

PREFABRICATED BUILDINGS

Mahabir Industries offers prefabricated Buildings/Structures. We use modern equipment which is fully automated and requires minimal human intervention, thus bringing about precision and accuracy. The prefabricated structures we manufacture make a significant contribution to the construction site project, due to its durability.








These structures are widely preferred for qualities like minimal maintenance, insulation from heat and a wide range of other factors that suit industrial needs. Contrary to the popular belief, these buildings are durable. They are quick to install and are built to last.

Our range is known for its highly premium quality and excellent results at the same time being very popular among our clients for greater finish, quality and longer service life. That's the unique selling proposition of all our products, besides fast construction time.



**MAHABIR
R & D**

APPLICATIONS

- | | |
|---|---|
|  Gas Station |  Schools |
|  Showrooms |  Recreational |
|  Vehicle Parking Sheds |  Buildings |
|  Metro stations |  Indoor Stadium roofs |
|  Warehouses |  Outdoor Stadium canopies |
|  Factories |  Railway platform shelters |
|  Offices |  Bridges |
|  Workshops |  Auditoriums |



WHY CHOOSE PRE-FABRICATED BUILDINGS?

- The process of prefabrication is 60 percent faster than traditional construction
- High tolerance, corrosion resistance and durability are the praised features of prefabricated structures
- Dimensional accuracy of the structure is guaranteed and the end product will exceed client expectations
- Prefabricated structures offer quick erection times and installation possibilities at sites that are unsuitable for conventional construction processes
- Flexibility: Prefabricated buildings can be customized to meet specific design requirements, and they can also be easily modified or expanded in the future if needed.
- Energy efficiency: Some prefabricated building systems come pre-insulated, this can help to improve energy efficiency. This makes them ideal for use in regions with extreme climates or for projects that require a high level of thermal performance.
- Durability: Prefabricated buildings are designed and built to withstand the test of time and the elements. Many are made from high-quality materials that are resistant to corrosion, rot, and other types of damage.
- Transportability: Many prefabricated buildings are designed to be transported easily, which means they can be quickly and efficiently moved to different locations as needed.

APPLICATIONS

1. MODULAR HOMES

Modular homes are constructed in sections, or modules, in a factory. These sections are then transported to the building site and assembled by a team of builders. Once assembled, they are typically indistinguishable from traditional, site-built homes. They can be built more quickly than traditional, site-built homes and the construction process is more efficient and streamlined, which helps to reduce labor costs and can save time and money, while also ensuring a high level of quality and precision. They can be customized to meet specific design requirements. Many modular home manufacturers offer a wide range of design options, including different floor plans, exterior styles, and finishes.



APPLICATIONS

2. PORTABLE OFFICES

Portable offices are designed to be easily transported and assembled on-site. They are versatile and efficient, and offer a convenient and cost-effective solution for a variety of needs, including temporary or permanent office spaces, accommodation, classrooms and other similar facilities.

They can be quickly and easily transported to different locations as needed, making them ideal for use in a variety of settings, such as construction sites, remote locations, and even disaster relief efforts. Additionally, they can be easily reconfigured or expanded if the need arises

portable offices and cabins also offer a high level of security and privacy. They can be locked to prevent unauthorized access and can be equipped with surveillance cameras and other security features to protect employees and equipment.



APPLICATIONS

3. PREFABRICATED STEEL STRUCTURES

Prefabricated steel structures are buildings that are manufactured off-site using steel components, and then assembled on the building site. They are known for their strength, durability, and cost-effectiveness.

Steel structures are also known for their precision and accuracy. The components are manufactured in a factory under controlled conditions, which helps to ensure a high level of precision and accuracy in the final product.

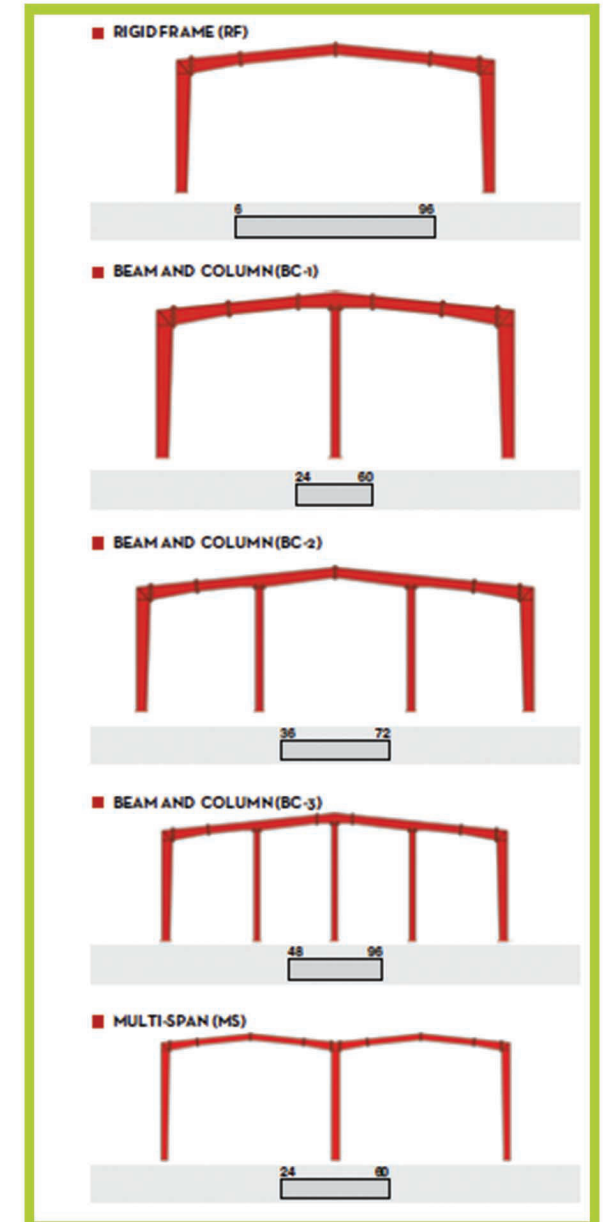
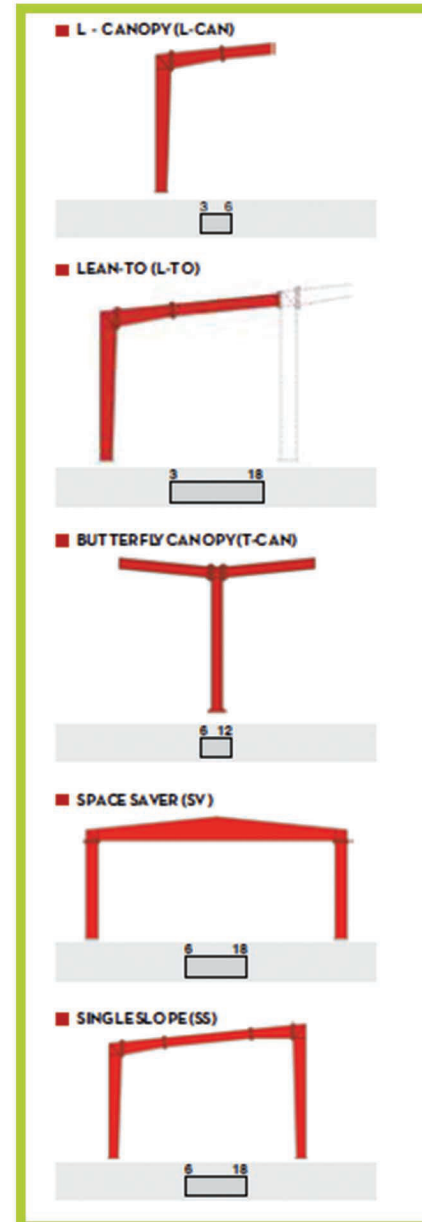
Sustainability is also an advantage of prefabricated steel structures, as steel is a 100% recyclable material, and using steel for construction can reduce waste and carbon footprint as compared to other materials.

They are used for a wide range of applications, including commercial and industrial buildings, such as warehouses, factories, and storage facilities



MAHABIR PREFABRICATED PRIMARY STRUCTURAL SYSTEM

Structural systems are the main load carrying and supporting members of pre designed buildings. The shape and size vary upon the requirement. All structural steel sections and welded plates members are designed based on the application. The recommended frame types are as follows



MAHABIR PREFABRICATED SECONDARY STRUCTURAL SYSTEM



Purlins and Girts

Purlins and girts are roll formed Z sections, 200mm deep with 64 mm flanges shall have a 16mm stiffening lip formed at 45 degrees to the flange



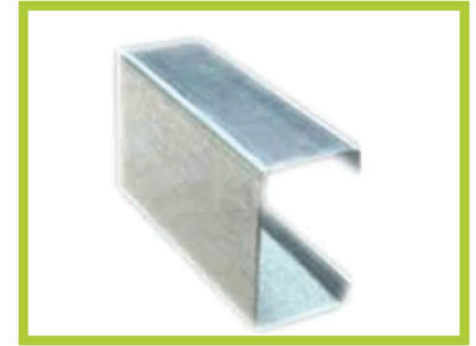
C- Sections

These Are 200mm deep with a 100mm flange. The flanges are perpendicular to the web and have a 24mm stiffening lip. Purlins & Girts



Curved Eaves

Curve Eaves can transform the look of any building. Curved eaves eliminate seam lines and provide a smooth line for the eye to follow. Our crimping-curving process increases the rigidity of the Curved panels making this choice of panels not only visually appealing but also practically durable.



Eave Strut

Eave struts are 200 mm deep with a 104 mm wide top flange, a 118 mm wide bottom flange, both are formed parallel to the roof slope. Each flange has a 24 mm stiffener lip. Structural members are located along the sidewall at the intersection of the planes of the roof and wall.

PACKING AND CONTAINERIZATION

At Mahabir, containerization is the manifestation of the company's ethos to care till the last mile for its valuable customers. Utmost care is taken to ensure all tower parts reach the end customer in sturdy sea-worthy packing for ease of handling during transportation from factory to installation site. All our plants are geared up to do single tower bundling and factory stuffing of containers for ensuring safe delivery to site.

Proper lashing, choking and fumigation are done to ensure international norms of packaging. Services of professional logistics enable best shipping lines and fast delivery to our international customers. A dedicated fleet of transporters are engaged for transportation of towers to our domestic customers.



PROJECT MANAGEMENT & EXECUTION

After achieving leadership and manufacturing in Towers, Fasteners and its accessories, the company is currently Involved in Inculcating superior project management and execution expertise in its EPC business for clients and providingvalue-added turnkey solutions.

RESOURCES

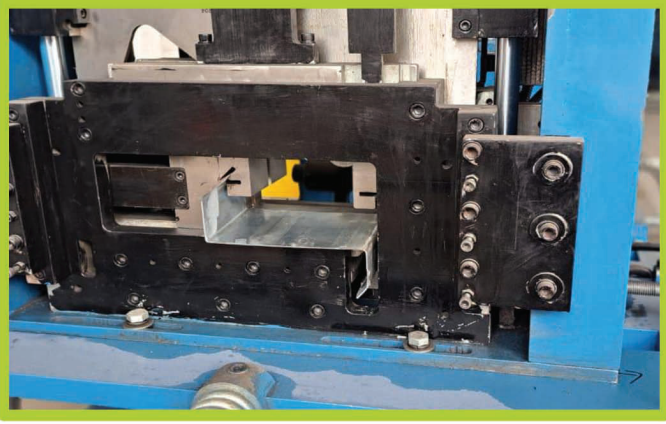
A perfect blend of critical key resources-people, equipment and a competitive network of service providers has enabled the Company to establish itself in the market.

People: The Company has a highly experienced and capable team of project management and project execution. It comprises project managers, surveyors, field engineers and skilled technicians. They are well experienced in their respective fields and well-versed, both with the conventional as well as advanced methods, of project execution.

Equipment: The Company possesses sophisticated tension-stringing machines, winches and other heavy duty construction equipment which give it a distinct edge to complete projects within a stringent time-frame.

Network of service providers: The Company has a well established and strongnetwork of service providers in India.

INSIDE FACTORY VIEW



Other PRODUCTS

Monopole:

A pioneer, Mahabir is the largest Monopole designing and manufacturing facility in India, armed with global expertise and intellectual capital. It has an application of upto 400 kV in Transmission structures and for heights of up to 40 metres for Telecom structures .

Telecom structures:

Mahabir has state of the art facility for production of all types of ground based telecom towers and monopoles. With the advent of newer technologies Mahabir is also currently supplying various kinds of camouflaged structures which are basically monopoles made to look like palm tree, pine tree etc. Our partners in South Africa have build various site management plans for structures companies in Africa.

Poles:

Mahabir's strength as a pole manufacturer lies in its ability to offer turnkey solution for lighting masts, steet lighting poles, decorative lighting poles, camera poles, distribution poles, flag mast tubular swaged poles, high mast poles, octogonal poles an Monopoles The durability and quality of Mahabir poles ensures long durability and ease of installation.

Railway Electrification:

The company is gearing up to sharpen its focus on Railway electrification and intends to increasingly start bidding for such projects in strategic alliance with local private players initially. The company is in the process of adding more manpower and building capacities to handle all future railways related projects.

Handrails:

Mahabir offers cost-effective ready fix handrail system to guard platforms, stairways, walkways, towers, danger zones, etc. Our modular systems consists of standard and custom handrails, which are delivered with all bends and joints duly marked for easy installation.

Solar:

Mahabir can offer complete state of the art solar EPC services ranging from ground mounted to roof top solution. Our partner company designs, conducts project feasibility across large-scale solar photovoltaic power plants with inhouse capability to manufacture solar structure and cables and can execute large projects of over 100 MW.

Pipes:

With over 60 years of experience in pipe manufacturing we offer a rare blend by adopting to latest technologies in the world. We manufacture uPVC, CPVC, SWR, HDPE and GI Pipes and fittings in our state-of-the art plants in India. We also maintain stocks of pipes in Nigeria, Kenya, South Africa, Mozambique and Angola in our partner warehouses. We are capable of developing new products for oil field and mining industry with our R&D Division.

Cable management system:

Mahabir is a leading fabricator of cable management systems - embossed tray, perforated cable trays, plain cable trays and ladder trays in mild steel, stainless steel and aluminium. Accessories for perforated as well as ladder type cable tray such as horizontal bends, vertical inside and outside bends, reducers and tees are available.

Bulk material handling system:

Mahabir can design material handling systems of various types such as belt conveyors, screw conveyors, feeders, bucket elevators, chain conveyors, roller conveyors, bag filters, rotary feeders, airlock valves, bin activators, air slides, jaw crushers, hammer mills, impact crusher, vibrating screens, reciprocating feeders etc as per your customized needs.

Civil and project export:

Mahabir Projects focus on construction of factories and warehouses we can offer complete EPC solution for designing and setting up for any kind of manufacturing plant. The partnership extends to hiring the top personnel for your factory. sourcing of raw material and developing an export market for your product.

Substation Gantry and Equipment support structures:

We have helped various clients in Africa in designing substations of upto 765KV. We would help with project planning and can manufacture all support equipment and gantry structures at our manufacturing facilities

Transformers:

Mahabir can manufacture instrument transformers upto 440 Kv which are type tested as per IEC/IS standards. Apart from routine tests, with an inhouse high voltage discharge test lab and series resonant system which allows testing of CT at 50 Hz & PT at 100 Kz directly.

Conductors:

We have one of the oldest manufacturing of ACSR conductors in India and have traded with nearly all 26 electricity boards in India. Conductors manufactured by us if laid in straight lines can transmit electricity from north pole to south pole on three parallel transmission line.

Steel Bridges:

A partner EPC contracting company within the group has extensive experience in building bridges across politically sensitive areas and tough terrains. Within our manufacturing facilities we manufacture plate grinders and open web Girder.

Insulators:

Mahabir is a leading supplier of state-of-the-art electric porcelain insulator for substation, overhead line and precipitator applications specialising in the insulator design upto 1200 KV AC and 1100 KV DC system voltages.

Grating:

Mahabir is among the largest electroforged grating manufacturers in India, having a large facility to produce electroforged grating panels, cut-to-size or custom fabricated electroforged gratings, circular gratings, heavy duty gully gratings and stair trends with required fixing clamps in mild steel and stainless steel. The grating can be supplied in self-color, hot dip galvanized and painted surface fresh.

Rice, wheat, oil and pasta:

Mahabir has rice, flour and oil mills and maintains supplies across various warehouses in Africa including South Africa, Madagascar, Angola, Benin and Kenya. We can also supply various other food products at short notice. Mahabir manufactures long cut and short cut pasta in Angola.

Wood works:

Mahabir has a state of the art manufacturing facility in Africa of plyboard, solid doors, windows and coffins.

Farm lands:

Mahabir grows out of its 2000 hector farms in Africa various fruits and pulses such as wheat



Mahabir Industries

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