Engineering precision, delivering perfection

AKENG TECTON EPC PVT.LTD.

- **Faster** *On Time Delivery*
- **Smarter** *Innovative Solutions*
- **Customised** *As Per Your Needs*
- **Pre-Engineered** *For Better Tomorrow*

We Provide Commercial / Industrial PEB Services

with **SAFETY FIRST POLICY**





Lower Cost
Better Value



Faster Construction
Save Time



High Durability
Built to Last

Delivering PEB Buildings with

Assured Quality and Safety

Design | Manufacturing | Supply | Erection

www.akengtectonepc.com | info@akengtectonepc.com | +91 9867901388



Fast Operations :

Complete manufacturing and deployment happen within 6 to 12 weeks, accelerating operational timelines.



Cost-Efficiency:

Tapered structural beams require up to 30% less total steel weight compared to traditional uniform-profile heavy steel beams.Large Clear



Architecture:

Easily expandable by removing end-wall framing panels and bolting on additional primary frame sequences in the future.



Spans:

Enables clear structural open spans of up to 90 meters without interrupting central support columns, maximizing internal floor space.

AKENG TECTON EPC PVT. LTD.

Engineering precision, delivering perfection

MISSION

Engineering and Manufacturing of Superior PEB Solutions with speed and precision, delivering maximum value to our clients, shareholders, and staff.

VISION

"To be the global benchmark in pre-engineered steel solutions, transforming modern infrastructure through rapid execution, engineering excellence, and sustainable building practices."

VALUES

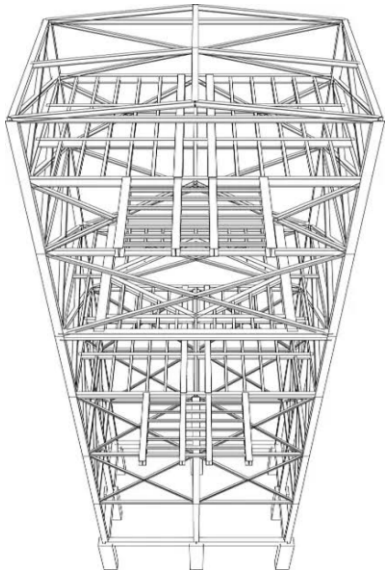
Excellence Precision Engineering
Commitment to exact specifications, zero-defect manufacturing, and structural integrity.

Uncompromising Quality
Adherence to international building codes, premium raw materials, and rigorous testing.

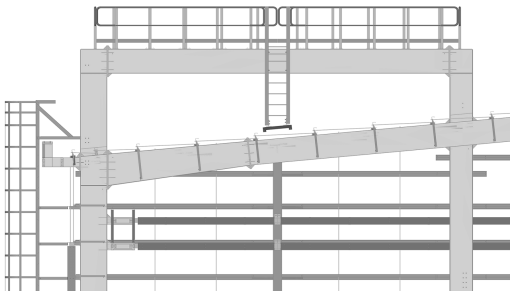
Safety First
Prioritizing a zero-harm environment across the manufacturing plant and construction sites.

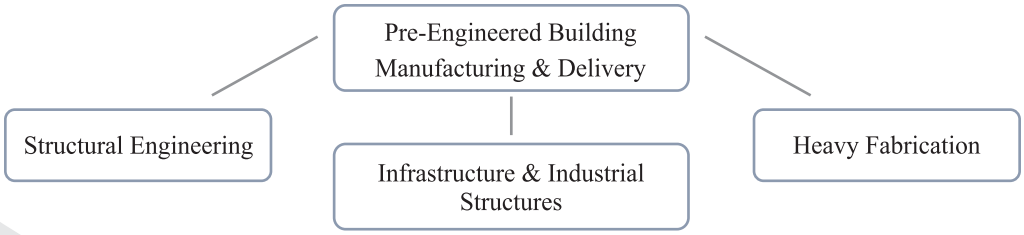
ABOUT US

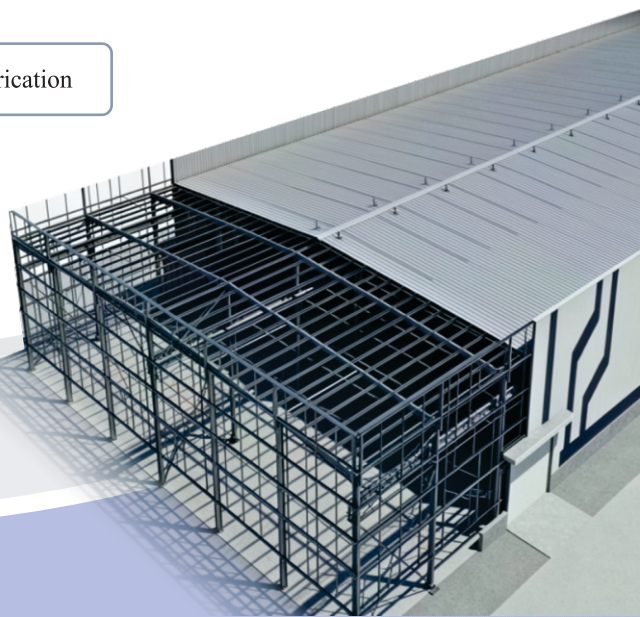
AKENG Tecton Epc. Pvt. Ltd. is a premier Pre-Engineered Building (PEB) and heavy steel structure manufacturing company specializing in the design, fabrication, and execution of advanced structural solutions. As your trusted engineering and construction partner, we combine cutting-edge Scanning technology with technical expertise to deliver projects from concept to completion.We take complete ownership of every asset we build by leading professional engineering disciplines, managing complex supply chains, and mitigating structural risks.



AKENG Tecton Epc. Pvt. Ltd. delivers high-precision, durable, and cost-effective steel solutions for core industrial and commercial sectors, including:Industrial Infrastructure: Refineries, power plants, and steel mills.Environmental Facilities: Water, wastewater, and effluent treatment plants.Hi-Tech Frameworks: Specialized fabrication, erection, and maintenance of intricate steel structures.Commercial Developments: Large-scale real estate, warehousing, and PEB industrial sheds.







SERVICES

AKENG delivers premier Project and Construction Management Services by leveraging deep contractor expertise to seamlessly guide clients from concept to completion. We act as an extension of your organization, managing architects, engineers, and main contractors to guarantee absolute control over Cost, Quality, Time, and Safety.Contractor Insight: Direct market know-how ensures a practical, no-nonsense approach.Unified Management: Single point of contact covering pre-design through project completion.Strategic Oversight: Expert selection and management of design and construction teams.







* **Full Turnkey EPC Solutions**
* **Engineering & Design**
* **Procurement & Supply**
* **Manufacturing & Fabrication**
* **PEB & Structural Steel Erection**
* **Project & Construction Management**
* **QA/QC & Inspection**
* **HSE & Safety Management**
* **Testing & Commissioning Co-ordination**
* **Handover & Completion**
* **Operation & Maintenance Support**
* **Electrical & Mechanical Works through Specialized partners**
* **Single-Point Project Responsibility from Engineering to Handover**

Cost Effeciency | Customization | Durability | Rapid Construction

Design Management

We manage the Design process for the Owner guiding him in seeking the appropriate Architect and specialty Engineers (Structural, Electrical, Mechanical, Other), managing and coordinating their activities and deliverables while ensuring design coordination, construction compatibility and efficiency through the various stages of the design process. (Concept, Preliminary.



Product Management

Our Pre-Engineered Building (PEB) Product Management division drives innovation by delivering high-quality, customizable, and cost-effective structural solutions tailored to modern industrial infrastructure. We manage the entire product lifecycle of our PEB offerings, seamlessly bridging the gap between advanced architectural engineering, precision manufacturing, and rapid on-site assembly. By collaborating closely with design teams and clients, our product managers ensure every structure optimizes material efficiency, reduces construction timelines, and meets stringent global safety standards. From mega-warehouses and high-rise commercial complexes to specialized industrial plants, we focus on delivering sustainable, scalable, and value-engineered steel building systems that maximize our clients.



Complete Project Management

AKENG delivers comprehensive, end-to-end Pre-Engineered Building (PEB) project management by seamlessly integrating design, procurement, and execution. The process begins with advanced engineering and optimization, ensuring that structural designs meet precise technical specifications while maximizing cost efficiency. AKENG strictly oversees the entire supply chain, managing the sourcing of high-grade steel and fabricated components to guarantee quality control and timely delivery to the site. During the construction phase, their dedicated project managers supervise erection, safety compliance, and scheduling, minimizing field errors and operational downtime. By maintaining clear stakeholder communication and proactive risk management, AKENG ensures that every PEB project is delivered on time, within budget, and to the highest industrial standards.



Construction Management

We take on the overall management of the construction of the project replacing the need for a Main Contractor thereby eliminating his margin which is considerably higher than the Construction Management fee.

The project is divided into several trade packages and fully managed and coordinated by us. This option provides a "Construction Arm" for the Owner yielding him significant savings and flexibility with a higher level of control on Cost, Time and Quality. It also allows Fast-Tracking" projects allowing construction works to start before the



PEB Manufacturing, Supply and Erection

We take on the overall management of the construction of the project replacing the need for a client thereby eliminating his margin, At AKENG, we recognize that excellence in service delivery is directly driven by the quality of our talent. Our team comprises highly motivated, results-oriented professionals who possess extensive, hands-on expertise in production and project management.

In addition to specialized production management capabilities, our personnel bring a diverse wealth of experience acquired across complementary sectors.

Characterized by energy, initiative, and a proactive mindset, AKENG's professionals are dedicated to maximizing value. We consistently strive to secure optimal outcomes for our clients, the project stakeholders, and the end users on every engagement.

The project is divided into several trade packages and fully managed and Co-ordinated by us. This option provides a "Construction Arm" for the Owner yielding him significant savings and flexibility with a higher level of control on Cost, Time and Quality.

Factory Manufacturing QC
(Making the Components)

Foundation & Bolts: Surveying anchor bolt coordinates and vertical alignment before steel installation.

Plumb & Alignment: Monitoring column verticality and structural geometry using total stations to meet MBMA tolerances.

Torque Testing: Ensuring high-strength bolts (Grade 8.8/10.9) are tightened to correct tension using calibrated torque wrenches.

Weatherproofing:
Inspecting roof/wall sheeting overlaps and sealant application to prevent water leaks.

On-Site Erection QC
(Assembling the Building)

Material Check: Verifying mill certificates and steel grade (Grade 50 / 345 MPa) for strength.

Welding Inspection: Conducting visual and Non-Destructive Testing (NDT) like Ultrasonic or Radiography on high-stress joints.

Precision Fabrication: Using CNC machinery to match exact shop drawings and checking bolt-hole alignments.

Coating & Paint: Measuring surface roughness after sandblasting and checking Dry Film Thickness (DFT) of the paint.



Advantages PEB :

Pre-Engineered Buildings (PEBs) are structural systems where steel components are custom-designed and high-precision fabricated in a factory, then shipped and bolted together on-site. This streamlined approach reduces total construction time by up to 50% compared to conventional brick-and-mortar or standard structural steel builds.



Core Components of PEB :

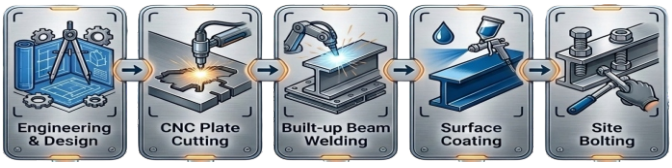
Every pre-engineered building is comprised of four interconnected component layers :

Primary Framing:
Heavy-duty, tapered rigid steel columns and rafters that transfer the main structural loads to the foundation.

Secondary Framing:
Cold-formed structural loops like purlins (roof support) and girts (wall support) that stabilize the primary frame.Roof & Wall Cladding: Insulated sandwich panels or single-skin galvanized steel sheets providing thermal insulation and weather protection.

Accessories:
Integrated functional additions including turbo ventilators, crane beams, skylights, windows, and mezzanine systems.

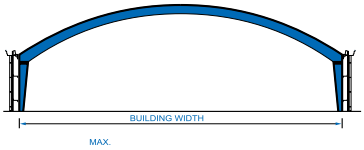
Manufacturing a PEB relies on off-site, tightly regulated factory assembly lines to eliminate material waste and human error:



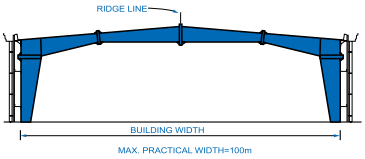


Standard Framing System :

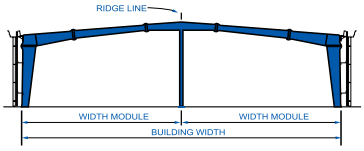




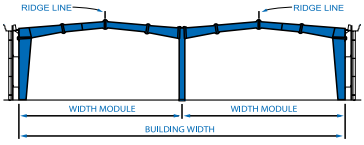
Built-Up Curved Rafter (BU)



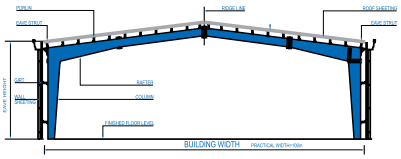
Clear Span (CS)



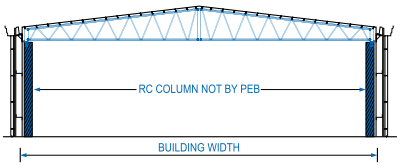
Multi-Span "1" (MS-1)



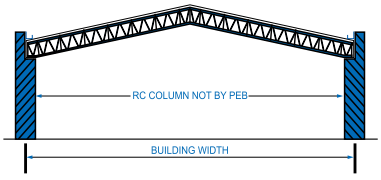
Multi-Gable(MG)



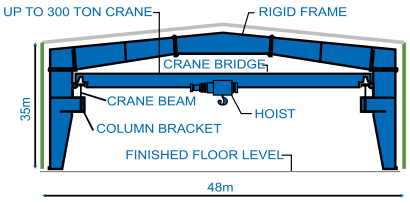
Typical Cross Section



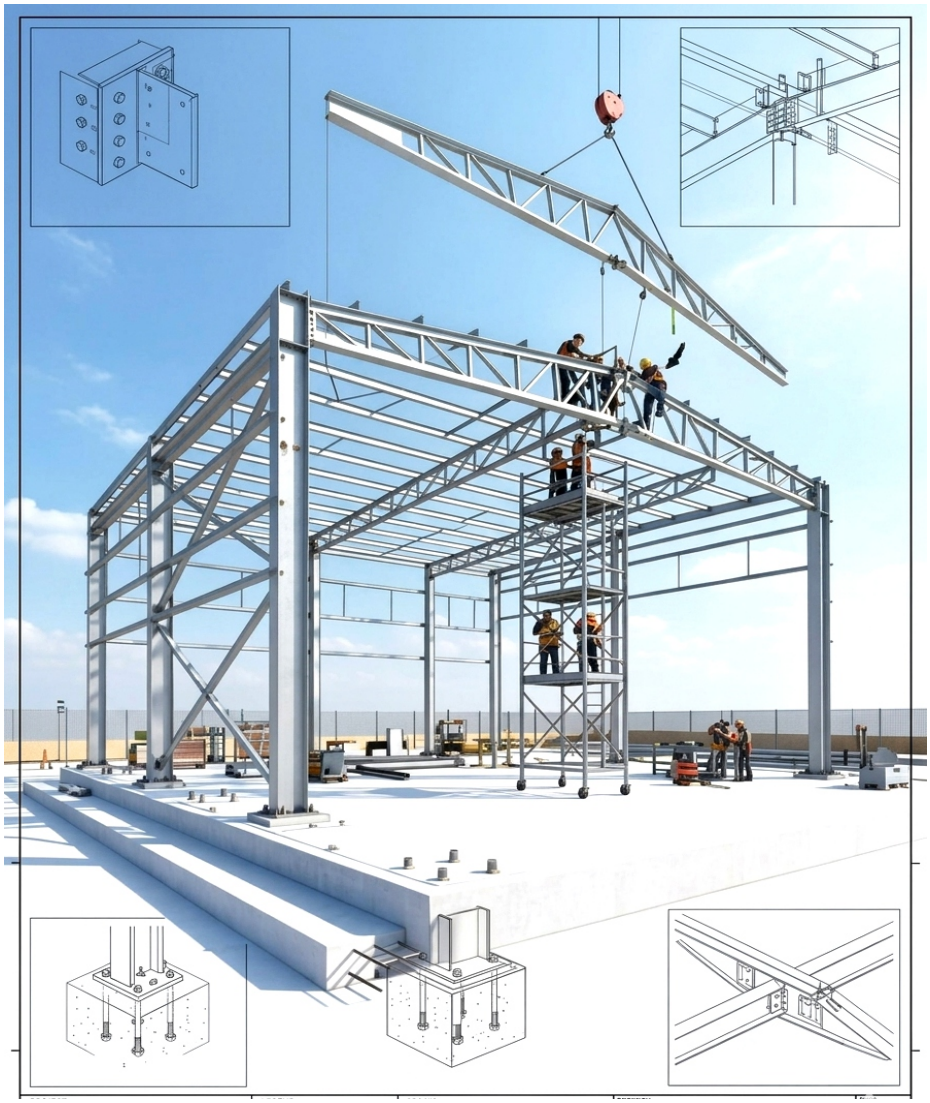
PebTruss (PT)

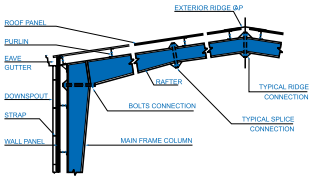


Roof System (RF)

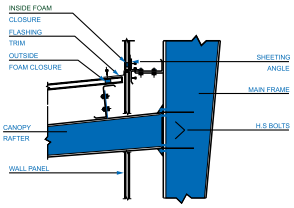


Sub-Structural Framing System :

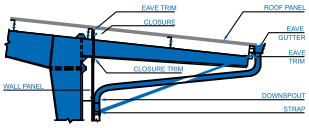




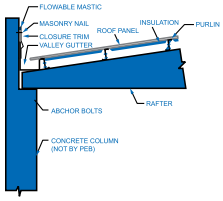
Rigid Frame with By-Pass Girts



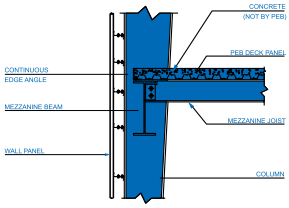
Canopy



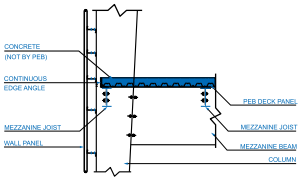
Sidewall Roof Extension



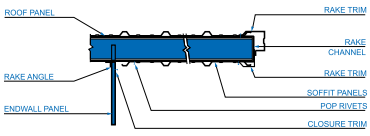
Roof System with Insulation



Mezzanine Joist Connection to Mezzanine Beam

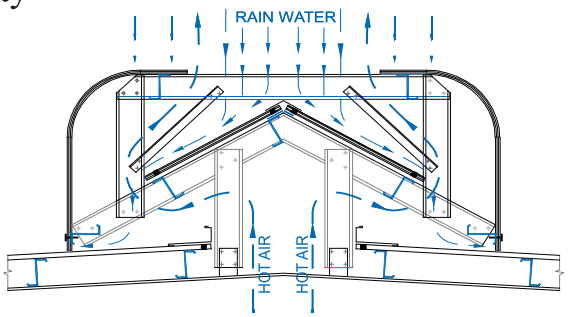


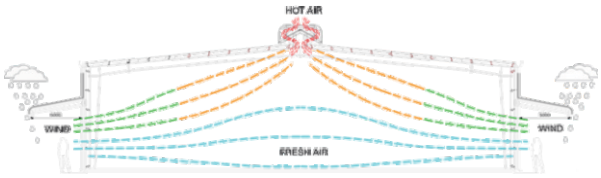
Mezzanine Beam Connection to Main Frame Column



Endwall Roof Extension with Soffit

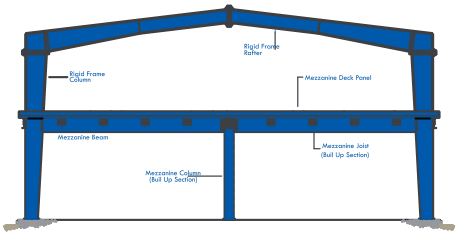
We integrate advanced crane systems into our Pre Engineered Buildings to enhance operational efficiency and ensure smooth, safe and reliable material handling. These systems are ideal for industrial and warehouse environments, where heavy loads need to be moved quickly and with precision.By incorporating crane systems into the building design, we help businesses maximize floor space, reduce manual labor, and improve overall safety within the facility





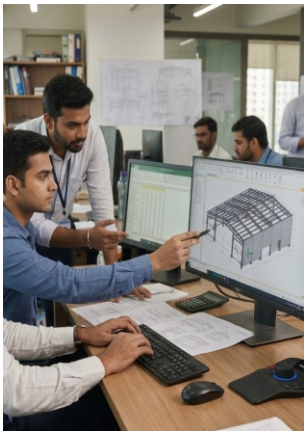
At AKENG our mezzanine floors are smartly designed elevated platforms built within steel structures, ideal for optimizing interior space. Whether it's for additional storage, office space, or operational zones, mezzanines offer a flexible and cost-effective way to expand usable floor area without altering the building footprint.

We provide high-quality built-up or hot-rolled mezzanine beams, combined with precisely engineered joists and metal deck systems.

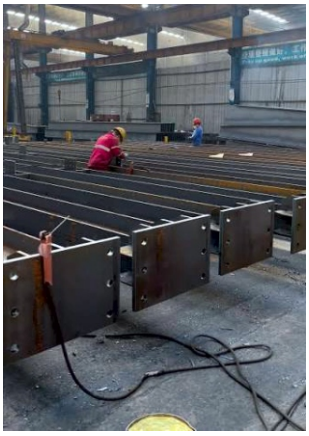


Finished Floor Level

Dedicated Design



Fabrication



Coating / RT / QC



Transportation



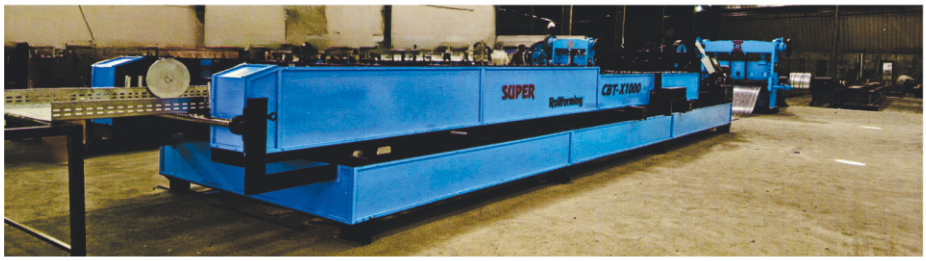
Site Erection



Manufacturing Facility & Machinery :

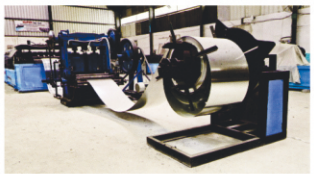
Our production line utilizes an advanced, high-capacity Roll Forming Machine equipped with multi-stage roller stations and continuous forming capabilities. This guarantees flawless profile consistency for large-scale industrial orders.

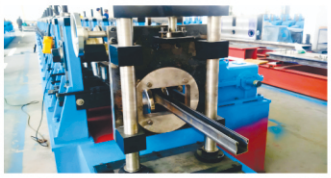




















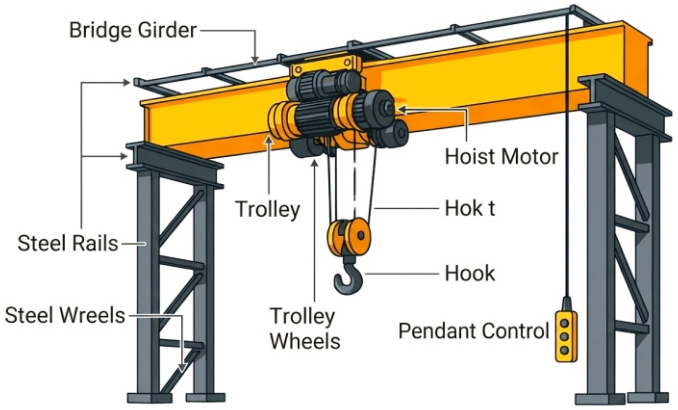
AKENG TECTON also undertakes Manufacturing & Installation of Automatic & Semi Automatic EOT Crane for Warehoues, Logistics and Manufacturing units.

We are specializes in designing, fabricating, engineering, and servicing heavy-duty overhead lifting systems used for industrial material handling. We produce highly engineered systems consisting of bridge beams, hoists, trolleys, end trucks, and advanced control panels to safely transport heavy loads within warehouses, factories, construction sites, and steel yards.

Hoisting :
Raising and lowering the load vertically.

Cross Travel :
Moving the hoist and trolley horizontally across the bridge span.

Long Travel :
Moving the entire bridge structure longitudinally down the runway rails.



Single Girder EOT Cranes:
Feature a single main bridge beam. These are cost-effective, lightweight, and ideal for standard-duty lifting operations, typically accommodating capacities up to 10–15 tons.

Double Girder EOT Cranes:
Constructed with two main bridge beams. They provide much higher lifting capacities (often up to 70 tons or even 300+ tons for heavy engineering) and greater hooks heights for heavy-duty industrial tasks.Underslung

EOT Cranes:
Suspended beneath roof structures. They are designed primarily for facilities with lower ceiling heights or strict structural constraints.

Broad Commercial Applications :

PEBs dominate structural environments where fast setup and wide clear floors are required:



Industrial :

Logistic warehouses
High-capacity manufacturing facilities
Heavy-Machinery Factories.



Infrastructure:

Metro/ Railway Transit Shelters
Aircraft hangars
Community sports stadiums



Commercial:

Multi-story, Mezzanine Office spaces,
Retail Showrooms with glass facades,
large cold-storage units.



Fast Operations :
Complete manufacturing and deployment happen within 6 to 12 weeks, accelerating operational timelines.

Cost-Efficiency:
Tapered structural beams require up to 30% less total steel weight compared to traditional uniform-profile heavy steel beams.Large Clear

Spans:
Enables clear structural open spans of up to 90 meters without interrupting central support columns, maximizing internal floor space.

Architecture:
Easily expandable by removing end-wall framing panels and bolting on additional primary frame sequences in the future.

Our Concern :

AK ENGINEERING

DESIGN & BUILD

www.akengineering.co.in

Govt. of Maharashtra
Directorate of Maharashtra Fire Service
Vidyanagri, Hans Bhugra Marg, Santacruz (East),
Mumbai – 400 098, Tel-022-26677555, Fax-022-26677666
www.mahafireservice.gov.in

FORM N
[(See section 9 (3) and rule 14]
License to act as a License Agency for the purpose of Fire Prevention and Life Safety Measure

License No. MFS / LA / F-517 / D- 486 Date: 28.09.2024

License is hereby granted under the provisions of sub-section (3) of section 9 of the Maharashtra Fire Prevention and Life Safety Measure Act, 2006 (Mah. III of 2007) to **M/s. A K Engineering** having their registered office at **345, Hussain Tekri, Golibar Rd, Khar (E), Mumbai 400051** and their contact details are Office Number: 8652223567 and Email ID: gufran@akengineering.co.in with PAN registration No. CJRPS2232Q and GST No. 27CJRPS2232Q1ZC to act as a Licensed Agency for the purpose of the said Act for execution of the fire prevention and life safety measures in relation to

1. Fire Fighting and Sprinkler System: Class D
2. Detection and Fire Suppression System: Class D

M/s. A K Engineering shall not issue Form A or Form B under sub-section (3) of section 3 regarding the compliance of the fire prevention and life safety measures or maintenance thereof in good repair and efficient condition, without there being actual such compliance or maintenance failing which license granted / renewed shall be suspended or cancelled as per sub section (4) of section 9 and shall be liable for penalty under section 36 of the Act.

Subject to the provision of sub section (4) of section 9 of the said Act and rule 14 of the Maharashtra Fire Prevention and Life Safety Measures Rules, 2009, the license will be valid for a period from **28.09.2024 to 27.09.2026**

Asst Director (S S Warick)
Director
Maharashtra Fire Service

Digital Signature of Authorized Person to sign Form A or Form B

Note:
* in absence of digital sign of license holder (responsible to issue Form A or Form B) the license will be treated as invalid.



अनुज्ञप्ती क्र. १०३३१००१३७१००३२०२०

"नमुना एल - १"
(नियम २८ पहा)

महाराष्ट्र शासन
उद्योग, ऊर्जा व कामगार विभाग

विद्युत ठेकेदारांना अनुज्ञप्ती

(शासकीय अधिसूचना, उद्योग, ऊर्जा व कामगार विभाग क्र. - मुविनि.२०१९/प्र.क्र.८५/ऊर्जा-५ दिनांक:२ ऑगस्ट २०१९ द्वारे प्राधिकृत)

महाराष्ट्र शासनाद्वारे निर्गमित करण्यात आलेल्या महाराष्ट्र विद्युत अनुज्ञापक मंडळ नियम, २०१७ मध्ये उल्लेख केलेल्या शर्तींच्या अधीन राहून महाराष्ट्र राज्यातील सर्व विद्युत दाबस्तरावरील विद्युत संचमांडणीची कामे पार पाडण्याकरीता मे. अे.के. इंजिनिअरींग, मुंबई यांना याद्वारे प्राधिकृत करण्यात येत आहे.

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शासकिय कर्मचारी वसाहत,
इमारत क्र. ब ६२ च्या समोर,
बांद्रा (पूर्व), मुंबई - ४०००५१
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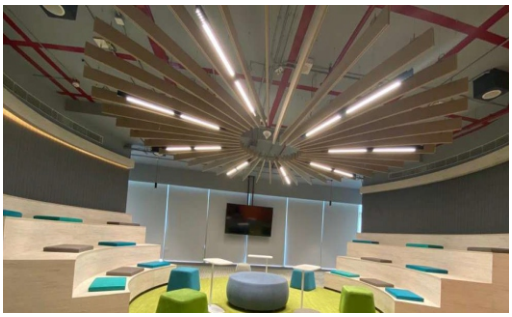
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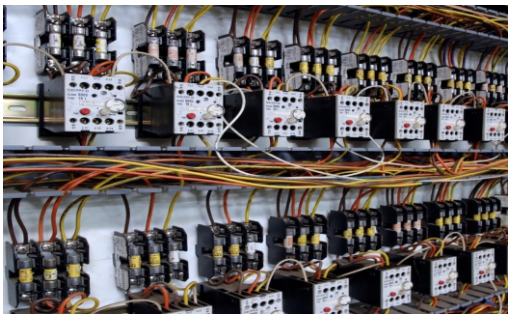












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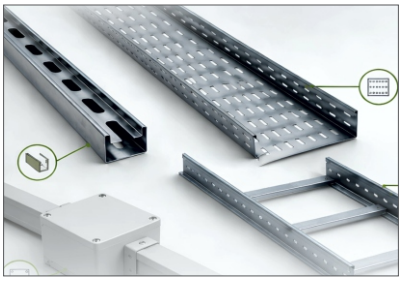
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