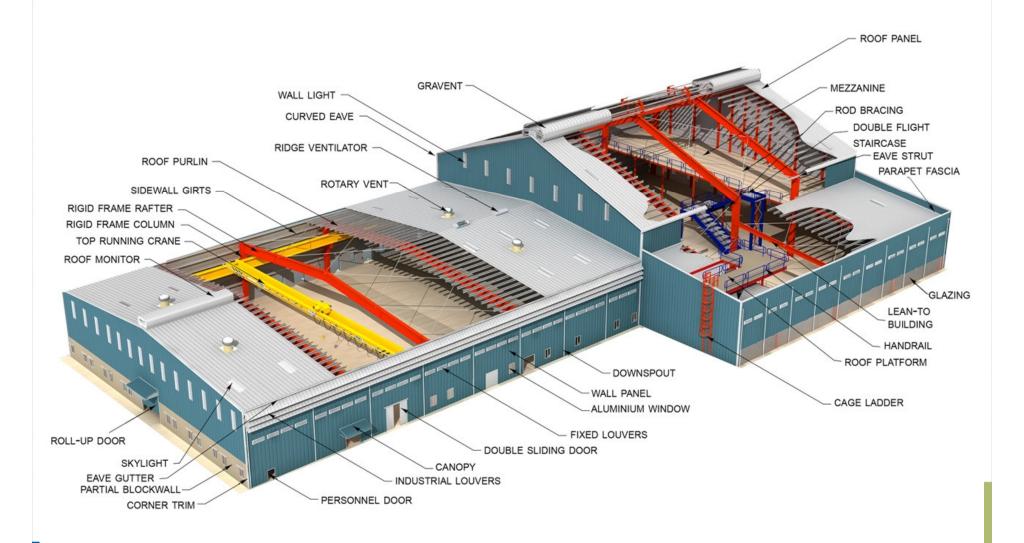




## INTRODUCTION -PRE ENGINEERED BUILDING



#### **PEB - EVOLUTION**



#### **Early 1900s**

Concept of Metal Buildings originated in U.S.A

#### 1923

American Institute of Steel Construction (AISC) was formed

#### **WORLD WAR-II**

Aircraft hangers used by U.S army were built using PEB concept

#### **POST WORLD WAR-II**

**Economic Boom** 

#### Late 1950's & Early 1960's

Computerized design became limitless

The term "Pre-Engineered Buildings" came into existence

#### **POST 1990**

PEB dominated the low rise non residential buildings market.

Automatic production lines for primary, secondary & sheeting

#### **PEB - INDIA**



- ❖ PEB entered Indian markets in the late 1990's
- \* FDI inflow accelerated PEB acceptance and usage in early 2000's
- The current pre-engineered steel buildings market size is 0.75 million MT per annum.
- Currently the industry is growing at the rate of 12 to 15 % per year
- Revolution in eco-friendly Green Building concept

## **ADVANTAGES**



- 1. Ability to span long distance
- 2. Faster occupancy
- 3. Cost efficiency
- 4. Flexibility of expansion
- 5. Low maintenance
- 6. Earthquake & Hurricane resistant
- 7. Single-source responsibility
- 8. Factory controlled Quality



### **PENNAR GROUP**



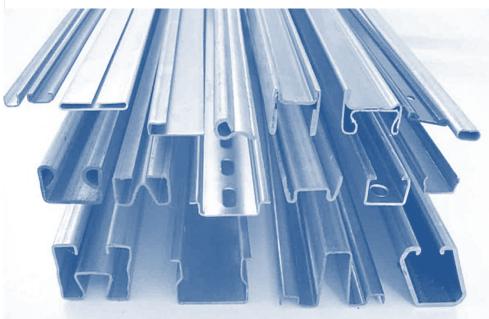


- Strong presence in Automotive, Infrastructure, Railways and Environmental sector
- Seven manufacturing facilities in India
- Largest Cold Formed steel profile manufacturer in India
- Operation history of over 35 years
- Sales Support and Marketing with 35 branches across India

## **PENNAR INDUSTRIES LIMITED**



## **Products**





Cold Roll Steel Strips and Tubes
Profiles for Automobiles
Road Safety Barriers
Railway Coach Components
Engineering and Auto Components
Building Components
Pollution Control Equipment

#### INTRODUCTION TO PEBS PENNAR



- A subsidiary of Pennar Industries Ltd., Hyderabad
- Incorporated in 2008 & commercial production in Jan 2010
- Involved in design, fabrication, supply & erection of:
  - Pre-engineered steel buildings
  - Solar structures
  - Cold formed buildings
  - Hi-rise buildings & structural steel
  - Industrial racking system
  - Transmission & Communication Towers
- Engineering Center & Manufacturing Plant at Hyderabad



### TECHNICAL ASSOCIATION







PEBS Pennar has Technical Association with NCI Group, USA for Double Lok® Standing Seam Roofing System, proven weather tight technology since 60 years in USA



## **MANUFACTURING FACILITY**

















State-of-the-art manufacturing facility with a production capacity of 90,000 MT per annum

#### **ENGINEERING CODES & SOFTWARE**



#### **SOFTWARE**

- Metal building Software MBS, USA
- ❖ Staad Pro V8i US Code and IS Code Bentley corporation, USA
- Auto CAD Autodesk Inc. USA
- Estimation Software In-house developed
- 3D Max Studio Autodesk Inc., USA
- X-Steel (Tekla structure) Trimble , Finland

#### CODES

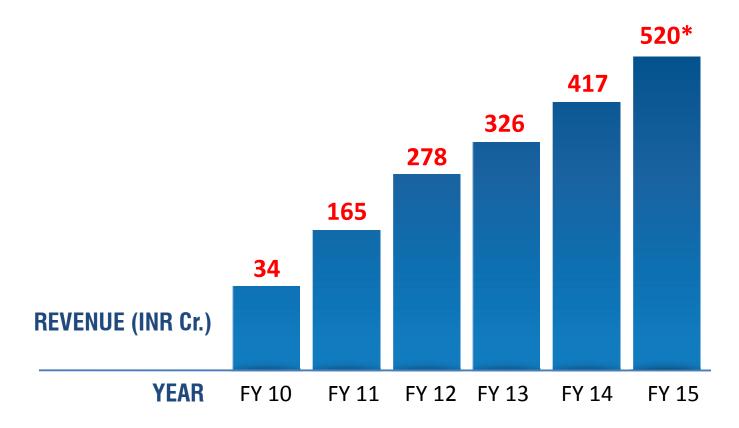
- American
- Euro
- British
- Indian



## THE GROWTH STORY



#### **Annual Turnover from FY10 to FY14**



\*Projected revenue for FY-2015

Procured orders worth over Rs. 2,200 Cr. from the date of inception

#### **AWARDS**





Hyderabad Management Association (HMA) Awards -2013



Infrastructure Company of the Year PEB Contractor of the Year



Excellence in Corporate Governance -2014



Industry Excellence Award 2013
Industry Excellence Award 2014



**INSDAG National Award 2014** 





Vishwakarma Award 2015





# STRUCTURAL STEEL SOLUTIONS

## STRUCTURAL STEEL



**Structural Steel Products Include:** 

Steel Hot-Rolled Sections

Structural Built Up Sections

Sections Cold Formed Sections

## STRUCTURAL STEEL APPLICATIONS



- Support Structures
- Boiler Structures
- Pre-engineered Buildings
- Solar Structures

- Heavy Fabrication
- Pipe Rack Structures for Oil & Gas
- Communication & Transmission Towers















# Steel Structures for Multistoried Buildings

FASTER CONSTRUCTION ... EARLY OCCUPATION...





## Sequence of Installation and time lines

For a Multi Story building of 10 floors + 4 floors basement and

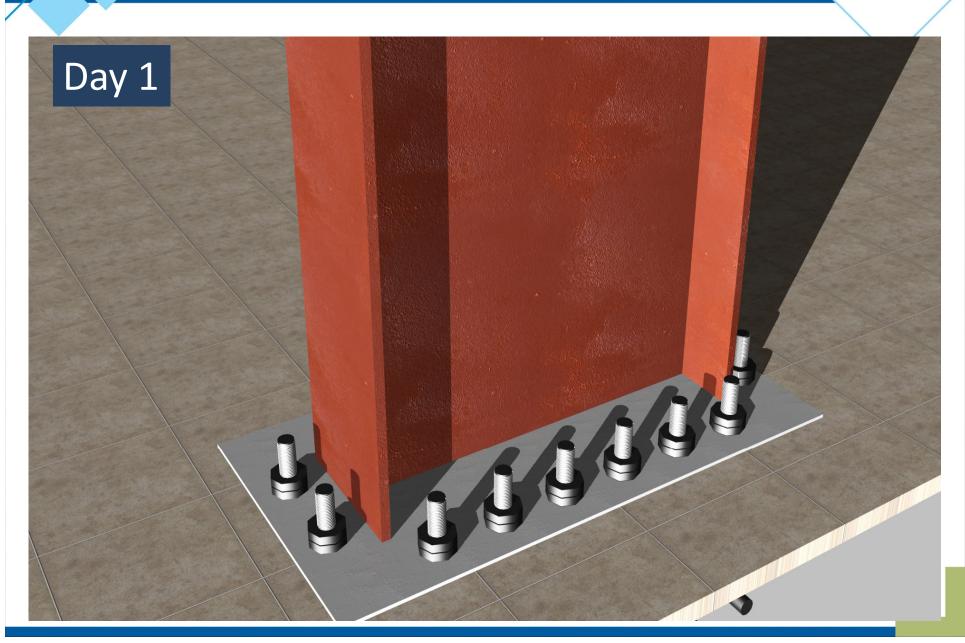
an area 12Lac sft



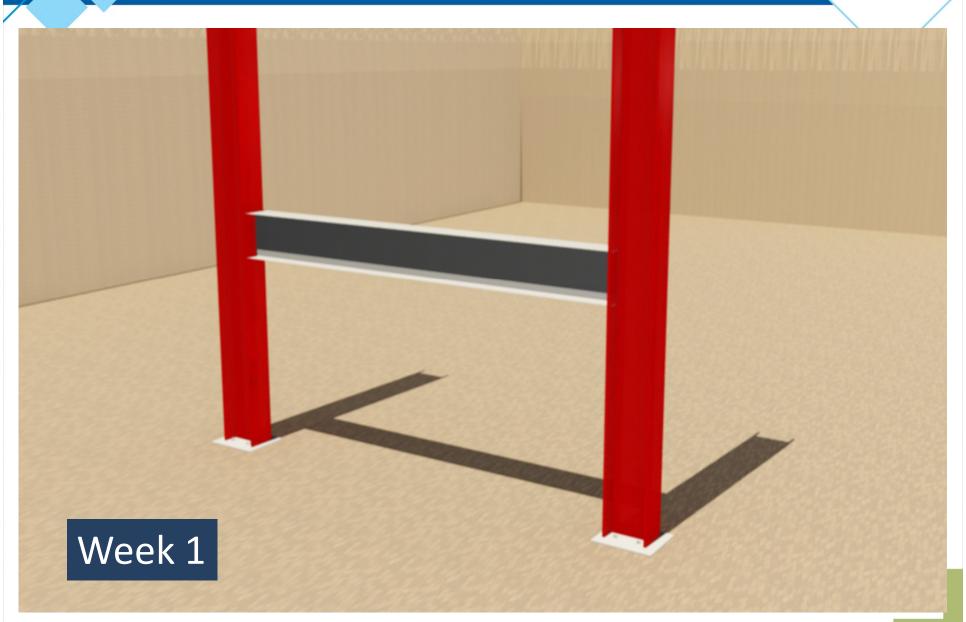


## **ANCHOR BOLT CASTING**









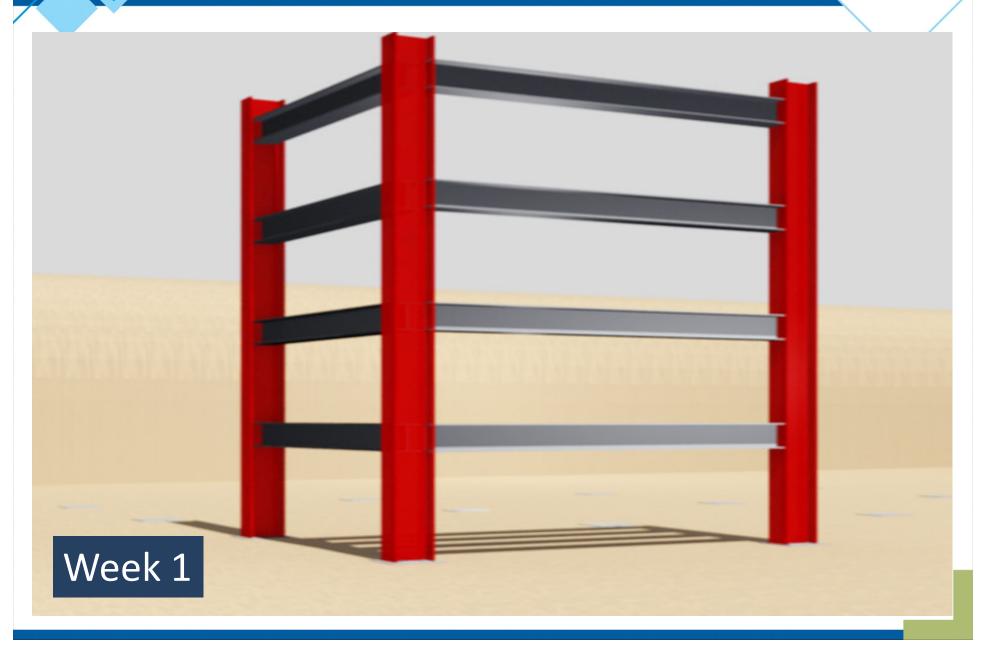




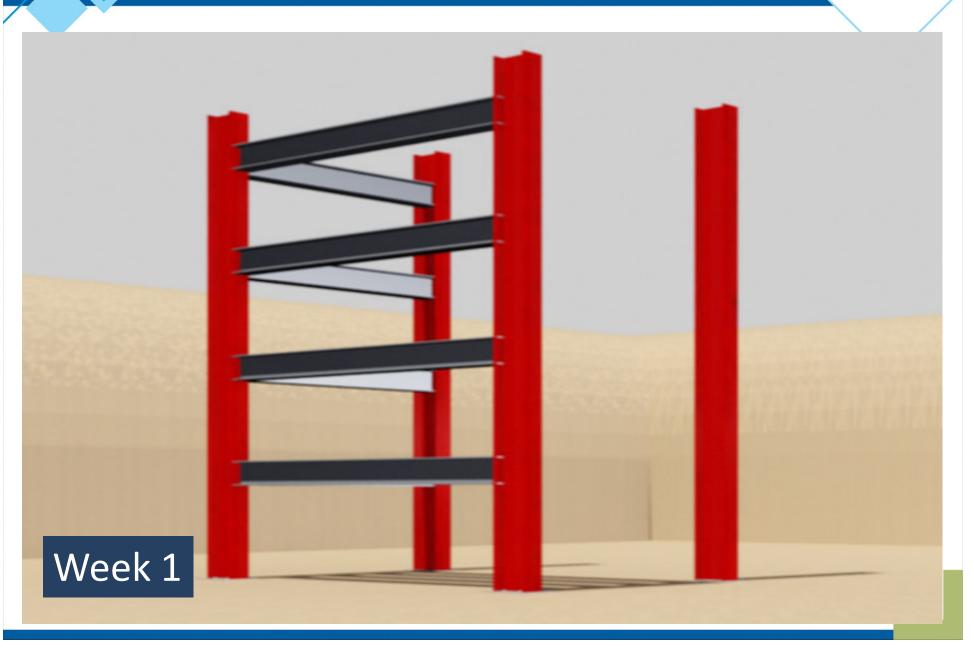




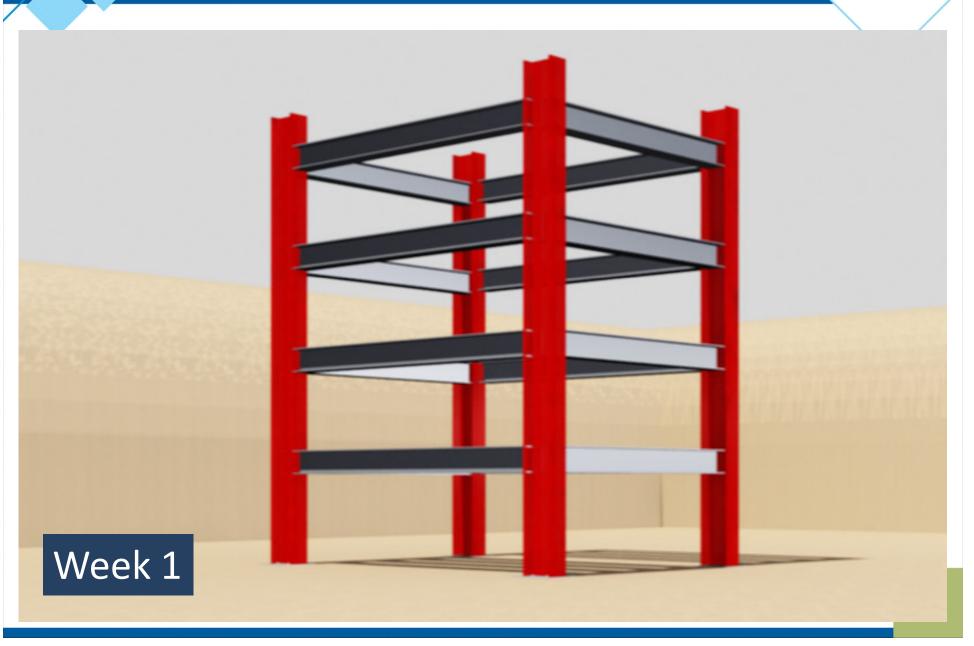




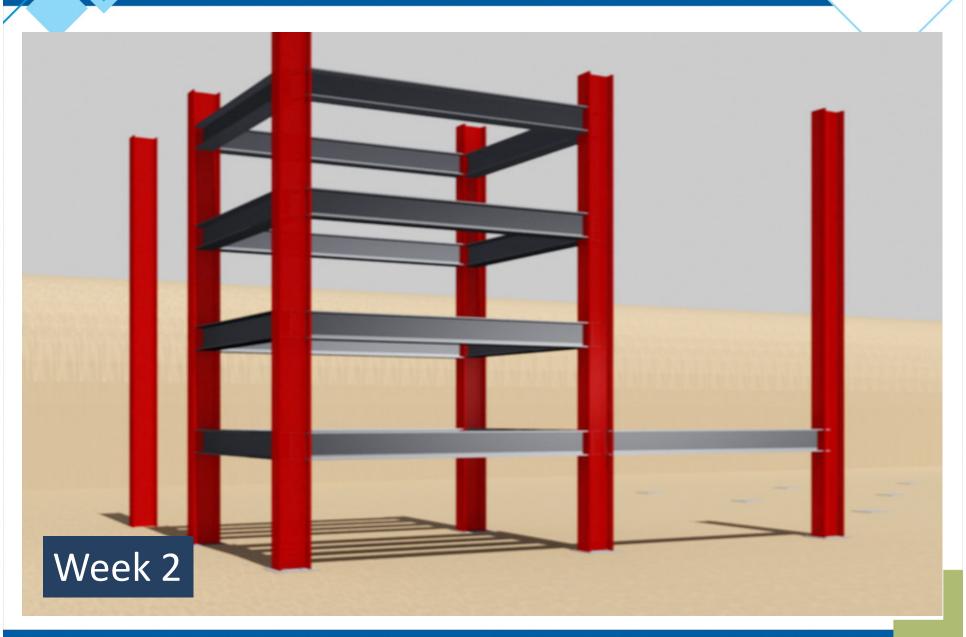




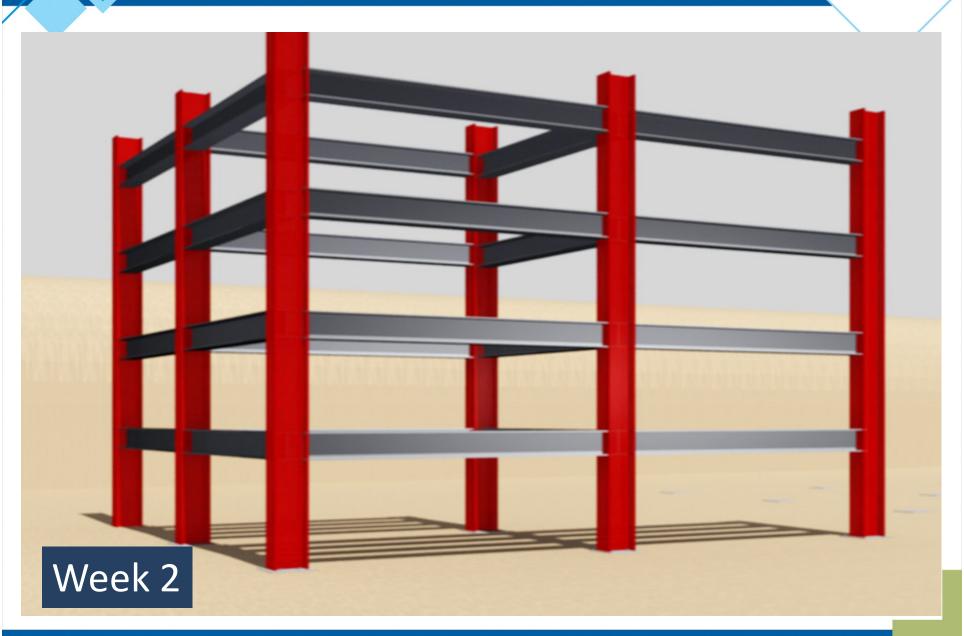




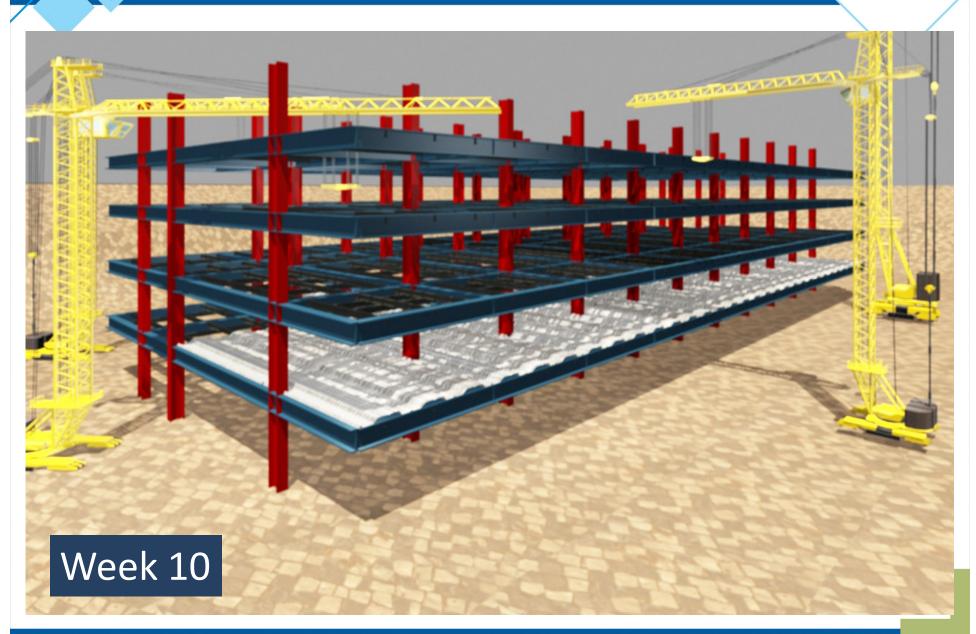




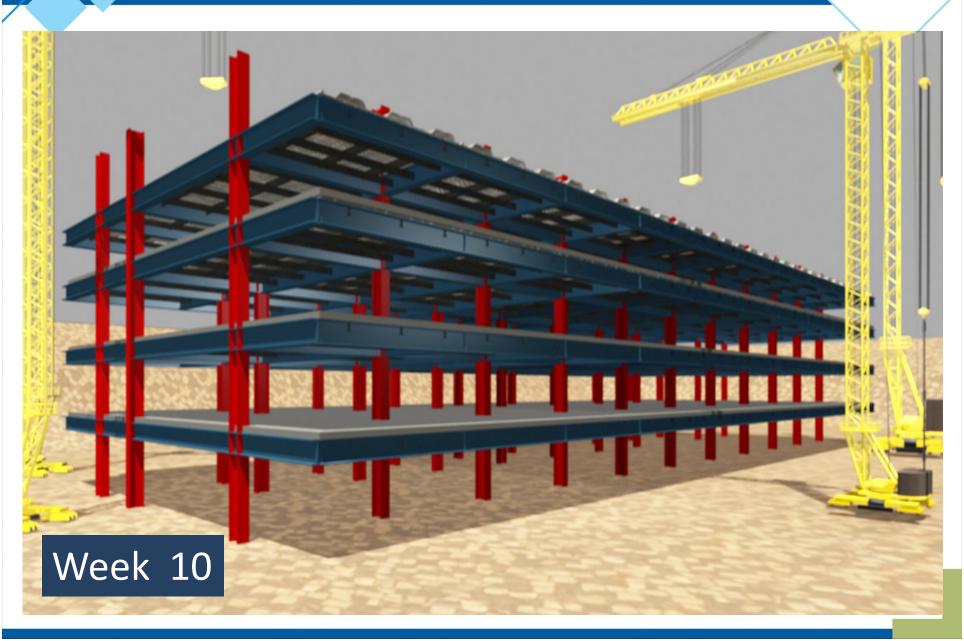




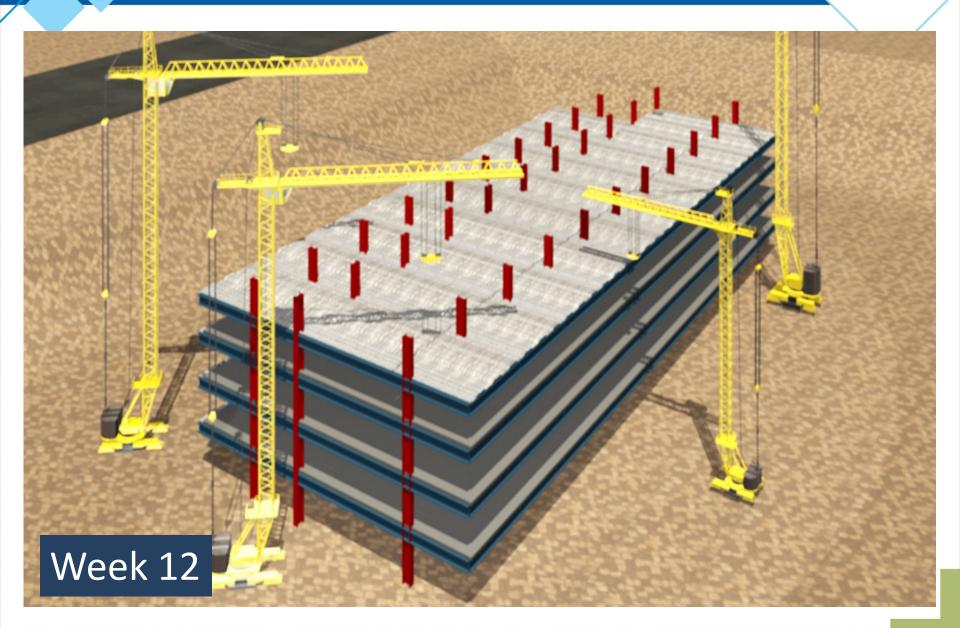




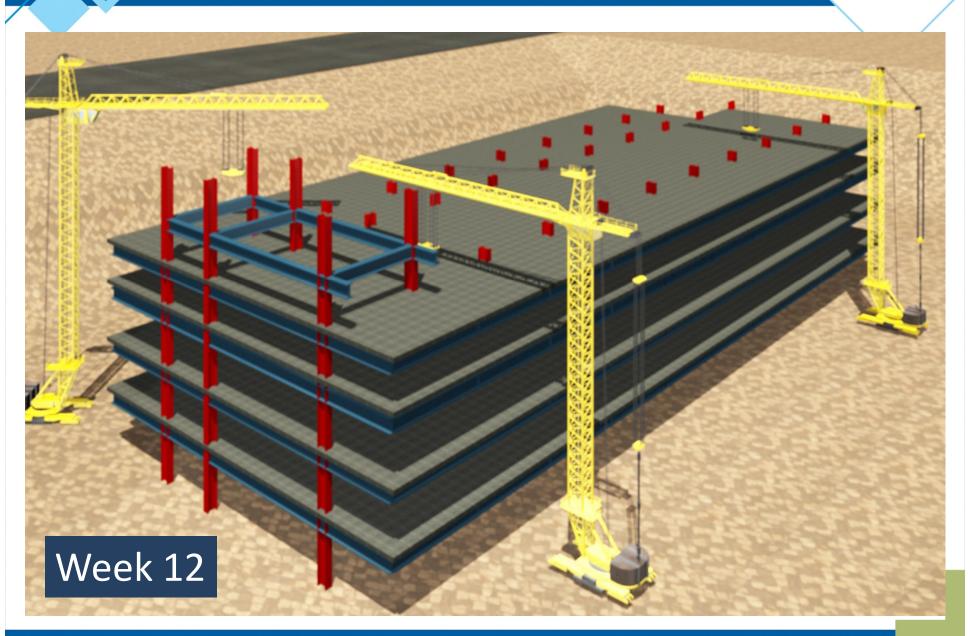




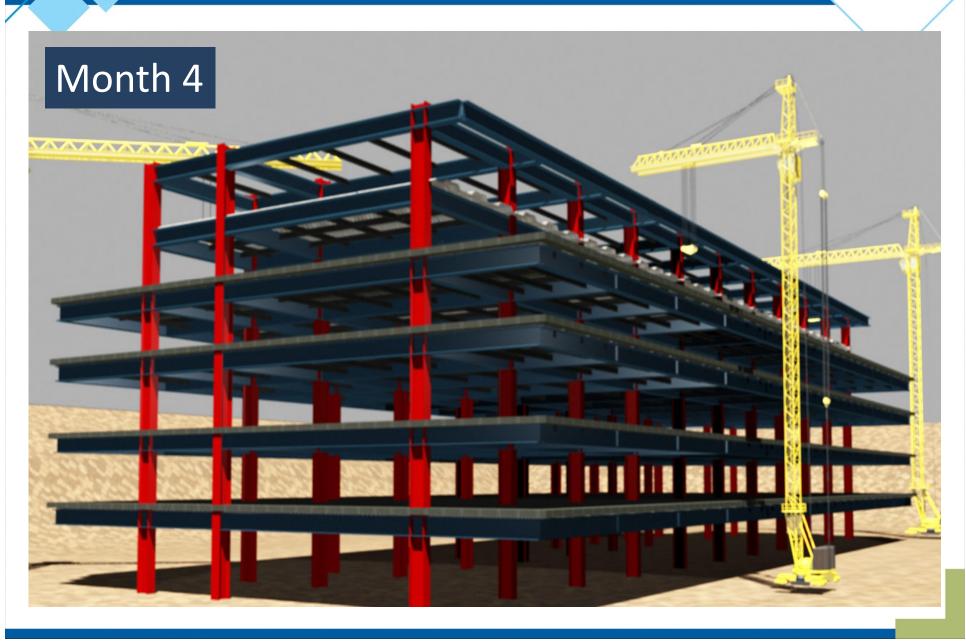




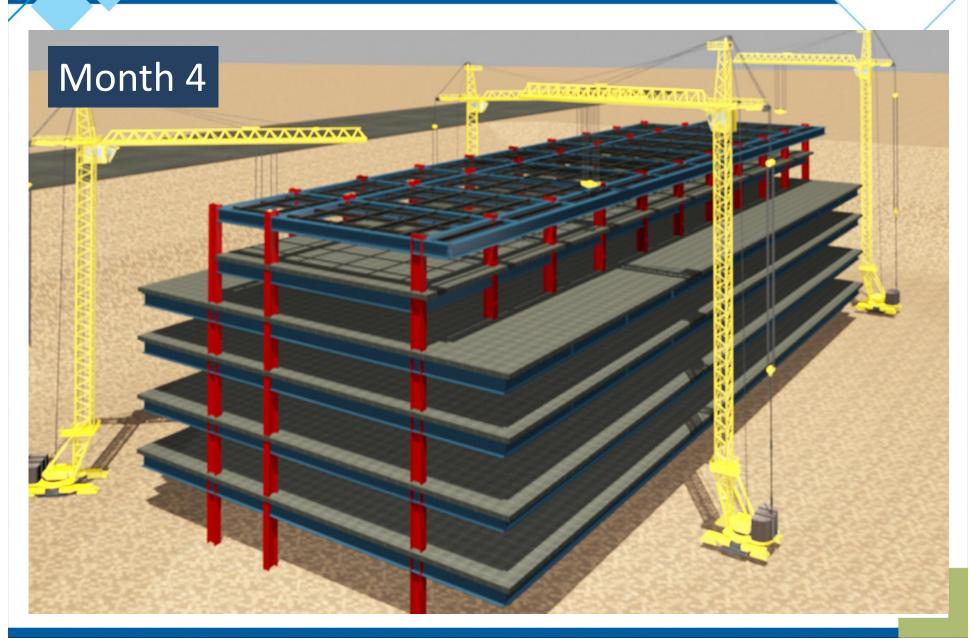








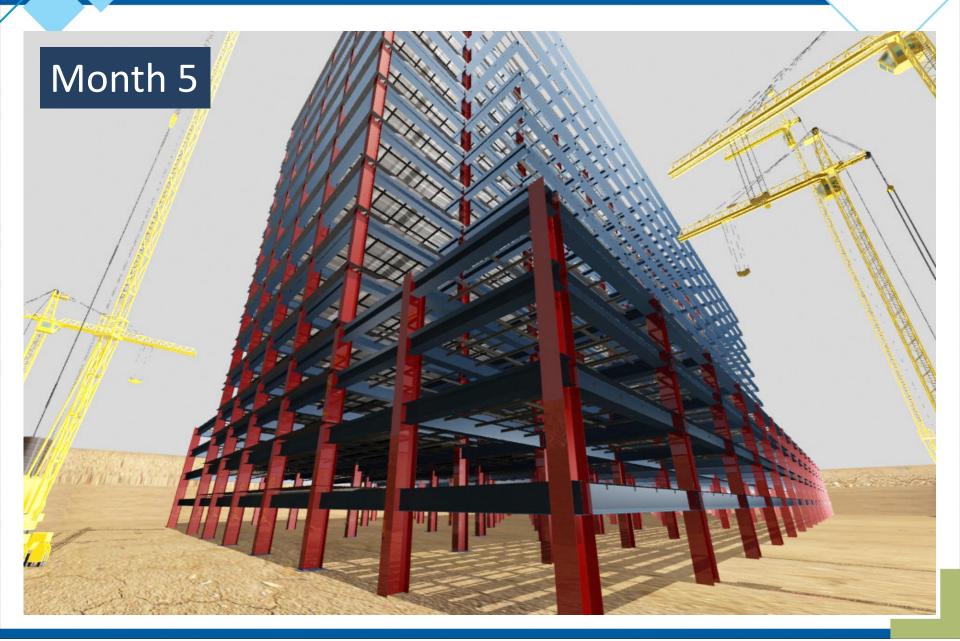












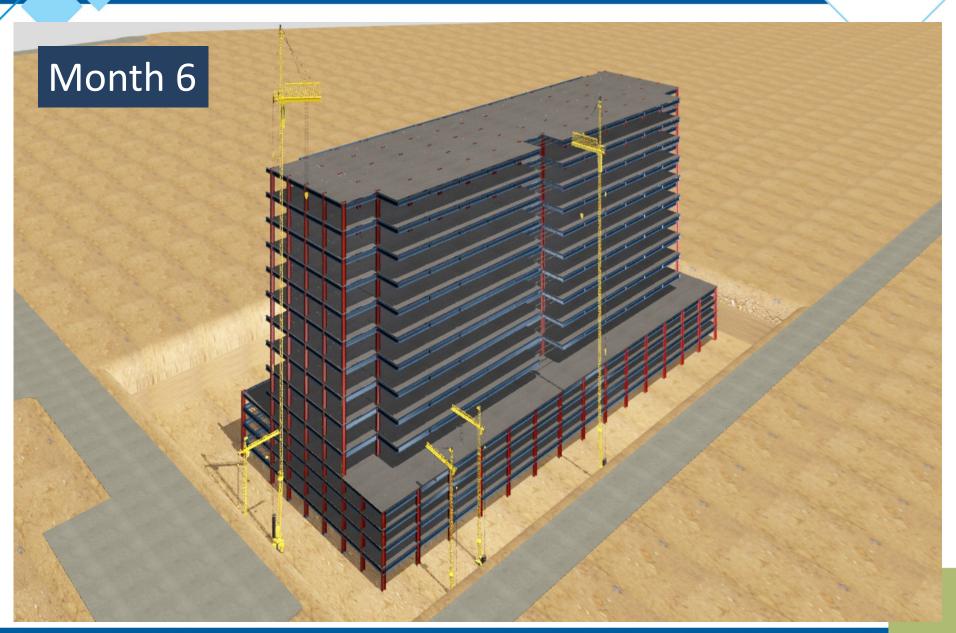


















# LANDMARK PROJECTS

# Jayabheri Orange County, Multi-storied building G + 10, Hyderabad





#### GMI Projects (Platina), Hyderabad









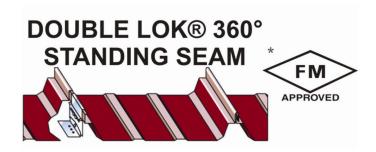
# Bharat Biotech, Multi-storey G+7, R&D center, Hyderabad











85,000sft

#### Dr. Reddy's Laboratories Limited, Baddi, HP





# Lu Lu Mall – Multi Level Car parking (Sobha Developers), Kochi







### Gland Pharma, Hyderabad – G+3 Lab building





#### Residential Project, Hyderabad – G+8





#### Visweswara Rao(team Constructions), Vijayawada – Convention Center







#### Quest SEZ Ltd - Research Center for Rolls Royce, Belgaum





## OTHER PEB SOLUTIONS







# PROJECT PHOTOGRAPHS

#### PROJECT PHOTOGRAPHS



IOT Infrastructure & Energy Services Ltd. building for ONGC OPAL, the length of the building is approx. 1 km, Gujarat



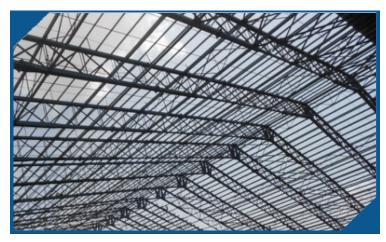




# Stacker Reclaimer Building for UltraTech Cement Ltd., at Kotputhli









#### Reliance Retail – National Distribution Center, Pune









### Tata Steel Processing & Distribution Ltd., Chennai







#### Schneider Electric, Bengaluru





#### Mandana Industries, Tarapur, Pune









Area: 36,500 sqm





#### Schindler India, near Pune







#### UltraTech Cement Limited, Hirmi, Chhattisgarh









#### My Home Industries, 700m long building, Visakhapatnam





#### Safexpress – Indore







### UltraTech Cement Limited, Ginigera, Karnataka





### E-Polymer Inside View –Hyderabad





### LNV Technologies Limited , Trichy





#### 4G Towers for Reliance Jio Infocomm









### **OUR ELITE CUSTOMERS/END USERS**































































#### **PEBS PENNAR PLANT**



#### INDIA'S 1ST IGBC GOLD RATED GREEN FACTORY













# **THANK YOU**

