AAVISHKAR

The Metal Designer

E BLOC INFRA LLP

INTRODUCTION

At Aavishkar The Metal Designer, we craft the future of infrastructure with engineering precision, innovative design, and reliable performance. Specializing in Pre-Engineered Building (PEB) systems and metal structures, we deliver custom solutions for industrial, warehousing, infrastructure, and commercial projects.

With a strong team of engineers and designers, we ensure every project meets the highest standards of safety, durability, and aesthetics. From primary frames to weather-resistant panels and accessories, we provide end-to-end solutions that simplify execution and maximize value.

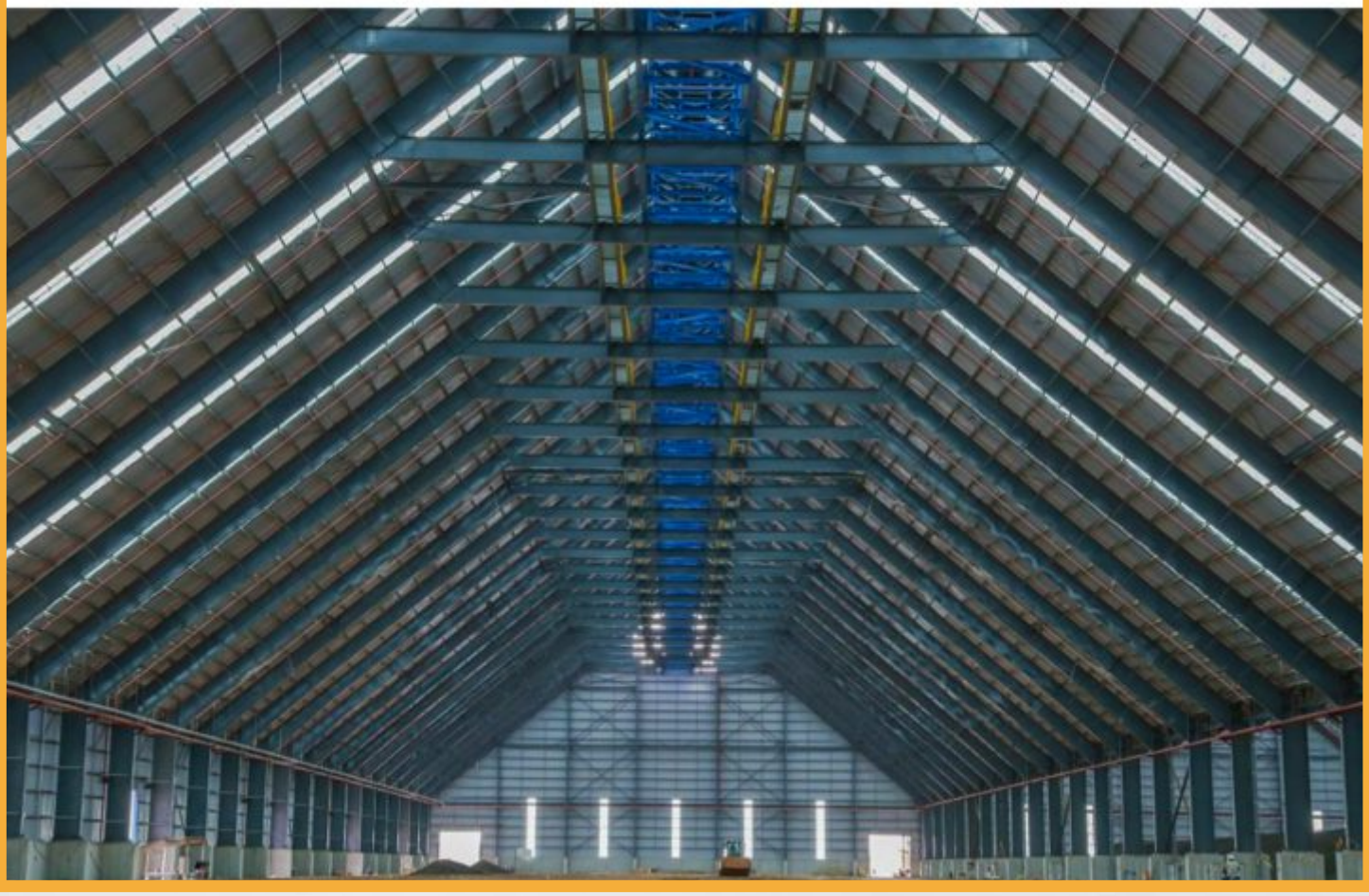
Our commitment to quality, innovation, and customer satisfaction means we don't just build structures — we build confidence.

VISION

To be the most reliable solution provider in the field of Pre-Engineered Buildings and Structural Steel projects.

MISSION

Our mission is to provide complete end to end solution to clients for their steel building requirements and enrich them with the experience at our services with utmost satisfaction.



PROJECT MANAGEMENT

The project management team is responsible for the overall project controlling, risk & for the maintenance of project management systems for the entire organization. They support all project of the organization & offers tools and other resources, such as project assistance, standards and guidelines, to all managers for smooth execution of project.

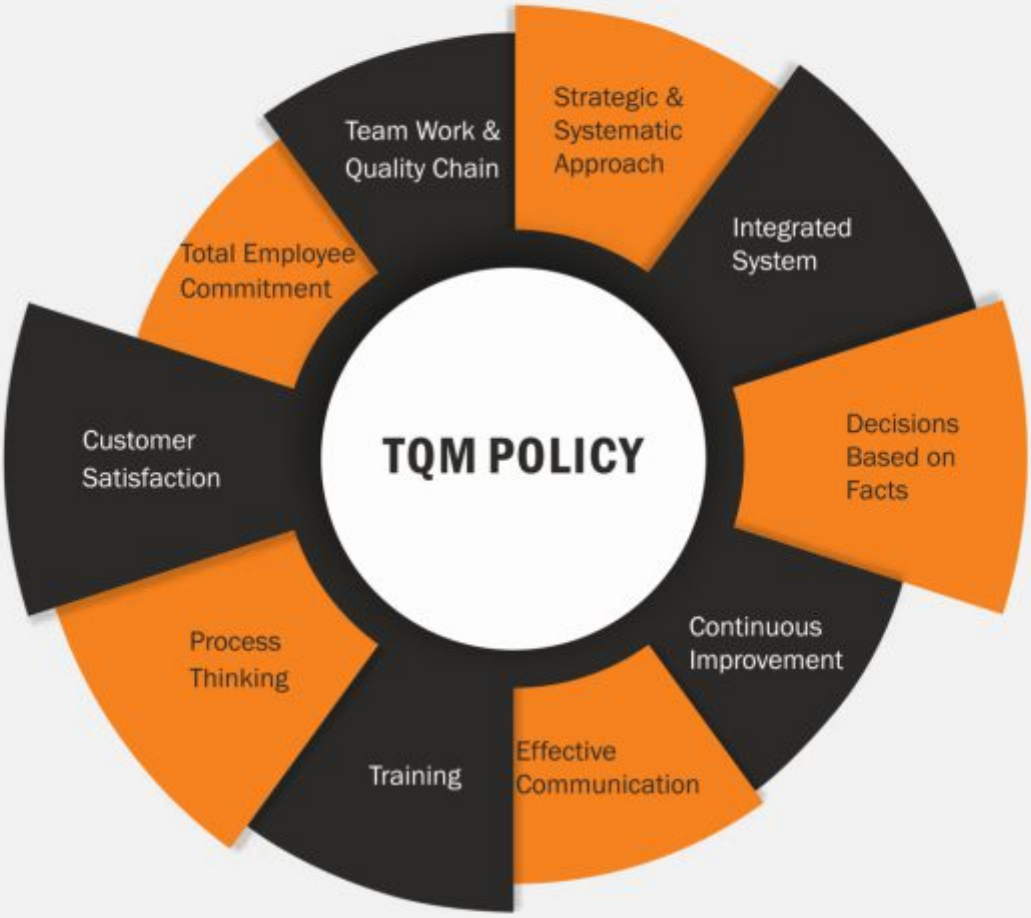
QUALITY INSPECTION

Incoming
Materlal Inspection
Visual Appearance I Dimensional I Specifications

In-Process
Inspection
DTP Test | Dimensional | Non Destructive Testing | Visuals

Final Stage
Inspection
Visual I Paint Inspections I Final Stage Inspection

TOTAL QUALITY MANAGEMENT



PDCA CYCLE

PDCA is a step management method used in business for the control and continuous improvement of processes & products.

At Aavishkar, we consider it as an effective tool which has improved our product& procedure for manufacturing it via continuous feedback from client and inter departments.

PRE-ENGINEERED BUILDING COMPONENTS

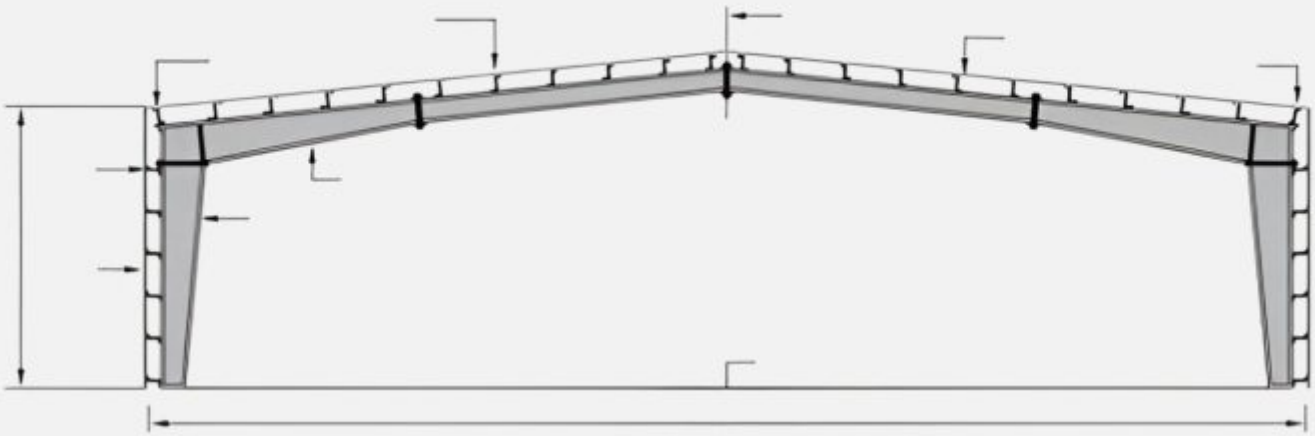
PRIMARY FRAMING MEMBERS

Primary built-up members (H-Beams) are manufactured by gas cutting of HR steel plates in required sizes, standards confirming to ASTM A572 Grade 345 Mpa. These plates of various sizes are welded together on one side by continuous welding and other side by stitch welding at regular intervals to make an H-beam. These are custom-built sections, so virtually any size of section can be made as per design requirement. Splice plates are welded at the end of different H - beam sections. These H-beam sections are assembled together by bolting the splice plates to make a complete frame assembly. The Primary members are available in high grade steel of minimum yield strength of 345 Mpa.

Premier Pre-Engineered Steel Buildings are 100% custom designed to provide maximum space utilisation, excellent strength and highest safety standards.Our basic architectural measures include:

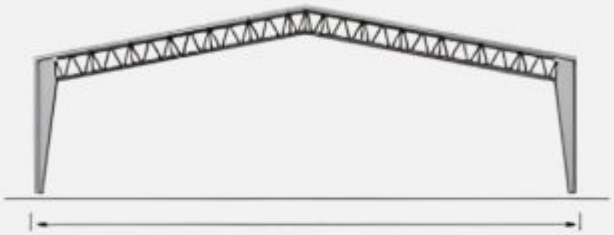
- BUILDING WIDTH : the distance from the outside of the eave strut of one sidewall to the outside of the eave strut of the facing wall
- BUILDING LENGTH : the distance between the outside flanges of endwall columns in the facing endwall
- END BAY LENGTH : the distance from the outside of the outer flange of endwall columns to the centre line of the first interior frame columns
- INTERIOR BAY LENGTH : the distance between the centre lines of two adjacent interior main frame columns, which usually range from 6m, 7.5m and 9m to 15m

The Building Height is the eave height, which is the length from the foot of the main frame column base plate to the top outer point of the eave strut and can measure up to a height of 30m. In the case of columns that are recessed or elevated from the finished floor, the eave height is the distance from the finished floor to the top of the eave strut. The Roof Slope is the angle that the roof forms with respect to the horizontal and is commonly 1/10.

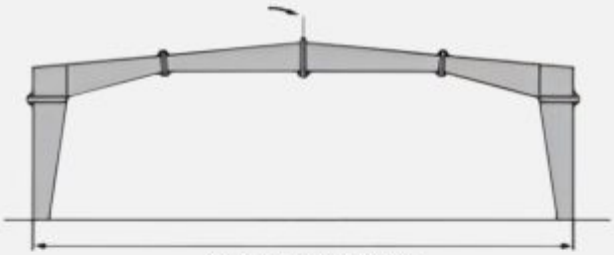


TYPICAL CROSS SECTION

BUILT-UP CURVED RAFTER (BU)

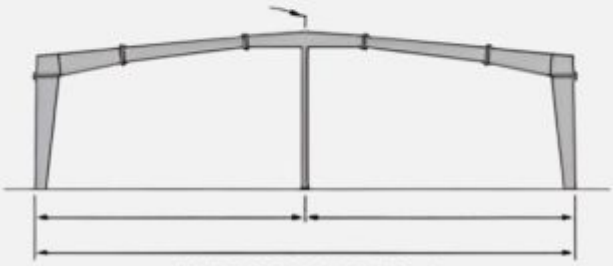


PEBHYBRID (PH)

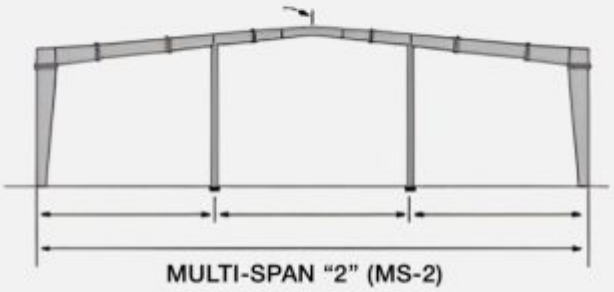


CLEAR SPAN (CS)

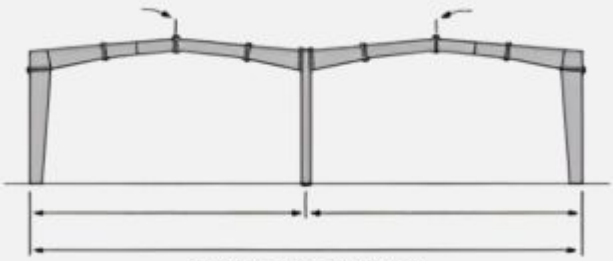
SINGLE SLOPE (SS)



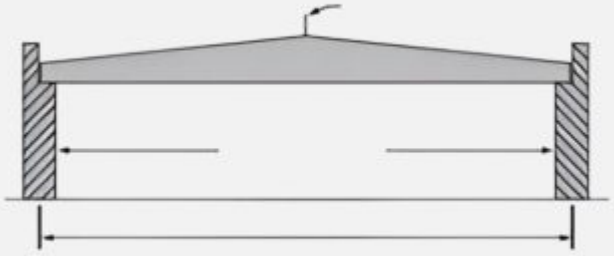
MULTI-SPAN “1” (MS-1)



MULTI-SPAN “2” (MS-2)



MULTI-GABLE (MG)



ROOF SYSTEM (RS)

COMPLETE SOLUTION

Completed Project

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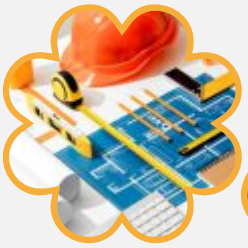
Erection



Designing & Engineering

Manufacturing

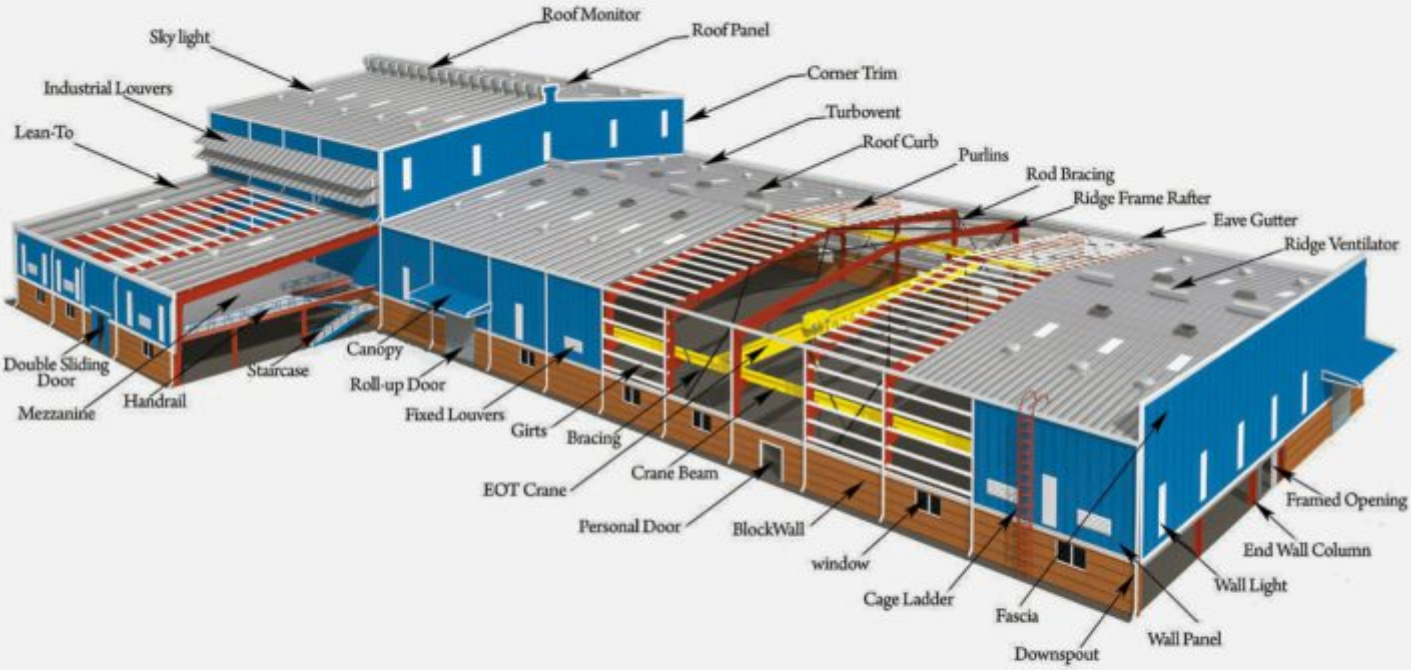
Logistic

Aavishkar Pre-engineered Buildings does far more than supply and erection of Pre Engineered metal buildings. We offers complete solutions to the customer enabling them to focus on their organization strategic goals. we undertake a single source responsibility for the project through co-ordination of all the departments viz.

- Design & Engineering
- Manufacturing
- Project management
- Logistics
- Erection

Pre-Engineered Building is a combination of built-up primary members, secondary members and roofing and wall cladding either single skin or insulated panels. Built-up members and secondary members form a well braced steel skeleton structure which is enveloped by roofing and wall cladding. Thus, we get an air tight, weather proof, energy efficient building to serve the need of customer.

Pre-Engineered Buildings are designed with the help of International Standards. These are precisely manufactured as per customer's requirement and also can be fitted with different structural accessories including mezzanines, Canopies, Fascia, Partitions, crane beams etc. to enhance the building usage and its aesthetics.



ROOFING AND WALL CLADDING PANELS

AAVISHKAR Pre-engineered Buildings Offer Roofing and Wall Cladding Panels of 0.5 mm thick and 550Mpa Galvalume material. Standard roof panels are made of Bare Galvalume material and Wall Cladding panels are of colour coated Galvalume material. Panel paintfilm thickness is 25 microns on the exterior weather face and 5-7 microns of PU compatible epoxy primer on the interior face. The sheeting material is with hot dip Metallic coating of Galvalume 150 gm/m2 total,AZ 150 as per ASTM A792 or AS 1392, and wall coated with 25 microns regular modified polyester paint system applied on Zincalume.

AAVISHKAR offers a choice of different- 2 colours in wall cladding panels. These Roofing and wall cladding panels have excellent corrosion and weather resistance longer spanning capability, Thermal efficiency, long durability & safety.

BUILDINGS WITH MEZZANINES

AAVISHKAR Standard Mezzanine system is a combination of profiled GI steel deck, built-up primary beams, mezzanine joists and intermediate support columns. Built-up beams span in lateral directions and mezzanine joists in longitudinal directions bolted to the top flange of beams. A concrete slab is cast on the steel deck as a finished surface. Shear buttons are provided on the deck panel for proper bonding of concrete with deck panel. Steel checkered plates can also be used as top surface.

Mezzanine systems are used in Industrial buildings for additional storage space and office space requirement in building itself .

Mezzanine is a cost-effective and time efficient way to create additional storage space in any new or existing building. Mezzanines create additional floor space by going up not out. saving you the considerable cost of new construction .The prefabricated design also saves time since all components arrive prefabricated and ready for immediate installation.

MULTI- STOREYED BUILDING

The use of Pre-Engineered Steel building technology in multi-storeyed construction is very popular in western countries. The technological improvement in multi-storeyed construction technology and due to the advantage of lesser time requirement in construction, usage of Pre-Engineered Steel building is becoming popular in multi-storeyed construction in India now these days .

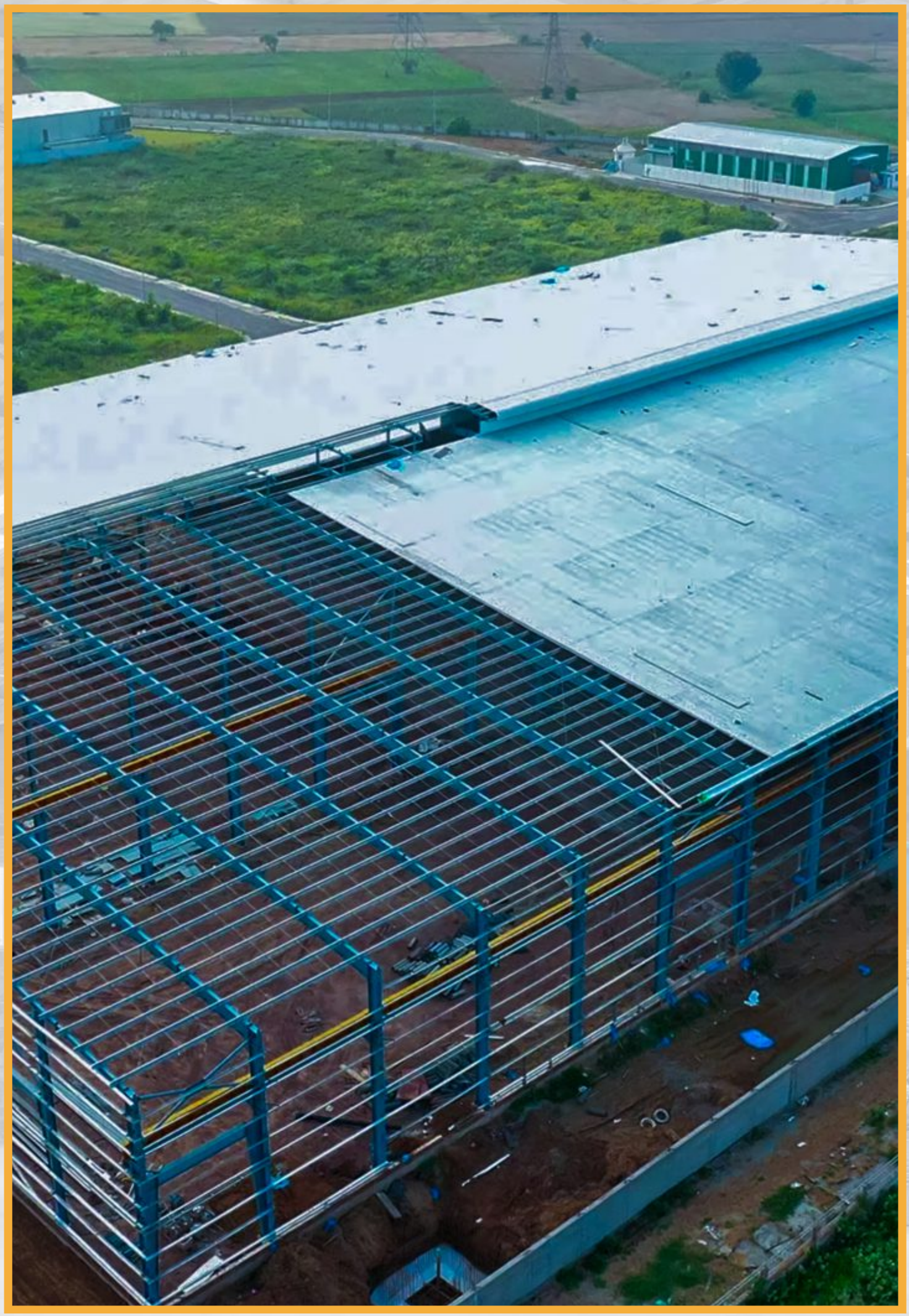
We offers complete solution for designing, manufacturing and execution of these steel multi-storeyed buildings as per international quality standards.

ADVANTAGES OF STEEL MULTI-STOREYED BUILDING

- Speedy and time-savy construction than RCC.
- Smooth and hassle free execution at site.
- Larger spans without intermediate columns can be effectively achieved in comparison to RCC.
- Lighter Foundation required for Steel Buildings due to less weight than RCC, thus saving on Foundation cost.
- Greater ease of expansion and modification in Steel Buildings
- Earthquake resistant design.

ADVANTAGE OF PRE ENGINEERED BUILDING

- Super fast construction in comparison to conventional construction methods.
- Cost effective and economical building solution.
- Column less large clear spans can be easily achieved with effective costing .
- Pre-Engineered building offers great flexibility in terms of Future expansions and modifications.
- Due to manufacturing under factory controlled environment, highest Quality standards are maintained.
- Long durability and Low maintenance cost.
- Pre-Engineered building construction is green building construct ion due to recyclable properties of steel.
- Hassle free construction for client due to single source responsibility of Pre-Engineered building supplier.



TURNKEY SOLUTIONS

Aavishkar Pre-engineered building provide turnkey solutions to our clients including civil and Structural PEB work. With our expertise and vast experience in the construction industry would like to render unique services, which would facilitate our clients to execute the project in a professional manner.

We undertake execution of civil structural construction works right from foundation stage to the completion stage, which includes all kinds of concrete and brick constructions such as concrete foundations, concrete columns, brick masonry, and flooring required to complete a building in totality.

SCOPE OF WORK:

- **Foundations**
- **Substructures**
- **Super Structures Masonry Works & Plaster**
- **Flooring Work**

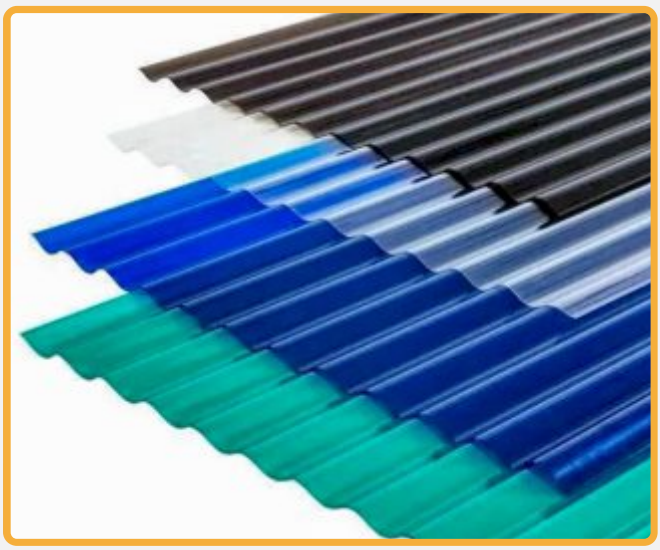
ACCESSORIES

TURBINE VENTILATOR

SELF DRILLING SCREW

HIGH TENSILE FASTENERS

POLYCARBONATE SHEETS



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