

WELCOME

# JAGDEV ENGINEERING WORKS

**PRE-ENGINEERED BUILDING &  
GI ROOFING SHEET SOLUTION**



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# About Us.

## Introduction

Jagdev Engineering Works Pvt. Ltd., established in 2019 and based in Lucknow, is a leading manufacturer of Pre-Engineered Buildings (PEB) and GI Roofing Sheets. We provide end-to-end structural solutions backed by modern technology, engineering precision, and industry standards.

Our expert team uses Computer-Aided Design (CAD), BIM modeling, and structural load analysis software to design and manufacture structures that are safe, durable, and efficient. We follow national standards such as IS 800, IS 801, IS 2062, IS 875, and IS 1079 to ensure superior quality and compliance in every project.

From structural fabrication to on-site erection, we deliver reliable and cost-effective solutions for industrial sheds, warehouses, commercial buildings, and customized steel infrastructure. Our GI roofing sheets are produced using advanced roll-forming and coating techniques for high corrosion resistance and long life.

At Jagdev Engineering Works, we combine **technical expertise** with **engineering innovation** to build the future — one structure at a time.



# Mission & Vision.

## MISSION

- To manufacture high-quality Pre-Engineered Buildings (PEB) and GI Roofing Sheets.
- To ensure every project follows relevant Indian Standards such as IS 800, IS 2062, IS 875, and IS 1079.
- To provide cost-effective and timely structural solutions tailored to client needs.
- To build long-term relationships with clients through reliable service and technical excellence.

## VISION

- To set benchmarks in quality, safety, and performance in PEB and roofing solutions.
- To promote innovation and sustainability in design and construction.
- To continuously upgrade our processes with modern engineering practices and technologies.
- To contribute to India's industrial growth through durable and smart steel structures.



# Our Philosophy.

At JEW Pvt. Ltd., our philosophy is grounded in the belief that quality engineering is the foundation of lasting success. We are committed to delivering durable, efficient, and customized solutions in Pre-Engineered Buildings and GI Roofing Sheets by combining technical excellence with integrity and customer focus. Every project we undertake reflects our dedication to precision, safety, and innovation, guided by relevant industry standards and modern technologies. We believe in building not just steel structures, but long-term trust with our clients through ethical practices, transparent communication, and continuous improvement.

**"We don't just build structures — we engineer strength, trust, and tomorrow."**

# The Organization.



**Er. Anil Yadav**

**FOUNDER & DIRECTOR**

At JEW Pvt. Ltd., our journey since 2019 has been defined by consistent growth, technological advancement, and a deep commitment to excellence. What began as a vision to deliver high-quality Pre-Engineered Buildings and GI Roofing Sheets has today evolved into a trusted name in the steel infrastructure industry. This progress would not have been possible without the hard work, dedication, and integrity of our team.

I take immense pride in the fact that every member of our organization plays a crucial role in shaping our success. Our engineers, technicians, and staff are the backbone of our company — their passion, innovation, and commitment to quality continue to set us apart in a competitive market.

We believe in growing together — as a company, as a team, and as individuals. As we expand our capabilities and reach new milestones, we remain committed to upholding our core values of trust, transparency, and continuous improvement.

To our employees — thank you for your contribution and loyalty. To our clients and partners — thank you for your trust. The journey ahead is promising, and together, we will continue to build stronger, smarter, and more sustainable solutions for the future.

Warm regards,

**"Each task you complete adds value to something bigger — never underestimate your contribution."**

# Growth & Strength

JEW Started with fabrication of Pre - engineered building 120 MT per month in the year 2019 and now production has increased 200 MT per month. Company is now planning to increase its capacity to 700 - 900 MT per month this year

High quality products.

Excellent client service/interface.

A commitment to quality in service and product all the Time.

Committed to deliver material in time.

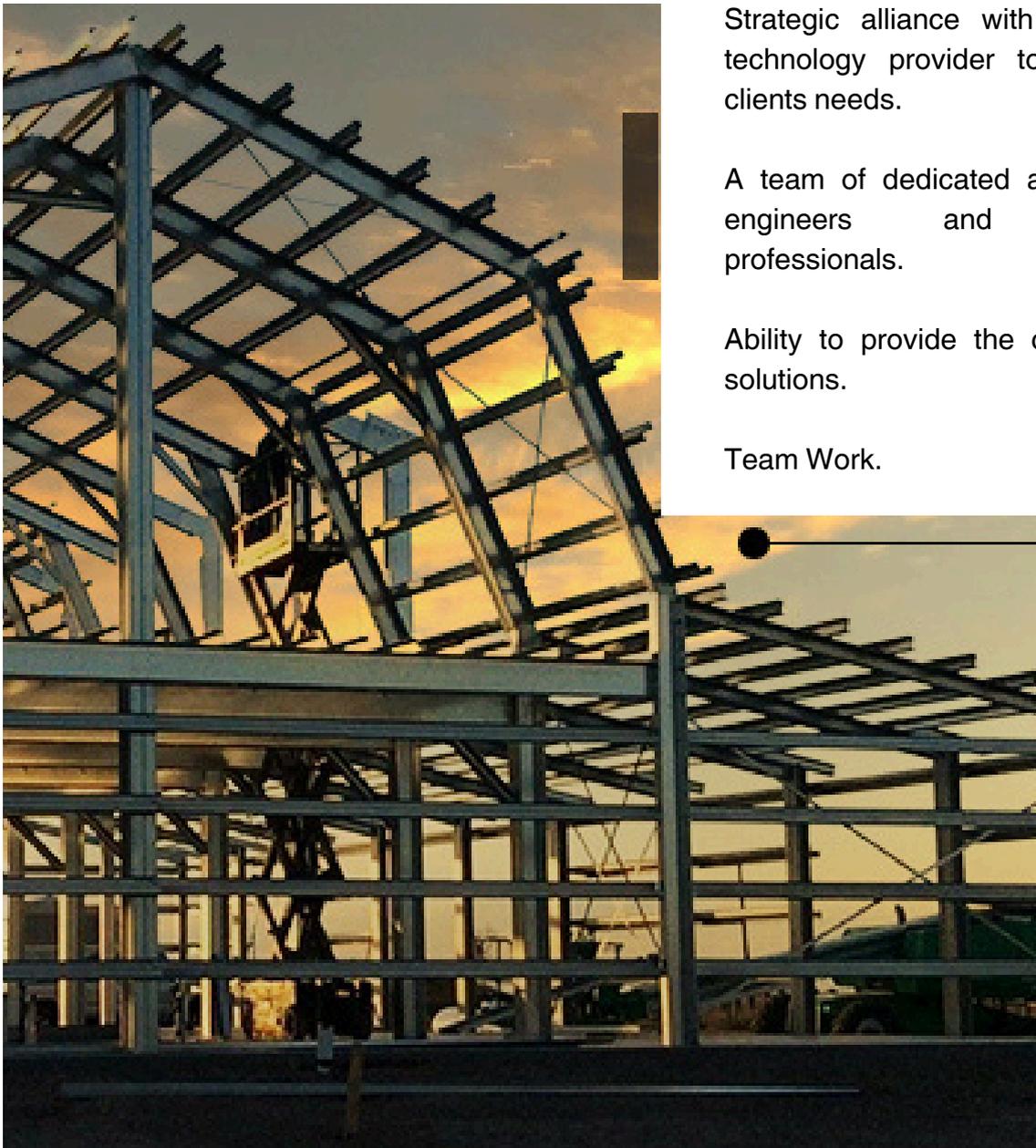
Committed to deliver material in time.

Strategic alliance with the leading technology provider to satisfy our clients needs.

A team of dedicated architect, civil engineers and marketing professionals.

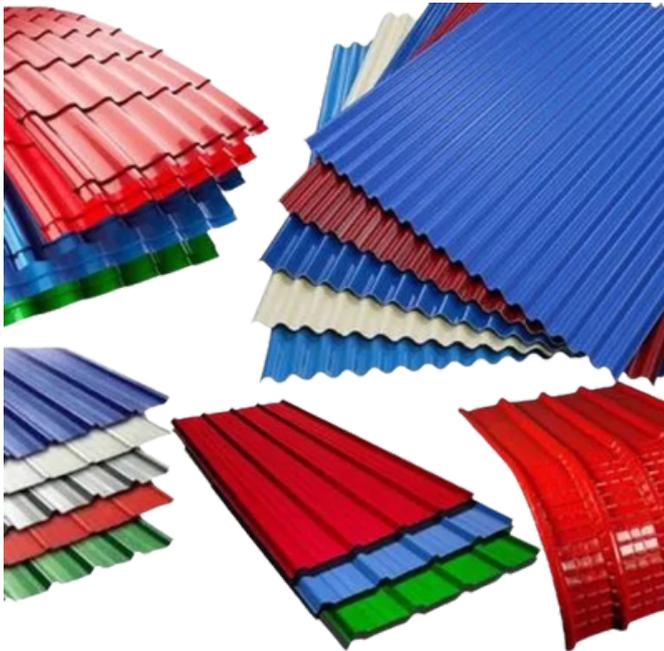
Ability to provide the cost effective solutions.

Team Work.



# Company Profile

JWE Pvt. Ltd., based in Lucknow, is a leading manufacturer in the field of **Pre-Engineered Buildings (PEB)** and high-quality **GI/PPGI Roofing Sheets**. Since 2019, we have been delivering innovative, cost-effective, and durable steel building solutions for industrial, commercial, and institutional projects. Backed by advanced CAD designing, precision fabrication, and strict quality standards like IS 2062 and IS 801, we ensure structural excellence from concept to completion. Our integrated approach covers design, manufacturing, and on-site erection with a strong focus on performance, safety, and timely delivery.



Our company has enhanced extensively under the supervision of our well qualified and skilled team members, their hard work and constant efforts have taken the organization to new heights of success. We strongly believe in providing positive client satisfaction. Our customer-centric approach has been appreciated among our wide client base spread all across the world

The complete range of our products are extremely demanded for its optimum quality. At any case we never compromise in our quality part of our products and follow strict total quality checks at our testing units. These steps help us to make sure that our products have high durability and fine finishing.



# WHY JAGDEV ENGINEERING WORKS



End-to-End PEB  
Solutions



High-Quality  
Roofing Sheets



Experienced  
Team



On-Time  
Delivery



Client-Centric  
Approach



Customized  
Solutions



# Our Services

We provide complete solutions in **Pre-Engineered Building (PEB)** manufacturing and **Roofing Sheet Production**. Our services include the design, fabrication, and erection of high-performance steel structures tailored for industrial, commercial, and warehousing applications. Using advanced design tools like AutoCAD and Tekla, we ensure precise engineering and adherence to Indian standards such as IS 2062 and IS 801. We also manufacture premium quality GI and PPGI roofing sheets that are durable, corrosion-resistant, and suitable for a wide range of roofing and cladding applications. With a dedicated team and modern infrastructure, we deliver reliable, cost-effective, and timely solutions that meet the unique needs of our clients.



# PRE - ENGINEERING BUILDING

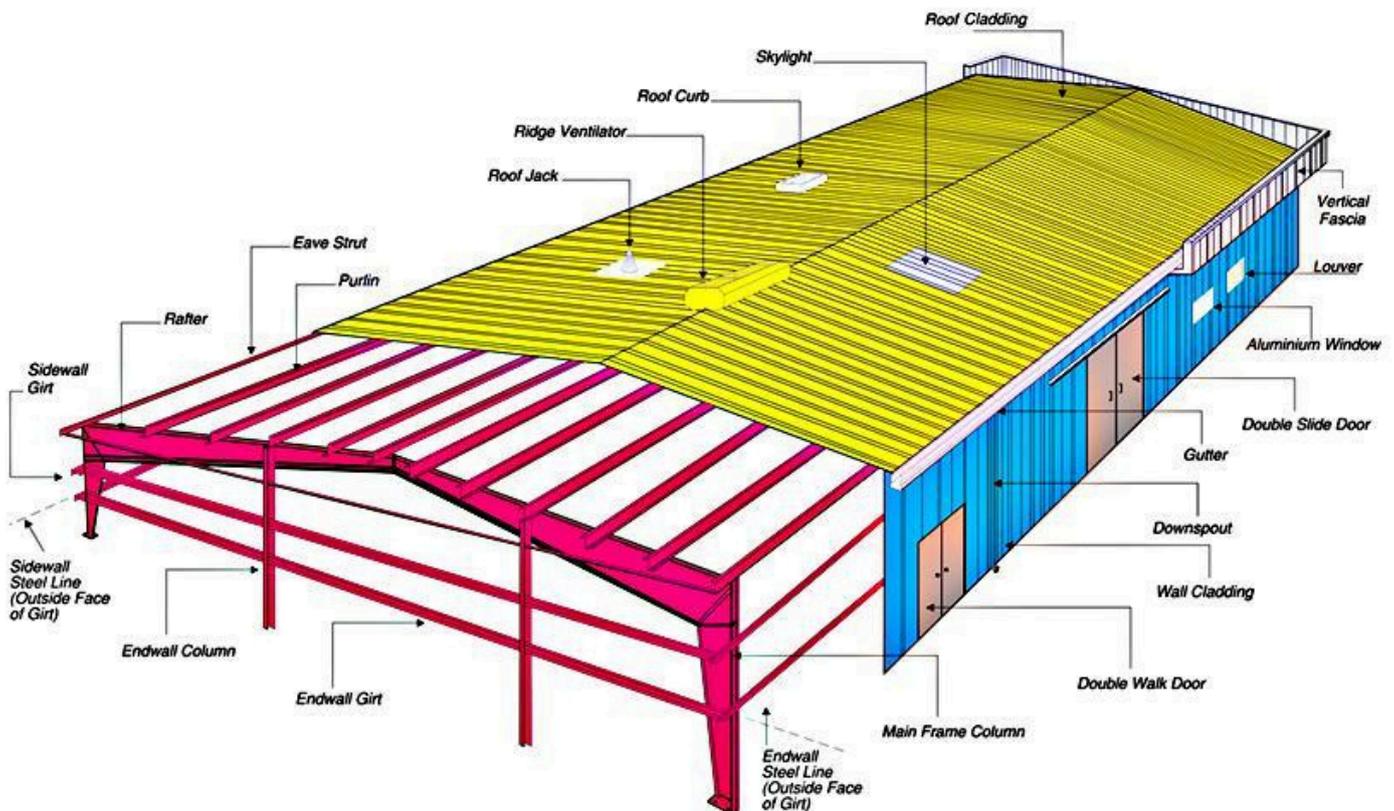


Technological improvements over the year have contributed immensely to the enhancement of quality of life through various new products and services. One such revolution was the pre-engineered buildings through its origin can be traced back to 960's it's potential has been felt only during the recent years. This was mainly due to the development of technology, which helped in computerizing the design.

Although PEB systems are extensively used in industrials and many other non-residential constructions worldwide, it is relatively a new concept in India. These concepts were introduced to the Indian markets later in the late 1985 with the opening up of the economy and several multinationals setting up their projects. Although Indian manufacturers are trying to catch up; the JE Works has already made it a part of its product.

Pre-Engineered Building (PEB) technology refers to a modern construction method where steel structures are pre-designed, pre-fabricated, and then assembled on-site using standardized components. The main frame typically consists of built-up I-sections, while secondary members like purlins and girts are made from cold-formed sections. Roofing and wall cladding are done using high-quality GI or PPGI sheets, and the structure is stabilized using bracing systems.

Designed using advanced software such as AutoCAD, STAAD Pro, and Tekla, PEB systems comply with standards like IS 800, IS 801, and IS 875. This method offers multiple advantages such as faster construction, reduced material wastage, cost-effectiveness, and long-term durability. PEBs are widely used in industrial sheds, warehouses, cold storage, commercial buildings, and logistic parks due to their lightweight nature, flexibility in design, and ease of expansion. The process includes structural design, fabrication with CNC precision, surface treatment, transportation to the site, and final erection using bolted connections. Compared to traditional RCC buildings, PEBs are quicker to construct, more economical, and require less maintenance over time.



# Why PRE - ENGINEERING BUILDING System



## Profitability of Clients by Cutting Cost at the Multiple Level

- Start-up cost
- Life Cycle Cost
- Constructions cost
- Maintenance costs



## High Quality

- High Grade hi-tensile Steel (345 Mpa conforming to ASTM A572 Gr 50)
- Galvalume roofing/wall cladding system (Imported Coils)
- Light weight structure
- Parameters like Wind Speeds, Loads, Seismic Zone Considered and wind loads are considered while designing the building.



## Time Schedule

As compared to the conventional building the time required by the PEB is just a small fraction. This is so because the components are:

- Pre-welded
- Pre-drilled
- Pre-punched
- Pre-fabricated all in all
- with per fitments



## Customized Building as per the need in terms of

- Dimensions of the building (Length/Width/Height)
- Clear Spans or Multiple Bays



## Flexibility to have Floor Plan as desired or even change



## Durability

- Corrosion Resistance
- Higher seismic resistance capabilities



## Energy Efficient Building

- Proper ventilation
- Specific ventilation mechanism to suit individual application



## Aesthetics

- Contemporary look.
- Range of colors.



## Easy to erect and easy to dismantle



**Knock  
Down  
assembly**



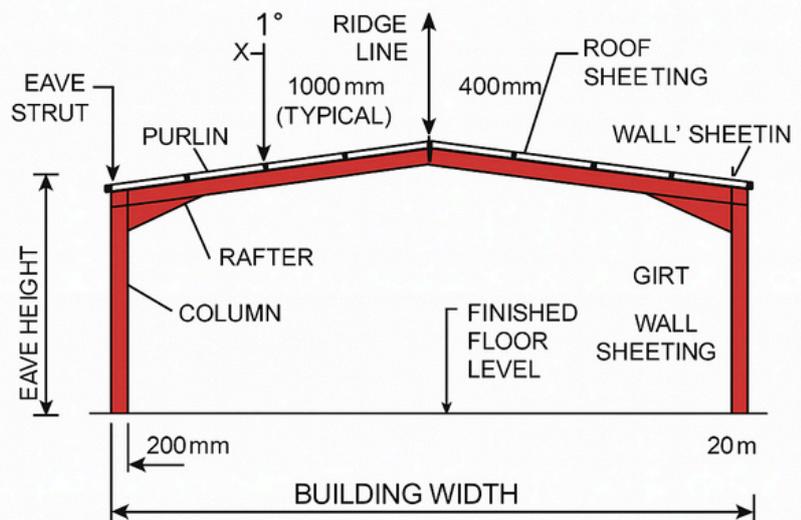
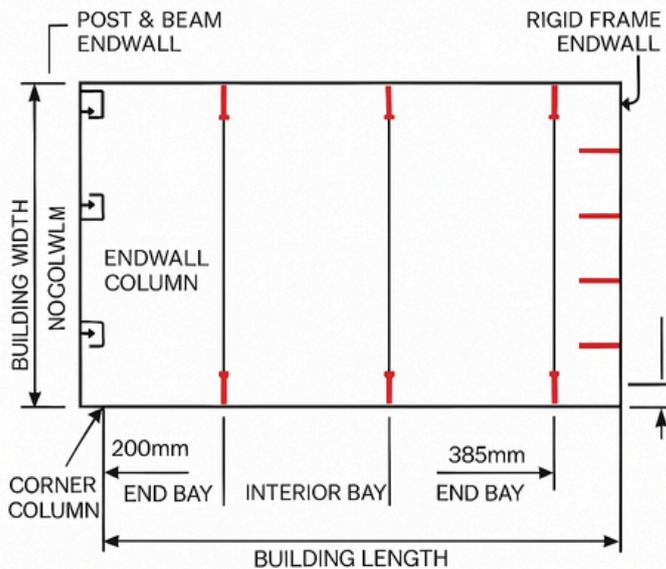
**Periodical  
Services**



**Cost  
Effective  
Solution**



# Concept of Pre - Engineering Building



## Building Dimensions

- The distance between the outside flanges of end wall columns in opposite end walls is considered the building length.
- End bay length is the distance from outside of the outer flange of end wall columns of the centerline of the first interior frame columns.
- Interior bay length is the distance between the center lines of two adjacent interior main frame columns.
- The most economical bay length is 6m or 7.5m. However, bay length up to 15m is possible.

## Building Height

- Building height is the Eave height which usually is the distance from the bottom of the mainframe column base plate to the top outer point of the eave strut. Eave heights up to 30m are possible.
- When columns are recessed or elevated from the finished floor, eave height is the distance from the finished floor to the top of the eave strut.

## ROOF SLOPE (X/10)

- This is the angle of the roof with respect to the horizontal. The most common roof slopes are 1/10 and 1/20, though any practical roof slope is possible as per customers' requirements.

## DESIGN LOAD

- Unless otherwise specified JEW Pre-Fab building systems are designed for the following minimum loads.

### Design Wind Speed

- As per IS:875 for location

## ROOF LIVE LOADS

- 0.75 kN/m<sup>2</sup> Design for snow loads, seismic loads, collateral loads, or any other local climatic condition (if required) must be specified at the time of quotation.
- Loads are applied in accordance with the latest American codes and standards applicable to pre-engineered buildings unless otherwise requested at the time of quotation.



# Component of Pre - Engineering Building

In a Pre-Engineered Building (PEB), the structural components are broadly classified into primary and secondary components. The **Primary Components** are the main load-bearing elements of the building. and **Secondary Components** are used to support the wall and roof sheeting and to transfer loads to the primary frame. These secondary members also provide stability and help maintain the structural alignment of the building.

## Primary Component

### COLUMNS -

- Vertical structural members made from tapered or built-up I-sections Transmit loads to the foundation through base plates and anchor bolts. as per Indian **Standard IS 2062** mostly used **Mild Steel** material.



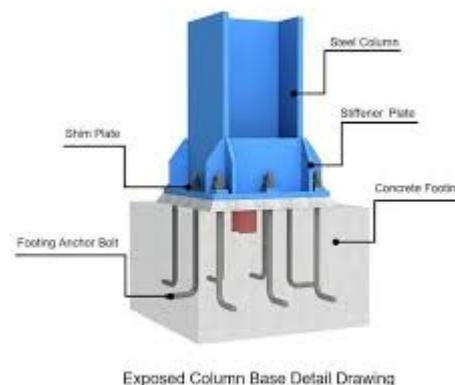
### RAFTERS -

- Sloped beams forming the roof frame, Fabricated from tapered welded **I-sections**, optimized for load distribution, **Connected to columns** via haunch connections



### BASE PLATES & ANCHOR BOLTS -

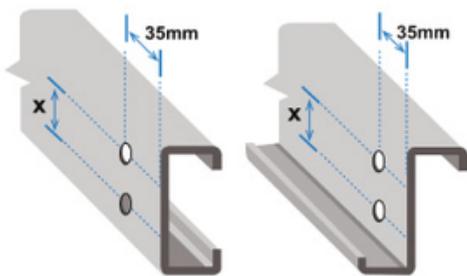
- Connect the steel column to RCC foundation, Plates as per IS 2062, bolts per IS 3757/8009.





## PURLINS -

- Horizontal members placed along the roof, supporting roofing sheets.
- Common profiles: Z or C section.



## SAG RODS -

- Provide lateral support to purlins/girts to reduce bending and deflection.



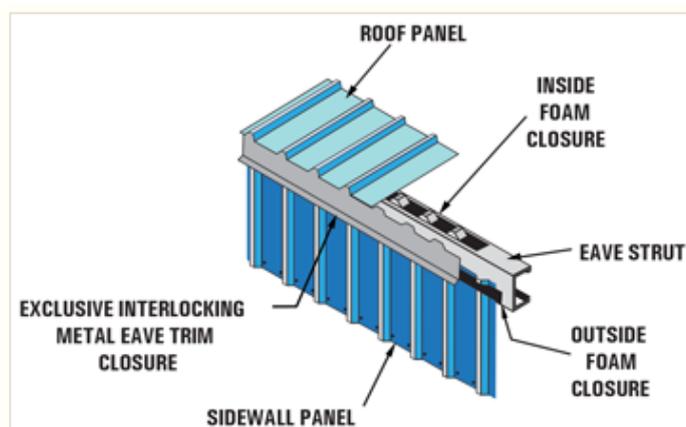
## BRACINGS (ROD/DIAGONAL) -

- Diagonal members (cable or rod type) used for lateral stability.
- Types: Wind bracing, flange bracing, X-bracing, knee bracing.



## EAVE STRUTS -

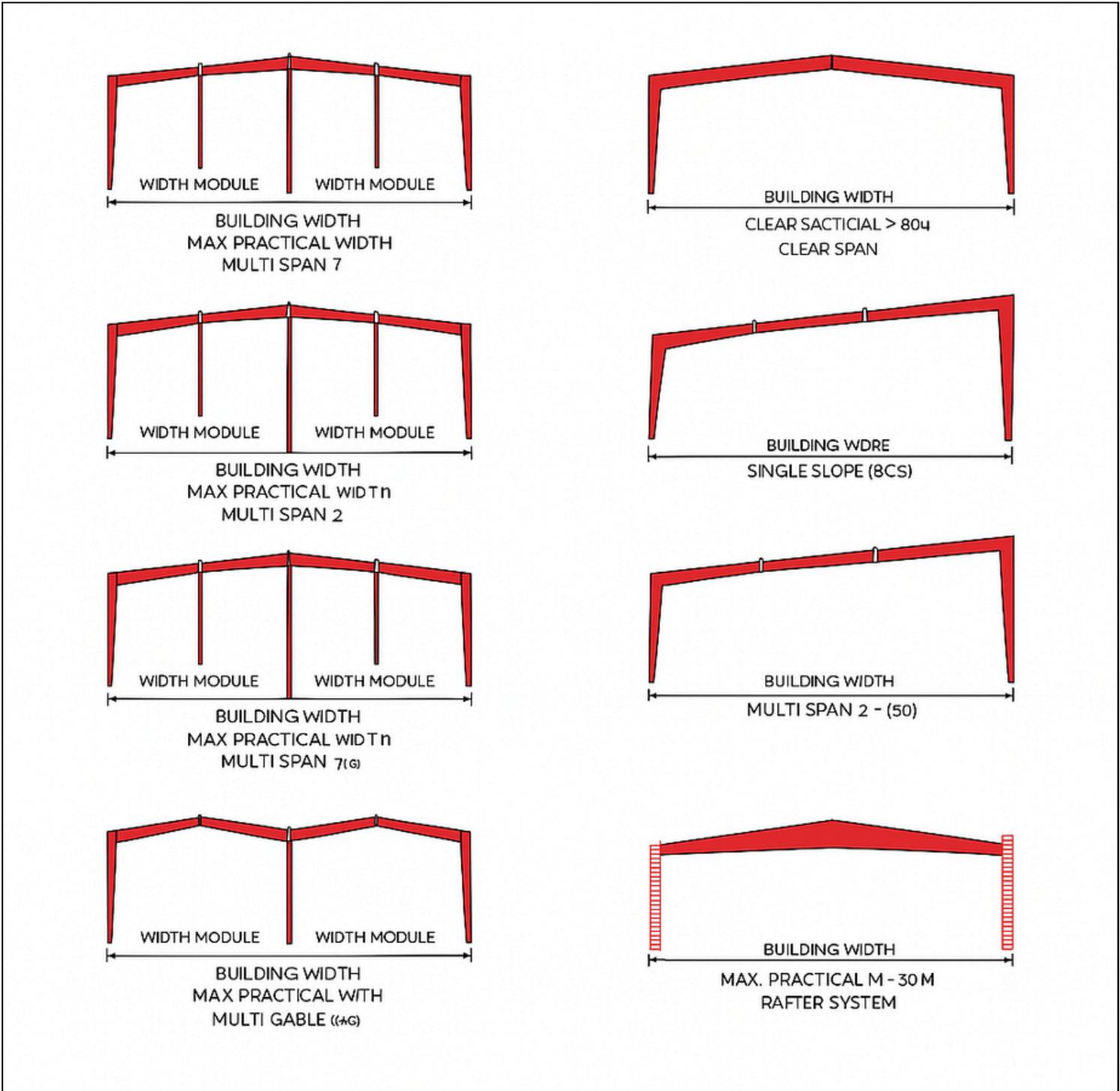
- Horizontal members at the intersection of the roof and wall.
- Support both roof and wall sheets and help with gutter support.



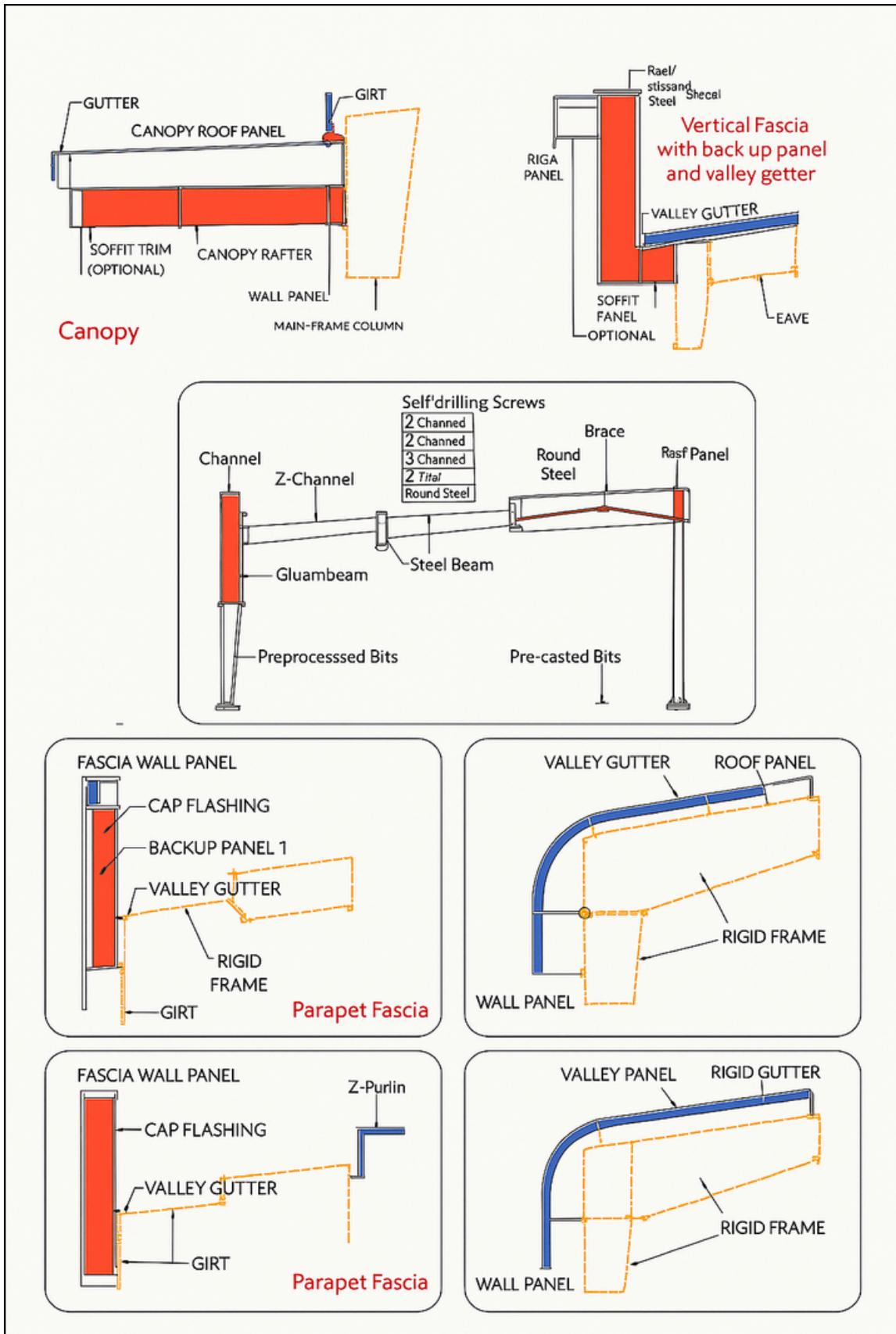
# Building Span Length in PEB



The building span length in a pre-engineered building refers to the distance between two main columns across the width of the structure. It defines the clear width of the building without intermediate supports. PEBs can typically span from 10 meters to 60 meters or more, depending on the design. Longer spans are achieved using rigid steel frames, optimizing space and reducing internal obstructions.



# Primary Frame Joint in PEB



# Preview of Pre - Engineering Building



# Roofing Sheet Manufacturer at

## JEW Prime

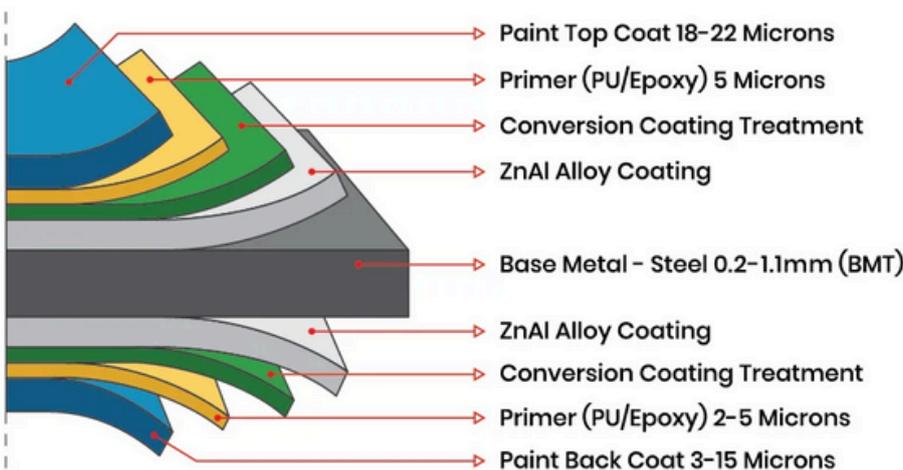
**Premium Protection. Proven Performance.**

Introducing JEW Prime Roofing Sheets – a signature brand by Jagdev Engineering Works Pvt. Ltd., engineered to deliver unmatched strength, durability, and aesthetics for all industrial, commercial, and residential roofing applications.

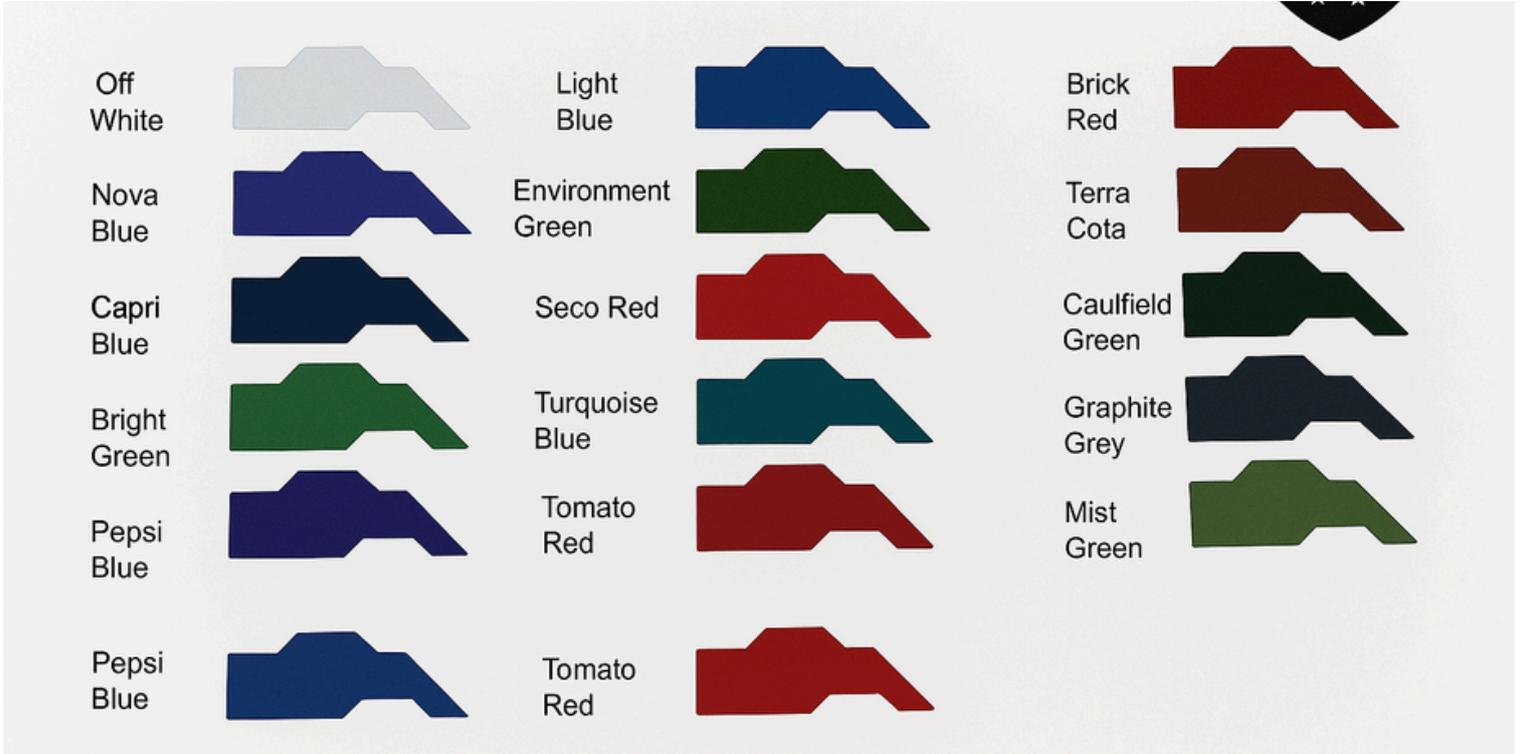
Crafted using high-quality Galvanized Iron (GI) or Pre-Painted Galvanized Iron (PPGI/PPGL) coils, JEW Prime Sheets undergo precision roll-forming using advanced JUPITER rollforming machine to ensure perfect alignment, profile accuracy, and superior finish.

### Product Specifications:

- **Base Metal:** Galvanized Iron (GI) / PPGI / PPGL
- **Coating Thickness:** Zinc coating – 90 GSM to 275 GSM (As per IS 277)
- **Sheet Thickness:** 0.30 mm to 0.80 mm
- **Width Coverage:** Effective cover width – 1220 & 1440 mm ( $\pm 2$  mm)
- **Length:** Customizable (up to 30 feet as per client requirement)
- **Tensile Strength:** 240 MPa to 550 MPa (Depending on grade)
- **Paint Coating:** Regular Modified Polyester / SMP / PVDF (Top coat 18–25 microns, back coat 5–7 microns)
- **Color Options:** Multiple shades available (RAL codes)



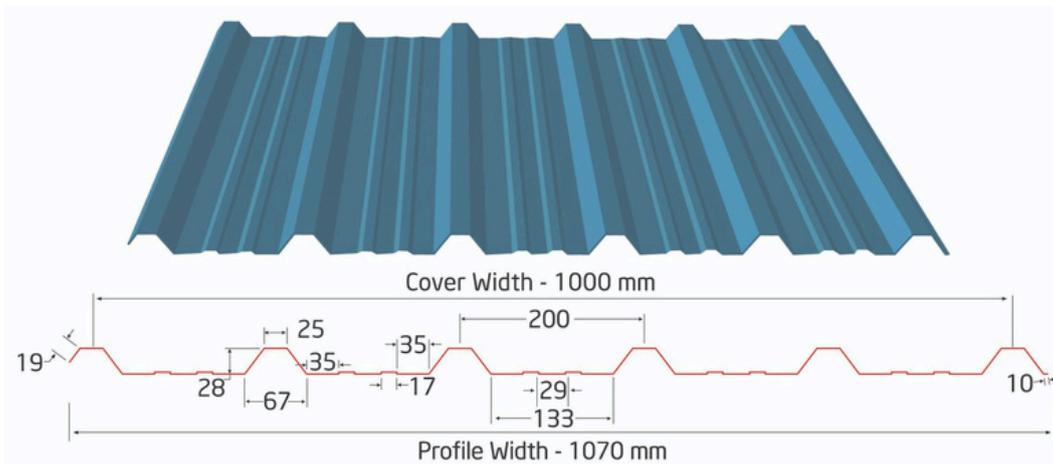
# A Wide Range of Colours:



## Different Design:

### Double Rippled Trapezoidal Profile

Thickness (TCTP in mm)	0.45 & 0.50
Effective Cover Width (mm)	1020 & 1440
Pitch (mm)	265.5+/-2.5
Crest Height (mm)	29+/-2
Length (ft)	8, 10, 12, 14, 16, 18, 20, 22, 24,
Substrate	PPGL



# Advantages of Roofing Sheet



- **Durability:**

Made from high-quality materials like GI (Galvanized Iron) or PPGL (Pre-painted Galvalume), roofing sheets are corrosion-resistant, ensuring a long service life of 15–25 years depending on coating thickness.

- **Corrosion Resistance**

Coated sheets like GI, PPGL, and FRP are designed to withstand harsh weather conditions, making them ideal for industrial and residential applications.

- **Weather Resistance:**

Designed to withstand extreme temperatures, UV rays, and heavy rainfall, making them suitable for all climates.

- **High Strength-to-Weight Ratio:**

Despite being lightweight, they offer excellent structural strength, making them ideal for large-span structures.

- **Thermal and Acoustic Insulation:**

Available with PUF/EPS insulation panels to improve thermal resistance (R-value) and reduce noise.

- **Aesthetic Appeal:**

Available in various colors, profiles, and finishes, enhancing the visual appeal of industrial and commercial buildings.

- **Recyclable & Eco-Friendly**

Metal roofing sheets are 100% recyclable, reducing the environmental footprint.

- **Quick and Easy Installation**

Sheets are lightweight and available in custom lengths, reducing installation time and labor costs.



# Jagdev Engineering Works



## Corporate Office

1/844 Vardan Khand, Gomti Nagar Extension,  
Lucknow, UP. INDIA 226010



## Plant - 1

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226013



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