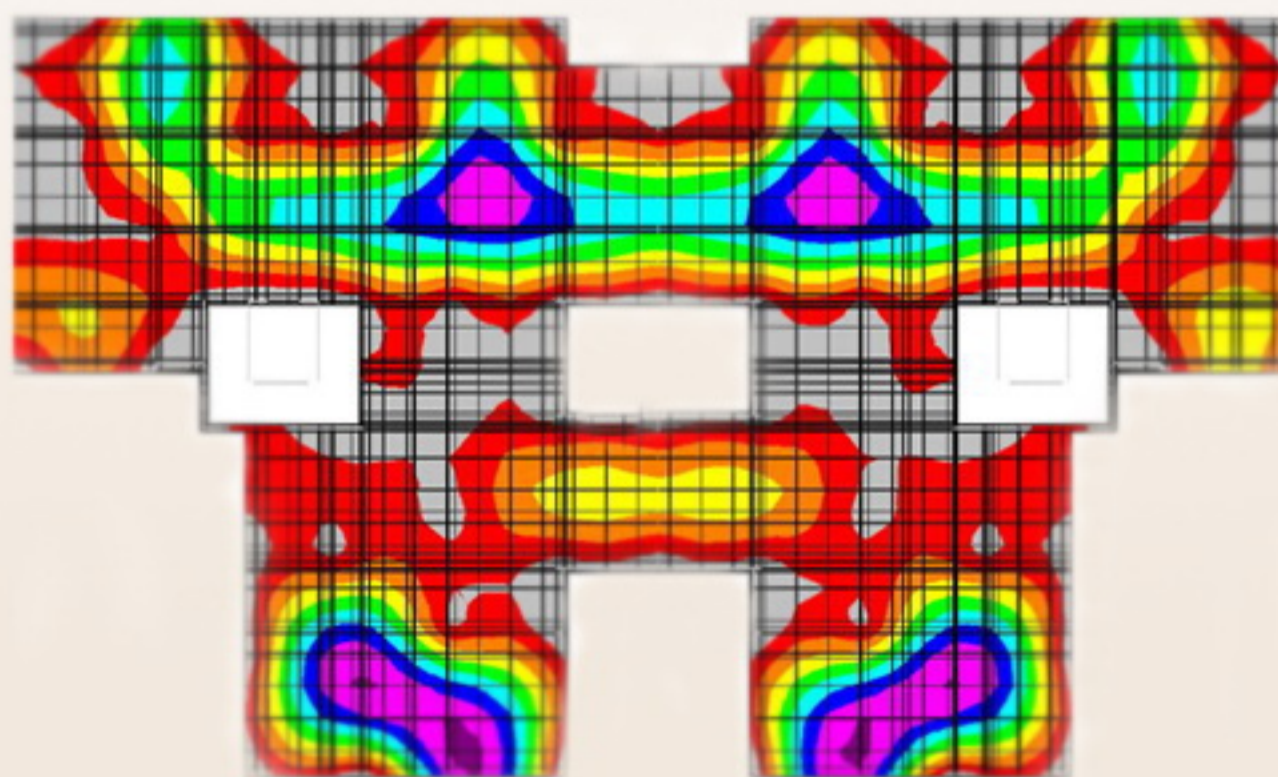
*“Our expertise in structural design enables us to understand your need and offer qualitative design services at competitive cost”*

## Structural Analysis & Structural Design

We amalgamate the current and evolving technologies to form extensible and adaptable solutions for Structural Analysis, Designing and Detailing of different types of structures. In-house small programs are developed by our engineers for analysis and design of individual structural elements as per relevant standards. Some of the structures for which we offer structural design services are mentioned below

### Steel Structures

- o Commercial Buildings
- o Industrial buildings like Power Plants, Chemical Plants, Refineries (Oil & Gas), Pipe Racks, Cement Processing Units
- o Transmission Towers
- o Bridges
- o Institutional Buildings like Schools
- o Roof Trusses



### Wooden Frame Structures

- o Residential Buildings
- o Commercial Buildings



### Reinforced Concrete & Pre-stressed Concrete Structures

- o Residential Buildings
- o Commercial Buildings
- o Water Retaining Structures
- o Institutional Buildings like Schools
- o Hospitals
- o Industrial Buildings
- o Infrastructures

### Pre Cast Panel Structures

- o Residential Buildings
- o Commercial Buildings
- o Modular Structures

Collaborate With Us...

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# Hairu Engineering Consultancy (Pvt) Ltd

Consultant Engineers, Planners, Quantity Surveyors & Project Managers

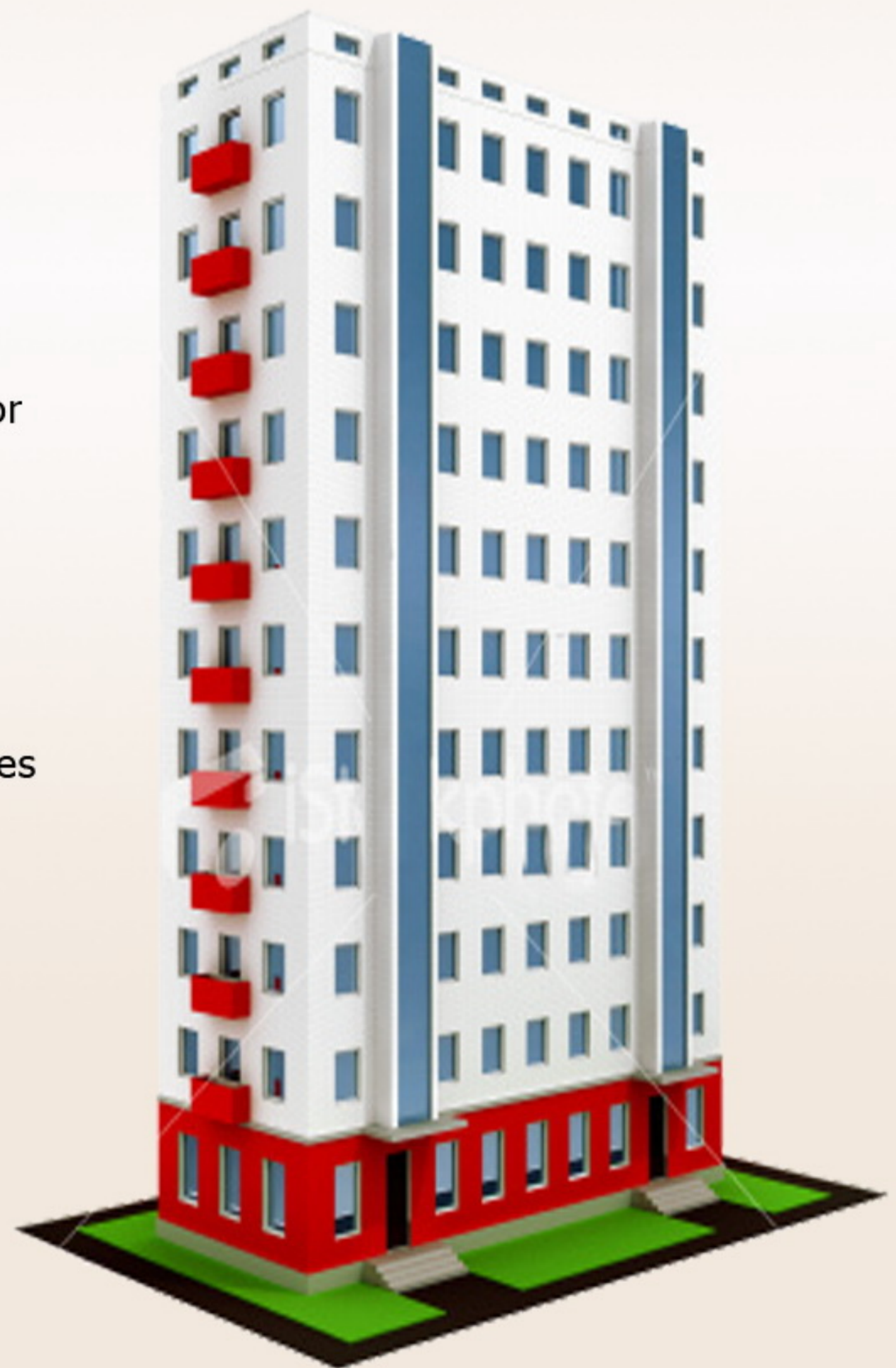


## Building/Design Codes & Reference Books

- o International Building Code
- o Uniform Building Code
- o International Residential Code
- o ACI 318 Building Code Requirements for Structural Concrete and Commentary
- o ACI 530/ASCE 5 Building Code Requirements for Masonry Structures
- o BS 8110 Structural Use of Concrete
- o BS 5950 Structural Use of Steel
- o BS 8007 Design of Concrete Structures for Retaining Aqueous Liquids
- o BS 8004 Foundations
- o BS 8002 Earth Retaining Structures
- o BS 6399 Loading for Buildings
- o BS 5628 Use of Masonry
- o BS 5268 Structural Use of Timber
- o Eurocode 02 Design of Concrete Structures
- o Eurocode 03 Design of Steel Structures
- o Eurocode 08 Design of Structures for Earthquake Resistance
- o AISC Manual for Steel Construction
- o ASCE 7 Minimum Design Loads
- o ASTM Codes and Standards
- o NDS 2005 Manuals
- o PCI Design Handbooks
- o SSMA Load Tables
- o Hilti North American Product Technical Guide
- o FEMA Codes

## Software

- Tekla Structures
- CSI SAP2000
- CSI Etabs
- CSI SAFE
- SCIA ESA PT
- GT Strudel
- Bentley STAADPro
- Enercalc
- Autodesk REVIT Structure
- AutoCAD
- CADS RC
- Rebar CAD
- Autodesk AutoSketch



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