

ONE STOP SOLUTION
FOR ALL YOUR
STRUCTURAL NEEDS



Pre Engineering Building | PEB Turnkey Project
Industrial Construction Work | Heavy Crane Building Solution
Multi Storey Steel Building



Empire Heavy Engineering specializes in providing complete solutions including consulting, design, fabrication and erection of high-quality pre-engineered steel building and steel structure products with help of latest technology and manufacturing facilities. Empire Heavy Engineering provides a reliable approach for fast turnkey construction primarily for non-residential buildings such as manufacturing plants, heavy industry, warehouses, high-rise building, shopping mall, exhibition centers, commercial, sports centers, offices, transportation, and aircraft hangars.

PLANT FACILITY & CAPACITY:

Production line of Empire Heavy Engineering is totally closed with highly automatic and advanced facilities, which provides superior quality and high precision of products, having 1,050 MT production capacity per month.

OUR VISION & MISSION



VISION

In Empire Heavy Engineering, client delight is the backbone of each action we take and building the forum future together, this can be possible by providing Precise Designing, Perfection in Product and Best customer services.



MISSION

Empire Heavy Engineering is committed to providing high-quality steel products and services that meet our customers' expectations to bring prosperity and sustainable development for Customers & Employees.



WHY EMPIRE HEAVY ENGINEERING ?

Advantages of Choosing
Empire Heavy Engineering for your project



ADVANTAGES OF USING PEB

► Cost-Effective

PEBs are generally more affordable than traditional construction methods due to faster construction times and reduced labor costs.

► Faster Construction

PEBs are prefabricated off-site, allowing for quicker assembly and reduced construction timelines.

► Durability & Strength

PEBs are built to be robust and resilient, ensuring they stand the test of time with minimal maintenance.

► Energy Efficiency

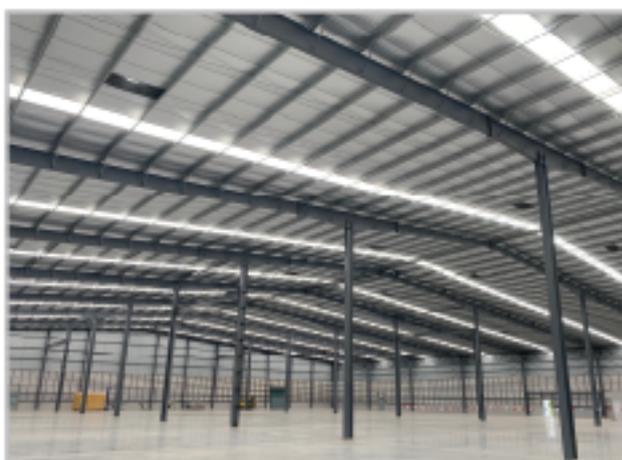
PEBs can be designed with energy-efficient materials, providing better insulation and reducing energy consumption.



Turnkey Project Solution

Empire heavy engineering is one of the **best company in India** to offer **turnkey project solution** for **steel structure building** on a single value liability basis.

Our turnkey solution scope of work includes all activities beginning with land mapping and survey upto complete interiors of office building and land scaping. This enables the customer to off-load the entire responsibility of completing the factory, office, utilities to empire heavy engineering for completion in a time bound manner



TURNKEY PROJECT SCOPE & SERVICES

Land Mapping & Survey: Conduct comprehensive land surveys to ensure accurate mapping and site analysis for construction projects.

Plot Leveling and Excavation: Perform essential plot leveling and excavation to prepare the site for construction activities.

Utilities and Structures: Install essential utilities such as toilets, bathrooms & pantries, along with the design and erection of pre-engineered steel structures and roofing solutions.

Internal Road Work: Design and construct internal roadways to facilitate access and movement within the project site.

RCC & Civil Construction: Execute RCC and civil construction, including the development of office spaces & utility areas.

EMPIRE HEAVY ENGINEERING TURNKEY SOLUTIONS BENEFITS

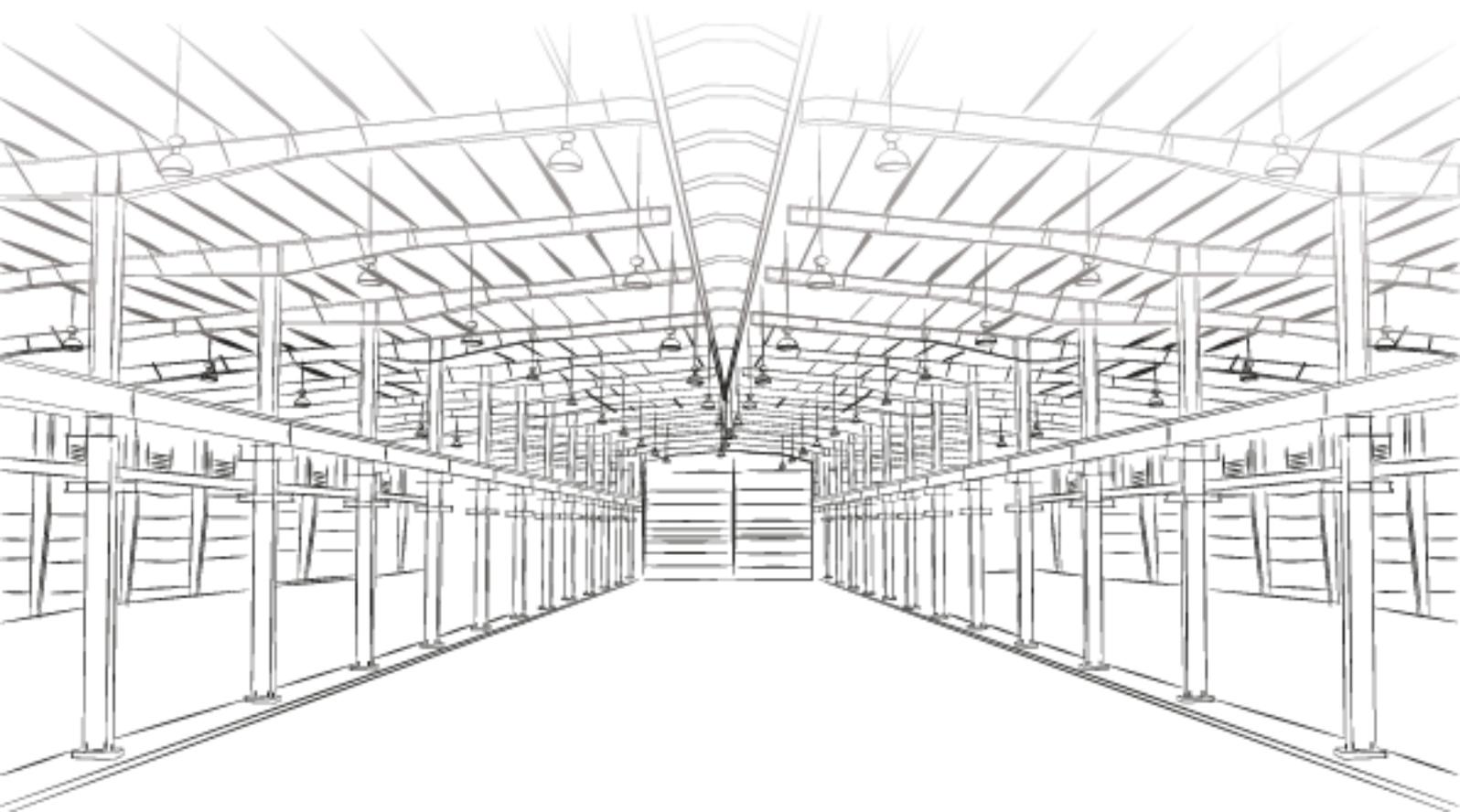
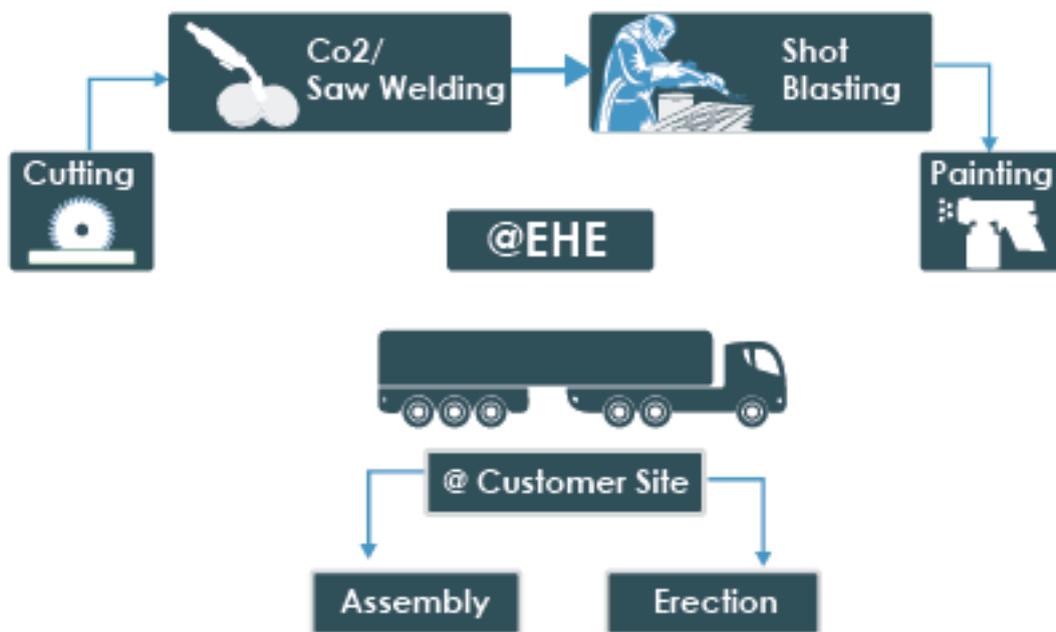
- ▶ Lower cost
- ▶ Large clear span
- ▶ Expansion flexibility
- ▶ Quality control
- ▶ Low maintenance

WHAT SET US APART

- ▶ Aesthetic Profile
- ▶ Optimum clear space
- ▶ Easy adaptation of the building in case of modification or change of building use
- ▶ Fast and easy erection

Manufacturing process starts with cutting and welding appropriate sections and plates as per requirements. These sections are then passed through sand blasting booth. Material is exposed to accelerated metal granules which removes rust, dirt from material surface.

Micro craters are created on the surface which helps in neat application of paint. Sections are then passed through closed paint booth. With only filtered air coming in, contamination free painting is done. Use of special Anti-Corrosive paints give building long lasting shine and enhances its life.





IDENTIFYING CUSTOMERS NEED

Develop possible solutions promising one



PROVIDING QUOTATION WITH PROMISING SOLUTIONS

EHE offers best proposal with Promising solution to all kinds of PEB structure



FINALIZING DEAL & RECEIVING PURCHASE ORDER

EHE's experience Design, Fabrication & Erection team Start planning to Complete project in optimum time



GETTING APPROVAL OF GENERAL ARRANGEMENT DRAWING FROM CUSTOMERS

After approval of GA drawing detail Design drawing & erection drawing will be prepared.



FABRICATION & SUPPLY OF STRUCTURAL MATERIAL

Fabrication work is performed using our CNC cutting, welding, fitting, and finishing processes, followed by painting. Once completed, the materials are dispatched to the client's site.



ERECTION PROCESS

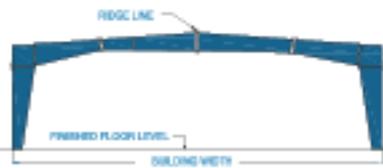
All material assembly and erection will be completed safely, ensuring the entire erection process is finished successfully.



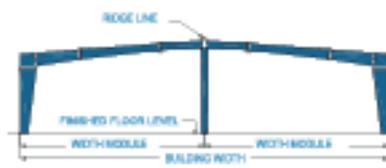
WORK COMPLETION CERTIFICATE FROM CUSTOMER

A project completion certificate is issued when a project is completed in its entirety with fully satisfaction from customer

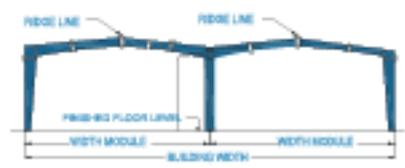
CLEAN SPAN (CS)



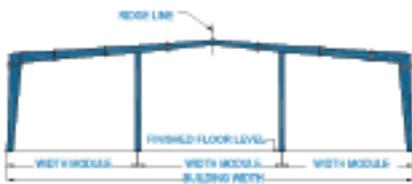
MULTI SPAN "1" (MS-1)



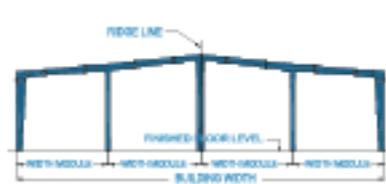
MULTI SPAN "2" (MS-2)



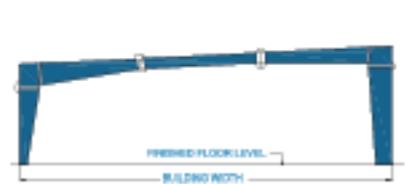
MULTI GABLE



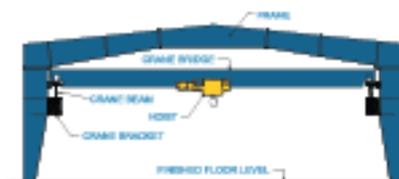
MULTI SPAN "3" (MS-3)



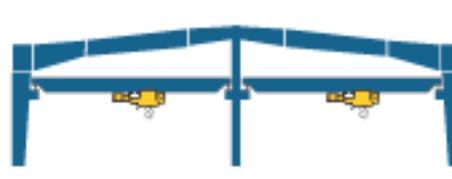
SINGLE SLOPE (SS)



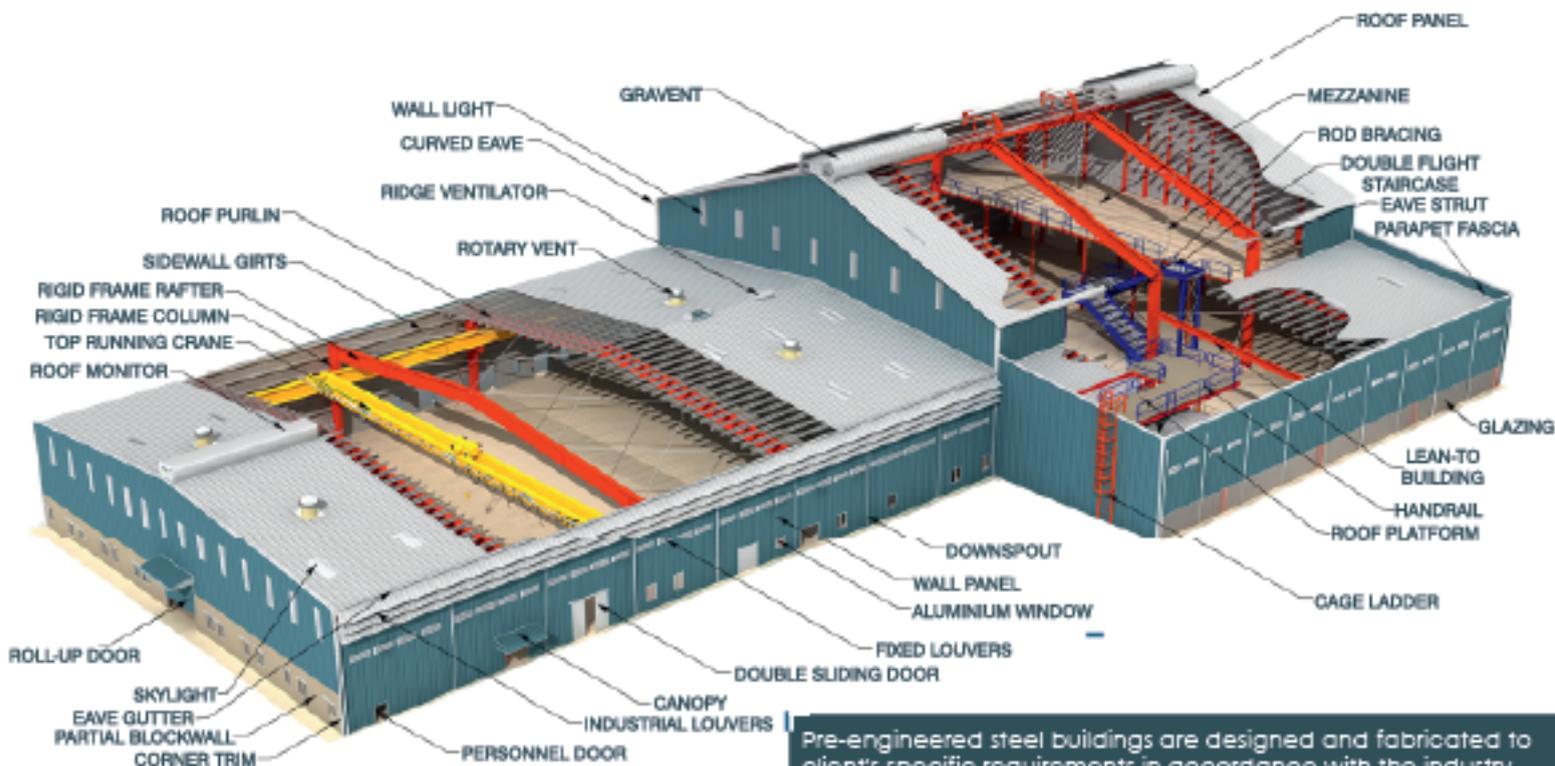
TOP RUNNING CRANE



TOP RUNNING CRANE (MS)



Y-CANOPY



Pre-engineered steel buildings are designed and fabricated in accordance with client's specific requirements in accordance with the industry relevant standards. A Pre-engineered steel building consists of four major groups of components viz. primary members, secondary members, metal roofing/wall cladding and connection fasteners. These components work compatibly together to produce the most optimal and economic design. The fabrication / roll-forming of these components are carried out in our factory under strict quality control. These are assembled and erected at site to give an aesthetically pleasing building.

STRUCTURAL PURLINS

C, Z, Purlins are manufactured on automatic high-end machines separately that are imported. The machine is run by individual gear box systems with 22 stages. This ensures that the desired shape and strength are near to perfect. The required web, flange and lip sizes are acquired by CNC operation and holes are punched automatically by PLC control.

Z PURLIN



45° Lip

C PURLIN

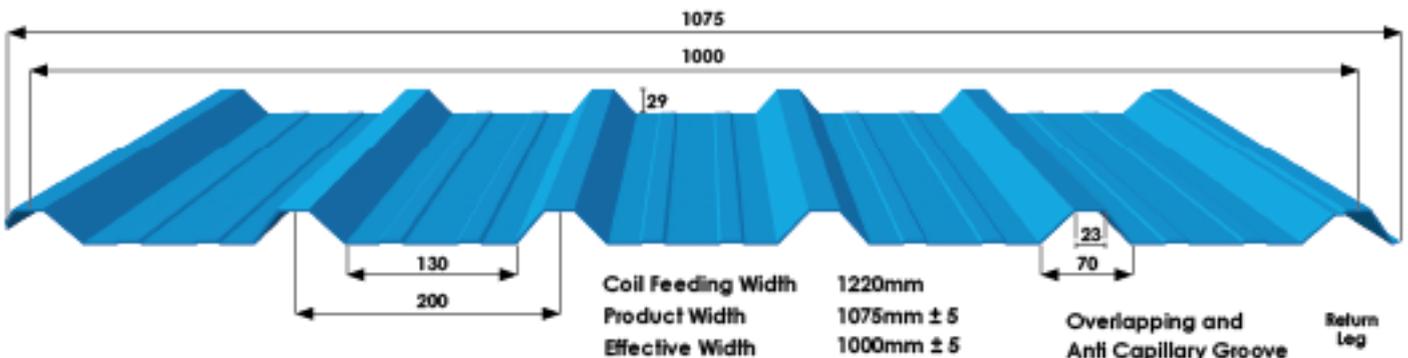


HOLLOW SECTION PURLIN

Hollow section are hot rolled formed sections with a minimum yield strength of 10 MPA & UTS 450 mpa

The organization produces a diverse range of components to fulfill all building needs comprehensively.

TRAPEZOIDAL ROOFING PROFILE



RAL code colour sheets are also supplied upon customer request based on quantity
 Note: Colours shown above may vary from shades depending upon batch to batch and suppliers.

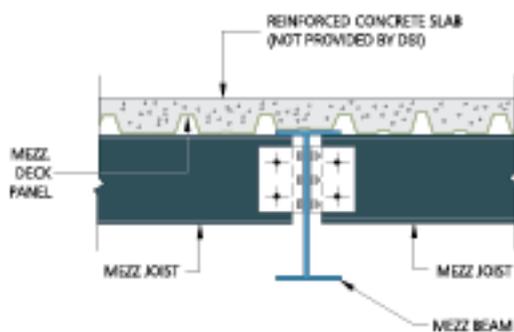
A mezzanine floor is an intermediate floor between main floors of a building. Standard Mezzanine floor system consists of Galvanized profile steel deck, joists the beam and intermediate support columns. A light concrete is used to make a permanent floor.

Mezzanine floors can be designed to accommodate all kinds of manufacturing equipment and production lines, and can integrate with existing logistics and storage systems.

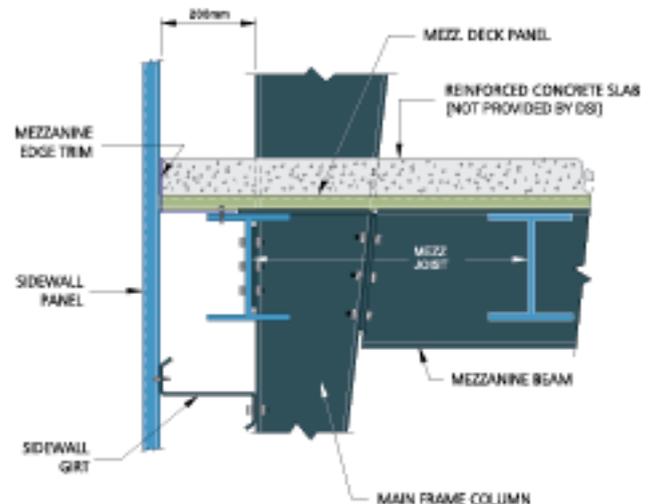


USES OF MEZZANINE FLOORS

- Storage Mezzanines
- Office Mezzanines
- Warehouse Mezzanines
- Retail Mezzanines
- Production Mezzanines
- In-site concrete solution



Mezz. Joist Connection To Mezz. Beam



Mezz. Beam Connection To Mainframe Column

Advantages

- ✓ Single source supply for mezzanine and building
- ✓ Integrated design of the mezzanine in the building
- ✓ Maximized use of building space
- ✓ Reduced construction time: simultaneous erection of mezzanine & the building

TURBO VENTILATION FAN

Turbo Ventilators driven by wind are used world over because of their Low Capital Costs, Easy Adaptability, High air displacement capacity per ventilator and Overall reliability. Turbo Ventilators are procured under our stringent quality parameters. Polycarbonate base is provided for better strength



Colour coated sheet Louvers

Standard Louvers are made with overlapping type blades providing maximum airflow. Louvers are made from the same PPGL sheets using the chosen colors.



Product Features

- ✓ Reduce heat build-up
- ✓ Reduce gaseous by-products from the manufacturing process
- ✓ Reduce flammable fumes to avoid risks of fire
- ✓ Increase the performance of the ventilation system in pre-engineered buildings
- ✓ Optimize energy use of air conditioners and save operations costs.



INDUSTRIAL LOUVERS

- ✓ There are different types of louvers available e.g. 'S' Louvers, Industrial Louvers etc. They are installed with bird mesh and utmost care is taken while designing the same to avoid water penetration inside the building.

RIDGE VENTILATOR

- ✓ Ridge Vents are manufactured with galvanized steel sheets. Based on air changes required, individual Ridge Ventilators in each Bay or continuous Ridge Ventilators throughout the length are selected. There is a range of ventilators in throat sizes from 300 to 600 mm complete with fixing accessories.

ROOF MONITOR

- ✓ Roof Monitor is the raised portion of the main building, generally at the ridge. Ridge Monitors are manufactured by EHE from Cold-Formed sections and Hot Rolled I sections. Roof Monitors are widely used for the buildings where more number of air changes required. It is considered to be the best ventilation solution for Steel Buildings

METAL BUILDING SYSTEMS

At the start of any new venture one needs a Strong and Dependable partner to provide customized and economical solution for structural needs.

Empire Heavy Engineering is such a partner where dreams are translated into plans and then plans are executed to achieve desired goals. With our customer centric approach, "We Deliver what We Promise." Improvements in technology over the last few years have contributed immensely to the enhancement of quality of life. The pre-engineered buildings are the best example of one such technological marvel. Empire Heavy Engineering PEBs are pre-engineered, pre-fabricated metal Structures, Empire Heavy Engineering PEBs are specially engineered with precision and advanced technologies to best suit the customer requirements.

At Empire Heavy Engineering all the design, manufacturing and quality processes are set at par with industry benchmarks. We have dedicated, well trained and enthusiastic professionals to execute the various functions from design to erection and back up services.

ADVANTAGES



Aesthetically Appealing



Fastest Roofing Solution



Cost Effective



Long Life



Large Clear Spans



Single Source Responsibility



Low Maintenance



Customization



PRE ENGINEERED BUILDINGS VS CONVENTIONAL STEEL BUILDING

Property	PEBs (Pre-engineered buildings)	Conventional Buildings
Structure Weight	Pre-engineered buildings are 30% lighter than conventional structures due to optimized use of steel sections.	These are heavier than PEBs as primary members are constant cross sections regardless of the magnitude of the local stresses.
Design	Design process is quicker and more efficient as standard sections and connectors are used.	Design process is lengthy and complicated as each conventional structure is designed from scratch.
Secondary members	Secondary members are lightweight roll-formed "Z" or "C" shaped members called PURLINS.	Secondary members are heavier as they are selected from standard hot rolled sections.
Foundation	Simple to design and easy to construct.	Extensive and heavy foundation required.
Lower Cost	Price per square meter may be as low as 30% cheaper than conventional buildings.	Higher price per square meter.
Single Source Responsibility	One STOP SHOP facility from design to execution and erection.	Many sources of supply – becomes difficult to coordinate.
Order to Delivery Time	Average 4 to 8 weeks.	Average 20 to 26 weeks.
Section & Future Expansion	Convenient, simple, and requires less time.	Complex, costly, and requires more time.
Salvage Value	Has high salvage value.	Has negligible salvage value.

APPLICATIONS



Manufacturing Facilities



Warehouses



Work Shops



Poultry & Cattle Farms



Site Offices



Agriculture



Infrastructure



Cabins



Cold Storage



Other Applications



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