

A stylized illustration of a large industrial building with yellow and grey corrugated metal siding. A large white roll-up door is visible. In the foreground, there is a yellow and red truck on the left, a worker in a hard hat and safety vest near the door, and various industrial equipment like a generator and a small white trailer on the right. The background shows a clear blue sky and distant mountains.

Precision Engineering. Built to Last.

We are a leading structural fabrication and construction company delivering turnkey industrial, commercial, and infrastructure solutions across India. With state-of-the-art manufacturing facilities, certified welding expertise, and a commitment to engineering excellence, we transform architectural visions into enduring steel realities.

Pre-Engineered Building Systems

Our Pre-Engineered Building (PEB) systems combine structural efficiency with rapid deployment, offering superior performance for warehouses, factories, showrooms, and logistics facilities. Engineered using advanced software and fabricated with precision, these buildings deliver optimal strength-to-weight ratios while reducing construction timelines by up to 40%.



Clear Span Design

Column-free interiors up to 60 metres wide, maximising usable floor space and operational flexibility for material handling and production lines.



Tapered Sections

Variable depth primary frames optimised for stress distribution, reducing steel consumption by 20-30% compared to conventional systems.



Rapid Installation

Factory-fabricated components with bolt-together assembly enable completion within 8-12 weeks from foundation to commissioning.

Structural Advantages

- High-tensile steel (Grade S355 / ASTM A992) for superior load capacity
- Wind load resistance up to 200 km/h as per IS 875
- Seismic-resistant design complying with Zone V requirements
- Expansion joints for thermal movement accommodation
- Hot-dip galvanisation with 120 microns zinc coating

Cost & Performance Benefits

- 30-40% cost reduction versus RCC construction
- Minimal foundation requirements due to lighter dead loads
- Easy future expansion with modular bay additions
- 50+ year design life with proper maintenance
- Energy-efficient roof insulation reducing HVAC costs

Structure Fabrication Excellence

Our ISO 9001:2015 certified fabrication facility spans 25,000 sq.ft and houses CNC-controlled equipment capable of processing 500 tonnes of structural steel monthly. We fabricate beams, columns, trusses, frames, and custom metalwork to exact specifications, ensuring dimensional accuracy within $\pm 2\text{mm}$ tolerance levels.

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| 01 | 02 | 03 |
| Material Procurement Sourcing certified IS 2062 / ASTM A36 steel from SAIL, Tata Steel, and JSW with verifiable mill test certificates for traceability. | CNC Cutting & Drilling Computer-controlled plasma cutting and multi-spindle drilling machines ensure precision hole alignment and edge quality. | Welding & Joining ASME-certified welders perform GMAW, SMAW, and SAW processes following WPS/PQR documentation with 100% visual inspection. |
| 04 | 05 | |
| Surface Treatment Shot blasting to SA 2.5 standard followed by epoxy primer and polyurethane topcoat application in controlled spray booths. | Quality Assurance Ultrasonic testing, dye penetrant inspection, and dimensional verification before dispatch with comprehensive QC documentation. | |
| Welding Standards <ul style="list-style-type: none">AWS D1.1 structural welding codeIS 816 welding procedure specificationsCertified welders with ASME IX qualification100% NDT on critical welds | Material Grades <ul style="list-style-type: none">IS 2062 E250 / E350 structural steelASTM A992 for high-strength sectionsIS 1239 hollow sectionsWeathering steel ASTM A588 | Machinery & Equipment <ul style="list-style-type: none">CNC plasma cutting table (6m × 2m)Hydraulic press brake (200T capacity)SAW welding systemsShot blasting booth (8m length) |

Building Construction Services

From foundation to finishing, we execute complete building projects across residential, commercial, and industrial sectors. Our turnkey construction approach integrates design, procurement, execution, and handover under a single-point responsibility framework, ensuring timeline adherence and cost predictability for our clients.

Residential Construction

Villas, apartment complexes, and gated communities built with earthquake-resistant RCC framing, premium finishes, and sustainable design principles.

Commercial Buildings

Office complexes, retail spaces, and mixed-use developments featuring contemporary architecture, intelligent building systems, and Grade A specifications.

Industrial Facilities

Manufacturing plants, warehouses, and logistics hubs engineered for heavy machinery loads, material flow optimisation, and operational efficiency.

Execution Excellence

- Dedicated project managers with real-time progress tracking
- PERT/CPM scheduling with milestone-based delivery
- Material procurement from authorised dealers only
- On-site quality control labs for concrete testing
- BIM-enabled clash detection and 3D coordination
- Final handover with as-built drawings and O&M manuals

Safety Compliance

- OHSAS 18001 occupational health & safety management
- Daily toolbox talks and hazard identification programs
- Personal protective equipment mandatory for all workers
- Scaffolding inspection and fall protection systems
- Fire safety equipment and emergency evacuation plans
- Zero-accident workplace culture with ongoing training

Cladding & Glazing Solutions

Transform building exteriors with our high-performance cladding and glazing systems that combine aesthetic sophistication with functional excellence. We install aluminium composite panels, sandwich panels, curtain wall systems, and architectural glazing designed to withstand harsh weather conditions while delivering exceptional thermal and acoustic performance.



Aluminium Composite Panels

Fire-rated ACP cladding in wood, stone, metallic, and solid finishes with 4mm thickness and polyethylene/FR core for modern façade aesthetics.



Insulated Sandwich Panels

PIR/PUF core panels (50-150mm thickness) offering U-values as low as 0.22 W/m²K for superior thermal insulation in cold storage and cleanrooms.



Curtain Wall Systems

Stick-built and unitised curtain walls with structural silicone glazing, pressure-equalised rainscreen design, and wind load capacity up to 3.5 kPa.



Architectural Glazing

Low-E double-glazed units, laminated safety glass, and ceramic frit patterns for solar heat gain reduction and glare control with SHGC < 0.25.

Performance Benefits

- **Thermal Efficiency:** Reduce air-conditioning loads by 35-45% with insulated panels and low-E glass
- **Acoustic Insulation:** STC ratings up to 42 dB for noise reduction in urban environments
- **Weather Resistance:** Water-tight joints tested to 600 Pa static pressure as per ASTM E1105
- **Fire Safety:** A2 class non-combustible cladding meeting NBC requirements
- **Durability:** PVDF coatings with 20-year colour warranty against fading and chalking



Stainless Steel Fabrication Works

Elevate architectural spaces with our precision-crafted stainless steel installations. We specialise in railings, balustrades, gates, grilles, handrails, and decorative metalwork fabricated from premium SS 304 and SS 316 grades with mirror, satin, and brushed finishes. Our corrosion-resistant solutions are ideal for coastal areas, hospitals, food processing units, and luxury residences.

SS Railings & Balustrades

Sleek glass-channel railings, cable wire systems, and ornamental designs complying with IS 1261 load requirements of 1.5 kN/m for residential and commercial applications.

Entrance Gates & Grilles

Custom-designed main gates, window grilles, and security barriers with motorised automation options, powder coating, and anti-fingerprint surface treatments.

Surface Finishing

Mirror polish (8K finish), satin (4 finish), hairline, bead blast, and PVD colour coating processes for architectural-grade appearance and maintenance ease.

Corrosion Resistance & Grades

Stainless steel's chromium-rich composition forms a passive oxide layer that self-heals when scratched, providing exceptional resistance to rust, staining, and chemical attack. We select appropriate grades based on environmental exposure:

- **SS 304 (18-8 grade):** Standard austenitic steel for indoor applications, balconies, and moderate environments with excellent formability
- **SS 316 (Marine grade):** Molybdenum-enhanced composition for coastal areas, chemical plants, and aggressive atmospheres with superior pitting resistance
- **SS 202 (Economic grade):** Manganese-substituted variant for decorative non-structural elements in sheltered locations

All fabrication joints are TIG-welded with matching filler rods, followed by pickling and passivation treatment to restore the protective chromium oxide layer for maximum longevity.



Solar Panel Mounting Structures

Harness clean energy with our engineered solar mounting systems designed for maximum electricity generation and structural integrity. We fabricate ground-mount, rooftop, and elevated structures using hot-dip galvanised steel or aluminium extrusions, engineered to withstand wind speeds up to 180 km/h and accommodate panel angles from 10° to 30° for optimal solar exposure across Indian latitudes.



Site Assessment & Design

Solar irradiation analysis, shadow mapping, structural load calculations, and tilt angle optimisation using PVsyst and AutoCAD tools.



Structure Fabrication

CNC-cut channels, purlins, and mounting rails with pre-drilled holes for rapid field assembly and precise panel alignment.



On-Site Installation

Foundation casting, anchor bolt fixing, structure erection, and module mounting with weatherproof fasteners and earthing.



Electrical Integration

Cable tray routing, DC combiner boxes, inverter installation, and grid synchronisation for turnkey solar plant commissioning.

Engineering Specifications

- Wind load design as per IS 875 Part 3 for 50-year return period
- Hot-dip galvanisation to IS 2629 with 80-micron zinc coating
- Adjustable tilt mechanisms for seasonal angle optimisation
- East-west tracker compatibility for bifacial modules
- Aluminium 6061-T6 extrusions for lightweight coastal installations
- Pre-assembled clamps and hardware for faster deployment

Return on Investment

- Average payback period of 4-6 years for commercial installations
- Generation of 1,400-1,600 units per kWp annually in India
- Net metering benefits and accelerated depreciation tax advantages
- Reduction of electricity bills by 70-90% over 25-year lifespan
- Carbon offset of 0.7 tonnes CO₂ per kWp per year
- 25-year performance warranty on panels with <0.5% annual degradation

Portable Cabin Solutions

Deploy instant workspace with our prefabricated portable cabins engineered for offices, site accommodation, security posts, and temporary facilities. Manufactured from GI structural frames, sandwich panel walls, and insulated roofing, these modular units offer quick installation, easy relocation, and customisable interiors suitable for construction sites, industrial projects, and remote locations.



Modular Construction

Factory-built units delivered ready-to-use with electrical wiring, lighting fixtures, windows, doors, and flooring pre-installed, reducing on-site construction time to 2-3 days.



Thermal Insulation

50mm EPS/PUF sandwich panels with thermal conductivity of 0.035 W/mK maintaining comfortable interiors in temperatures ranging from -10°C to 50°C without excessive HVAC loads.



Mobility & Portability

Fork-lift compatible base frame design with corner-casting anchors allowing easy transportation by truck and crane lifting for multi-storey stacking up to 3 levels high.



Sizes & Customisation

Standard sizes from 10ft × 8ft to 40ft × 10ft with expandable side panels, false ceilings, partitions, air-conditioning provisions, and washroom/pantry integration as per requirements.



Applications & Features

- Site offices for project managers and engineers
- Labour accommodation with bunk beds and sanitation
- Security guard posts with 360° visibility
- Sales offices for real estate projects
- Retail kiosks and food courts
- Disaster relief shelters and medical camps
- PUF insulation for noise reduction (35 dB)
- Aluminium sliding windows with mosquito mesh
- Concealed copper wiring with MCB panel
- Exterior paint in Ral/Pantone shades

Mild Steel Pergola Structures

Transform outdoor spaces into functional living areas with our architecturally designed mild steel pergolas. These elegant shade structures combine structural strength with aesthetic appeal, featuring powder-coated MS sections, customisable roof patterns, and optional retractable canopies. Ideal for gardens, terraces, cafés, resorts, and commercial plazas seeking covered outdoor amenities.

Contemporary Design Aesthetics

Clean lines, geometric patterns, and minimalist frameworks available in modern square profiles or classic curved arches with custom spacing and height configurations to match architectural language.

Coating & Finish Options

Epoxy primer + polyurethane dual-coat system, powder coating in RAL colours, hot-dip galvanisation, or wood-texture finishes for corrosion protection lasting 10-15 years in outdoor environments.

Usage & Applications

Garden walkways, parking shade structures, poolside lounges, restaurant patios, entrance canopies, and wedding venue décor with integrated lighting and climbing plant support systems.

Structural Strength

Fabricated from IS 2062 E250 grade MS sections (100×100mm to 150×150mm) with welded joints designed for dead loads plus 75 kg/m² live load as per IS 875 loading standards.



Construction & Installation

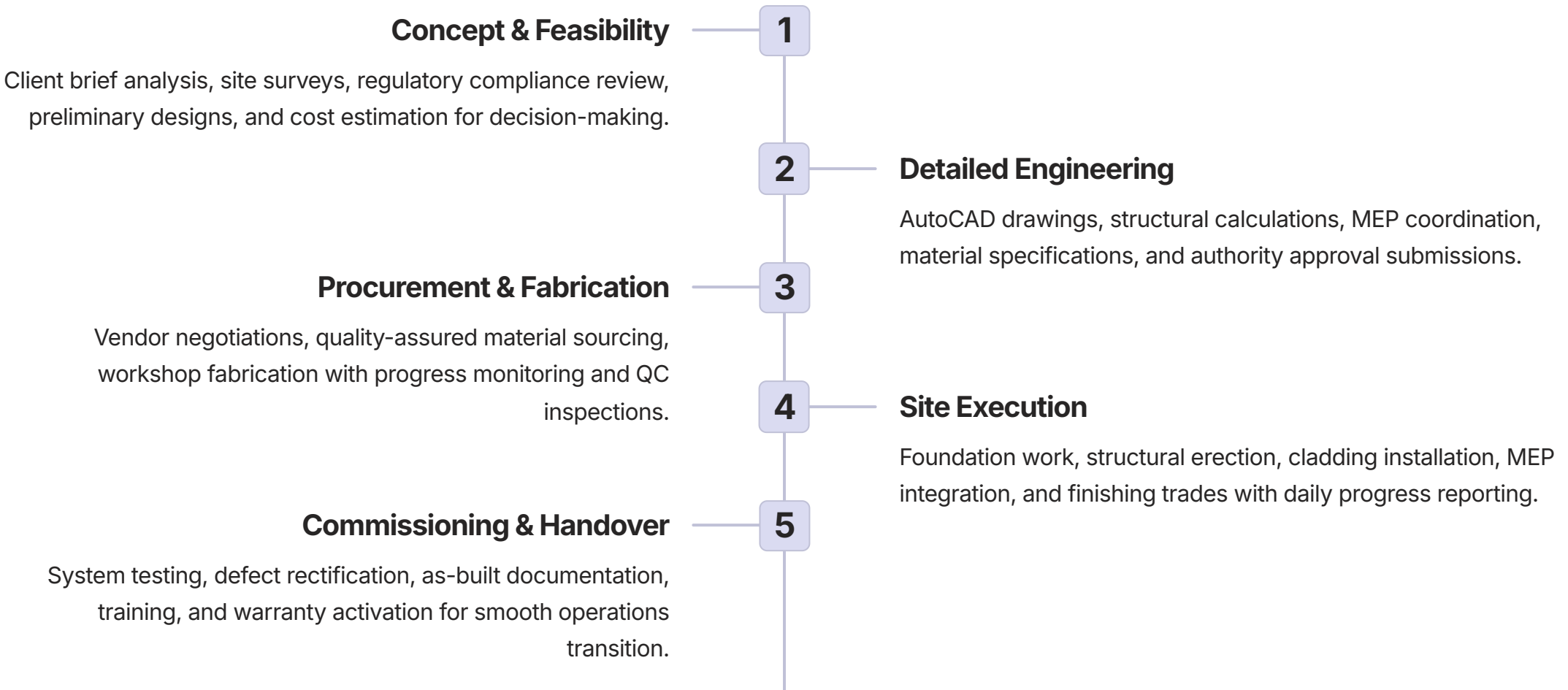
Each pergola is custom-engineered based on site dimensions and client preferences, with shop drawings prepared for approval before fabrication commences. Primary columns are anchored to concrete foundations using chemical anchors or cast-in-place base plates rated for wind uplift and lateral forces.

Roof members can accommodate polycarbonate sheets, tensile fabric, retractable awnings, or open lattice designs with creeper plant integration. Optional add-ons include LED strip lighting, ceiling fans with weatherproof wiring, and rain sensors for automated canopy retraction.

Our installation teams complete typical 4m × 6m pergolas within 3-5 working days including foundation work, structure erection, finish coating touch-ups, and client handover with maintenance guidelines.

Project Design & Management

From concept to completion, our integrated project management services ensure seamless execution of complex construction and fabrication assignments. We combine advanced design technology with proven project controls, delivering on-time, on-budget results while maintaining uncompromising quality standards and safety compliance throughout the project lifecycle.



CAD Design Services

- 2D fabrication drawings with bill of materials
- 3D BIM models for clash detection
- Structural analysis using STAAD.Pro
- Connection detailing and weld specifications
- As-built drawings post-completion

Project Controls

- MS Project / Primavera P6 scheduling
- Weekly progress meetings and reports
- Cost control and change order management
- Material tracking and inventory systems
- Risk register maintenance and mitigation

Quality & Safety

- ISO 9001:2015 quality management system
- Third-party inspection coordination
- Safety audits and PPE enforcement
- Environmental compliance (ISO 14001)
- Warranty management and after-sales support

Ready to Build Your Vision?

Partner with us for your next industrial, commercial, or infrastructure project. Contact our technical team for detailed consultations, site visits, and customised quotations tailored to your specific requirements.

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