Pre-Engineered Building Solutions

Design | Manufacture | EPC Execution

BALAJI
HITECH PVT. LTD.

Building Smarter. Building Faster.

AN ISO 9001:2015; 14001:2015; 45001:2018 CERTIFIED COMPANY

THE BALAJI GROUP - A SNAPSHOT

At Balaji, trust is built through action. Our ability to complete projects ahead of time reflects our commitment in practice, not just in words.

- 18+ years' experience
- 150+ successfully delivered projects
- 5,000,000 ft^2 of PEB area delivered
- 80+ satisfied clients
- Across 10 States and Union Territories
- Integrated manufacturing and site execution

- On-time, predictable delivery
- Client-centric approach
- Engineering-led design excellence
- integrated epc capability
- Quality & safety focus
- Proven execution experience

- ISO 9001:2015 I 14001:2015 45001:2018 certified
- In-house testing: NDT (UT, DPT, RT), hydro & pneumatic testing
- 35 engineers & 250+ skilled manpower

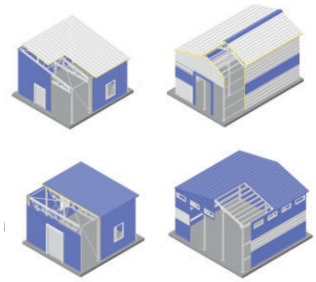
- 4,500 MT annual steel processing capacity
- 145,000 ft^2 workshop, including 42,000 ft^2 covered area
- CNC plasma and CNC laser cutting machines
- Automatic 'H' beam production line
- 3x15 MT EOT cranes
- Dedicated stockyard for raw material & finished goods
- 500 kVA power connection with backup

Quality
Environment
OH&S
IMS
INTEGRATED MANAGEMENT SYSTEM

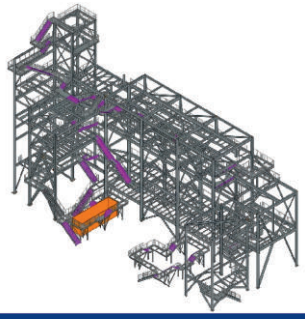
WHO WE ARE

Established in 2008, The Balaji Group is a leading manufacturer and integrated solutions provider across 5 core verticals: Pre-Engineered Buildings (PEB), Process Plant Equipment Manufacturing, Technological General Steel Structures, Agro-Machinery, and Site Services including Erection, Installation, and Commissioning. Backed by over 18 years of industrial experience, we operate with a strong commitment to quality, safety, and on-time execution.

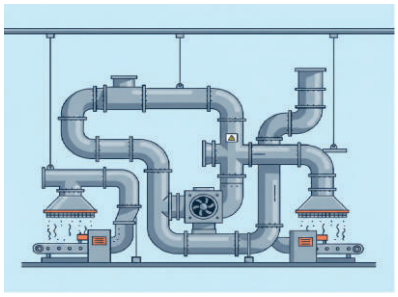
WHAT WE DO



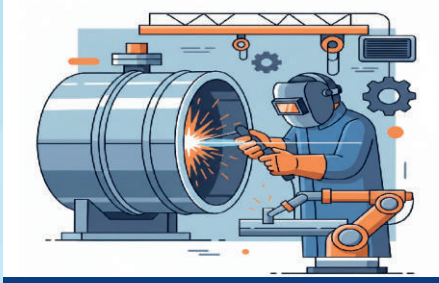
Pre-Engineered Buildings



Technological & Industrial Structure



Stainless Steel & Mild Steel Ducting Systems



Process Equipment

Agro Machinery

Erection, Commissioning Trials & Dismantling

Our Commitment

We believe in teamwork, on-time execution, & delivering high-quality products and services - **Every Time**

MANUFACTURING FACILITIES

Laser Cutting Machine up to 40mm

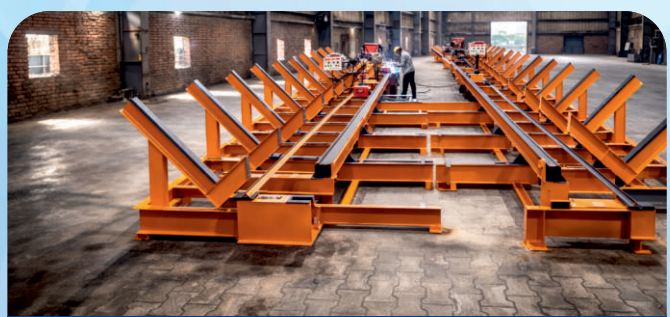
Laser Cutting Machine up to 20mm

PTW 'H' Beam Production Line

'H' Beam Straightening Machine

CNC Plasma Cutting Machine
Up to 30 mm with Plasma & 150 mm with Oxyfuel

CNC Plasma Cutting Machine
Up to 16 mm with Plasma & 100 mm with Oxyfuel



SAW Machine

Radial Drill Machine Up to 100mm

MANUFACTURING FACILITIES

Iron Worker

Power Press

Multi Functional Hydraulic Press

Chaser Up to 65mm

Bar Bending Machine Up to 65mm

Automatic Beveling Machine

Shot Blasting

Spray Painting

Core Values

As a fully integrated Pre-Engineered Building (PEB) EPC partner, we design, manufacture, and build steel structures that meet demanding timelines and real-world conditions.

Vision

- To be a globally trusted pre-engineered steel building and engineering solutions partner, recognized for technical excellence, execution reliability, and sustainable industrial infrastructure.

Mission

- To deliver end-to-end PEB and steel solutions integrating engineering, manufacturing, and site execution.
- To ensure certainty in quality, safety, cost, and timelines for clients and EPC partners.
- To continuously enhance capabilities through technology, automation, and skilled manpower.
- To create long-term value through teamwork, innovation, and uncompromising quality standards

Strengths

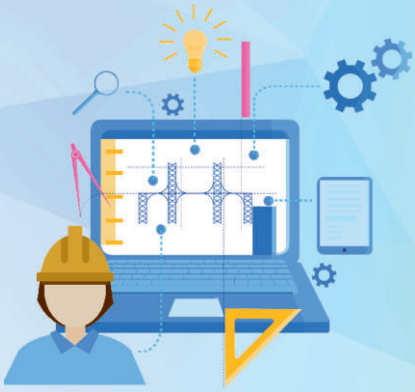
- Integrated EPC Capability
- Strong Manufacturing Infrastructure
- Engineering-Led Approach
- Execution Excellence
- Quality & Compliance
- Experienced Team
- Client-Centric Delivery

THE PEB SOLUTION

Balaji's Pre-Engineered Steel Buildings are factory-fabricated structural systems comprising primary framing members, secondary members, and high-performance roof and wall cladding. Each building is custom-engineered to meet project-specific loads, spans, and functional requirements, ensuring optimal steel utilization and structural efficiency. The system allows seamless integration of mezzanine floors, crane beams, canopies, facias, and service platforms, with provisions for future expansion. Designed for rapid erection and durability, Balaji PEBs deliver consistent quality, reduced construction time, and low lifecycle maintenance across industrial and commercial applications.

ENGINEERING-LED DESIGN OPTIMIZATION

Balaji transforms conventional steel building concepts into efficient pre-engineered systems through advanced structural optimization, without compromising functionality or performance. Our fully digitized engineering process uses specialized analysis software (viz. STAAD Pro, Tekla, FastCam, FastNest, AutoCAD) and in-house design tools to achieve accuracy and consistency. Each project is supported by detailed calculations and clear design documentation, enabling easy review and validation by consultants. The result is an optimized PEB solution delivering material efficiency, faster execution, and dependable structural performance.



Applicable International Design Codes & Standards

Balaji's Pre-Engineered Steel Buildings can be engineered in compliance with the following Indian or Internationally recognized codes and standards, as specified by project requirements:

- **Steel Design & PEB Standards:**
  IS 800:2007, IS 806, IS 816, AISC; MBMA; AWS
- **Loading & Structural Actions:**
  IS 875 (Part 1 – 5); ASCE 7; IBC
- **Seismic Design:**
  IS 1893 (Part 1), IS 13920, ASCE 7; UBC
- **Wind Design:**
  IS 875 (Part 3); ASCE 7
- **Cold-Formed Steel** (Secondary Members):
  IS 801; AISI

MBMA METAL BUILDING MANUFACTURERS ASSOCIATION®

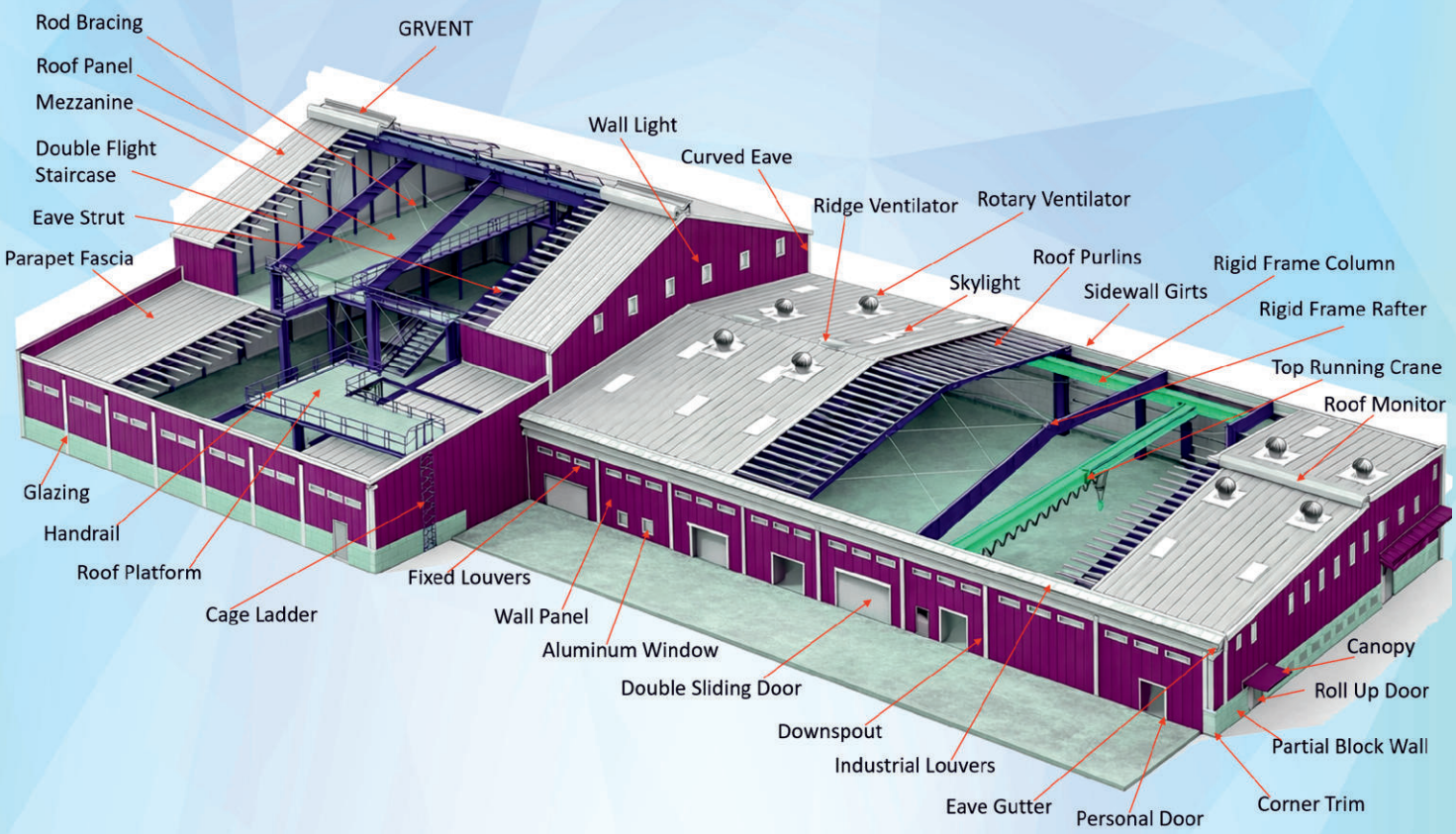
AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC. AISC FOUNDED 1921

AWS American Welding Society

मानक: पथप्रदर्शक: Bureau of Indian Standards

INDUSTRIES WE SERVE

TECHNICAL SPECIFICATIONS AND DESIGN PARAMETERS



Structural Components & Framing

- Rigid Frame Rafter
- Rigid Frame Column
- Mezzanine
- Roof Purlins
- Sidewall Girts
- Eave Strut
- Rod Bracing
- Top Running Crane

Roofing & Ventilation

- Roof Panel
- Ridge Ventilator
- Rotary Ventilator
- GRVENT
- Roof Monitor
- Skylight
- Curved Eave
- Eave Gutter
- Downspout

Wall & Exterior Elements

- Wall Panel
- Wall Light
- Parapet Fascia
- Corner Trim
- Partial Block Wall
- Canopy
- Glazing
- Fixed Louvers
- Industrial Louvers

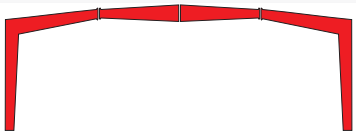
Access & Openings

- Double Sliding Door
- Roll Up Door
- Personal Door
- Aluminum Window
- Double Flight Staircase
- Cage Ladder
- Roof Platform
- Handrail

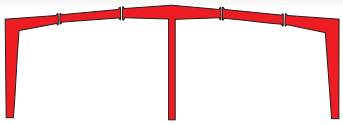
THE STRUCTURAL SYSTEM (PRIMARY FRAMING)

Pre-Engineered Steel Buildings (PEB) utilize an integrated portal frame system comprising primary members, secondary members, bracing, and roof/wall sheeting to create a stable, unified structure. Unlike conventional buildings, where columns and trusses are independently designed, resulting in heavier sections, PEB systems are optimized as a complete structural solution, making them lighter and more efficient. Various framing configurations are available to suit functional requirements, economic considerations, and architectural preferences.

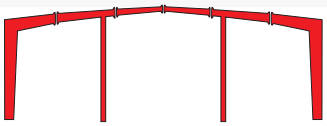
Standard framing configurations include the following:



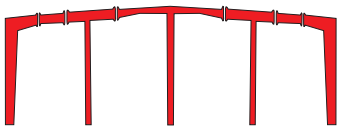
Tapered Column Clear Span
(TCCS)



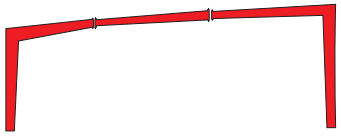
Tapered Column Multi Span 1
(TCMS-1)



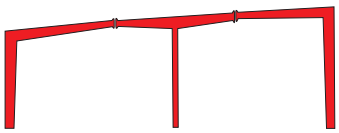
Tapered Column Multi Span 2
(TCMS-2)



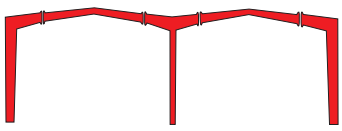
Tapered Column Multi Span 3
(TCMS-3)



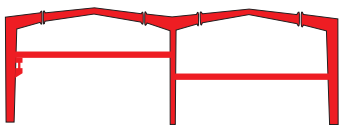
Mono Slope



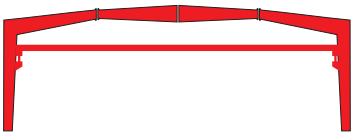
Multi Span 2
(MS-2)



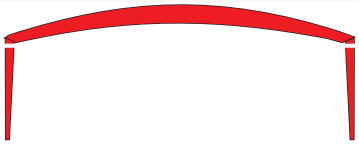
Multi Gable
(MG)



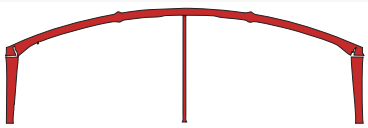
Crane Bean &
Mezzanine



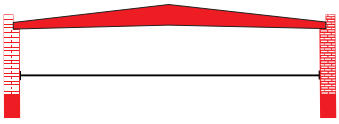
Crane Bracket &
Crane Beam



Curved Rafter

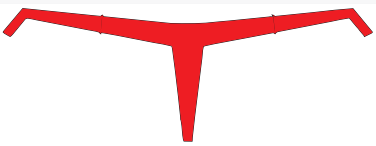


Arched Multi Span

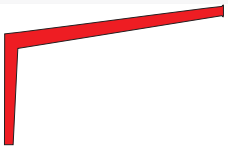


Roof System

Lean To



Butterfly Canopy



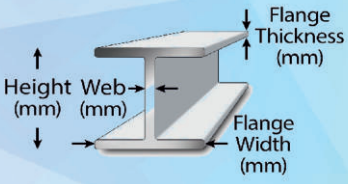
L Canopy

H BEAM

H-Beams are fabricated from high-grade structural steel plates conforming to IS 2062, ASTM A572 Grade 50, ASTM A570 Grade 50, or ASTM A572M Grade 345 Type 1 (or equivalent). The material provides a minimum yield strength of 345 MPa (34.5 kN/cm^2). All members are factory-finished with a minimum 25-micron DFT red oxide primer for corrosion protection.

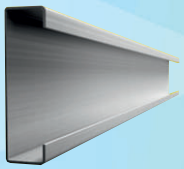
Web Height: 200 mm – 1,500 mm
Flange Width: 200 mm – 800 mm
Length: Up to 12,000 mm

Web Thickness: 6 mm – 32 mm
Plate Thickness: 6 mm – 32 mm

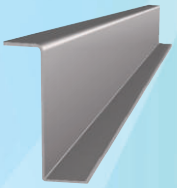


PURLINS, C-SECTIONS & GRITS

Balaji offers a complete range of structural C and Z purlins for industrial buildings, garages, verandahs, carports, and other steel-framed structures. Made from galvanized steel, CR, or HR steel, the fully integrated system supports flexible design options. Z and C purlins are available with manual and automatic control panels.

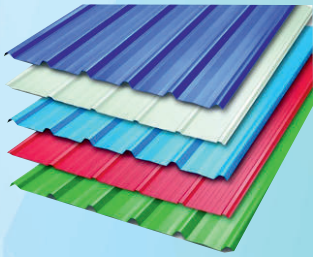


These lightweight, flexible beams enable efficient and innovative construction solutions. Balaji supplies purlins in various thicknesses with consistent depths for the same structure, ensuring cost-effective pricing. Surface treatments for cold-formed steel C and Z profiles range from galvanization to specialized coatings, compliant with IS: 4777 and IS: 2074 standards.



ROOFING & WALL SYSTEM

The roof profile is engineered for modern roofing applications. Its optimized bearing leg configuration ensures simplified installation and maintenance, accommodates enhanced insulation thickness, and enables smooth curvature for a refined architectural appearance.

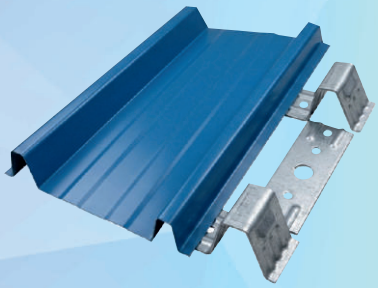


The wall panel is an economical cladding solution with a partially concealed fastener system. Its sculpted valley profile between the primary ribs enhances aesthetics, offering a refined and modern architectural appearance for exterior applications.

- Strong, Safe and Durable
- Low Maintenance
- High Strength to Weight Ratio
- Exceptional Corrosion Resistance
- Thermally Efficient

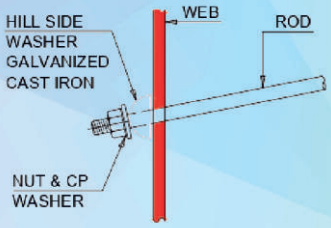
Arctic White	Desert Beige	Tile Red
Autumn Green	Cottage Green	Moorland Green
Sky Blue	Traffic Blue	Caribbean Blue

CLIP-ON SYSTEM



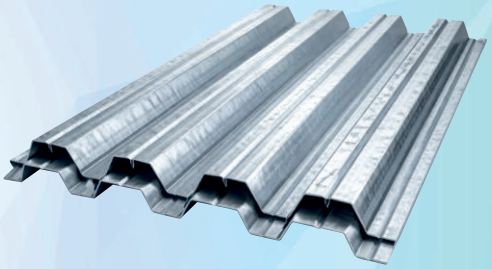
Clip-on profiles are fixed to roof purlins or wall girts using concealed clips, eliminating the need for fastening holes through the shed. As no screws penetrate the sheets, there are no visible screw heads.
Each clip is secured to the support with only two fasteners, ensuring firm and positive engagement with the ribs.

ROD BRACING



Rod bracing (also known as X-bracing) is a tension-only structural bracing system. It is installed in the roof and wall planes between structural frame members, where it transfers longitudinal forces safely down to the foundation.

DECKING SHEET



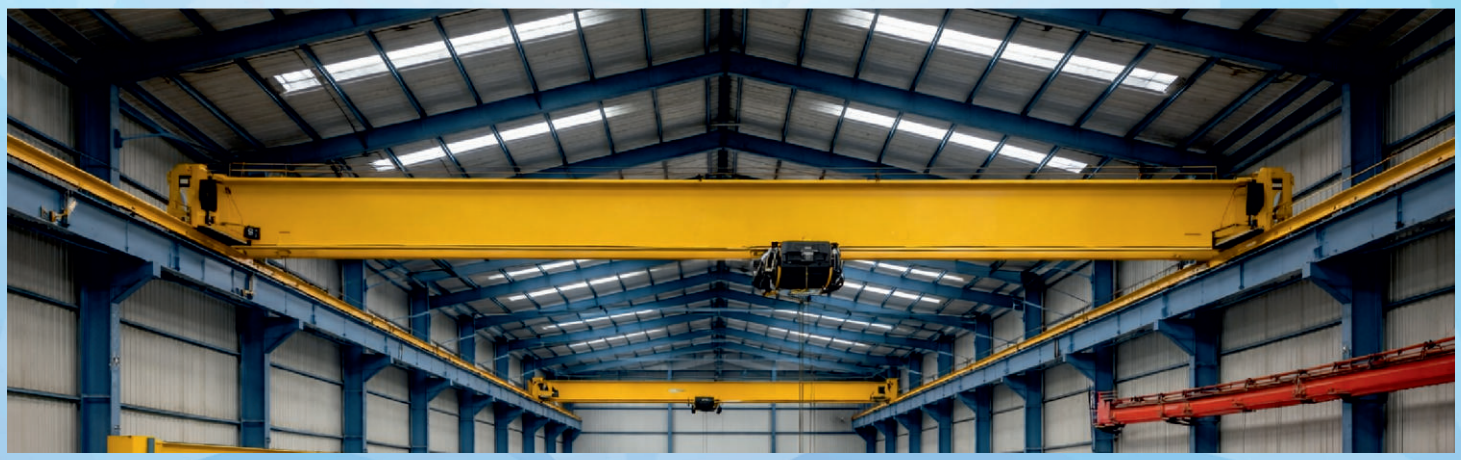
Decking Sheet is a high-strength solution for composite floor systems, providing an instant working platform for improved safety and faster construction. Its quick installation reduces project time and overall costs. It can also be used as permanent formwork, making it a versatile and economical choice. Deck is cold-formed with a 44 mm profile depth and 130 mm pitch, offering a cover width of 910 mm and an overall width of 960 mm. It is manufactured from galvanized and HR coils in thicknesses ranging from 0.80 mm to 2.50 mm.

MEZZANINE SYSTEMS

Mezzanine systems are widely used in industrial and commercial buildings such as factories, warehouses, offices, and showrooms to maximize available floor space and improve operational efficiency. Typically constructed using joist beams with purlins or secondary framing, a profiled steel deck slab is laid and concreted to form a durable floor platform.

CRANE SUPPORT SYSTEMS

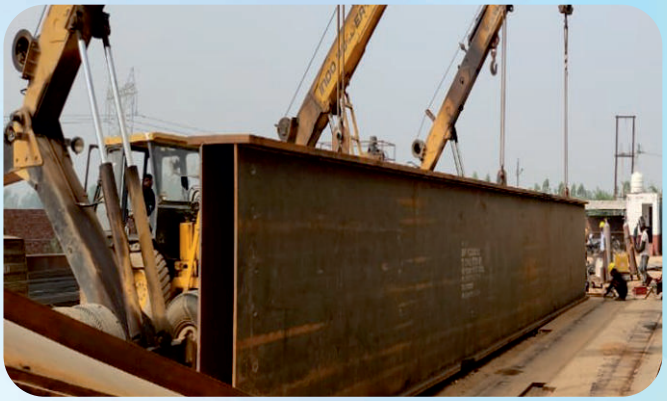
Buildings can be engineered to accommodate a wide range of crane systems. Overhead travelling cranes up to 15 MT are typically supported on brackets, while higher capacities require independent support structures. The support system includes brackets, beams, and bracings. Structures can also be designed to handle JIB cranes, monorail cranes, wall-travelling cranes, and semi-gantry cranes.

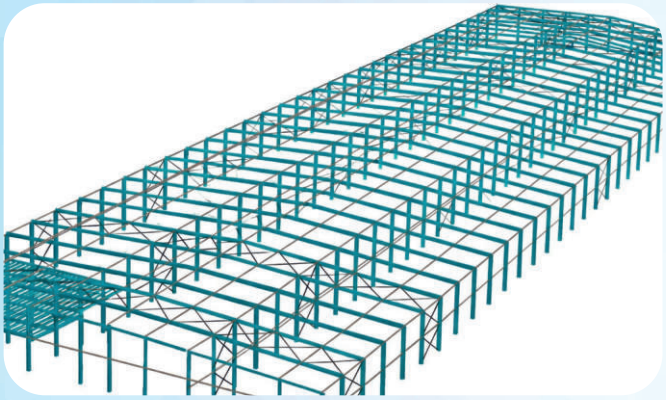


OUR ESTEEMED CLIENTS

GALLERY

GALLERY





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