



AGINYX INFRATECH

SOLUTIONS PVT. LTD.

CORPORATE TECHNICAL CATALOGUE

ESTABLISHED 2014

TURNKEY STRUCTURAL STEEL, PEB & ARCHITECTURAL COVERINGS

ENGINEERING EXCELLENCE, QUALITY ASSURANCE & SAFETY LEADERSHIP



LANDMARK MONUMENTAL STEELWORK

TURNKEY ERECTION

Turnkey 3D curved structural steel skeleton erection with anti-corrosive PU coating and architectural cladding.

Turnkey EPC Methodology & Project Management

Aginyx Infratech Solutions Pvt. Ltd. provides complete end-to-end turnkey EPC structural execution—from conceptual design and value engineering to shop fabrication, NDT testing, site erection, and final commissioning.

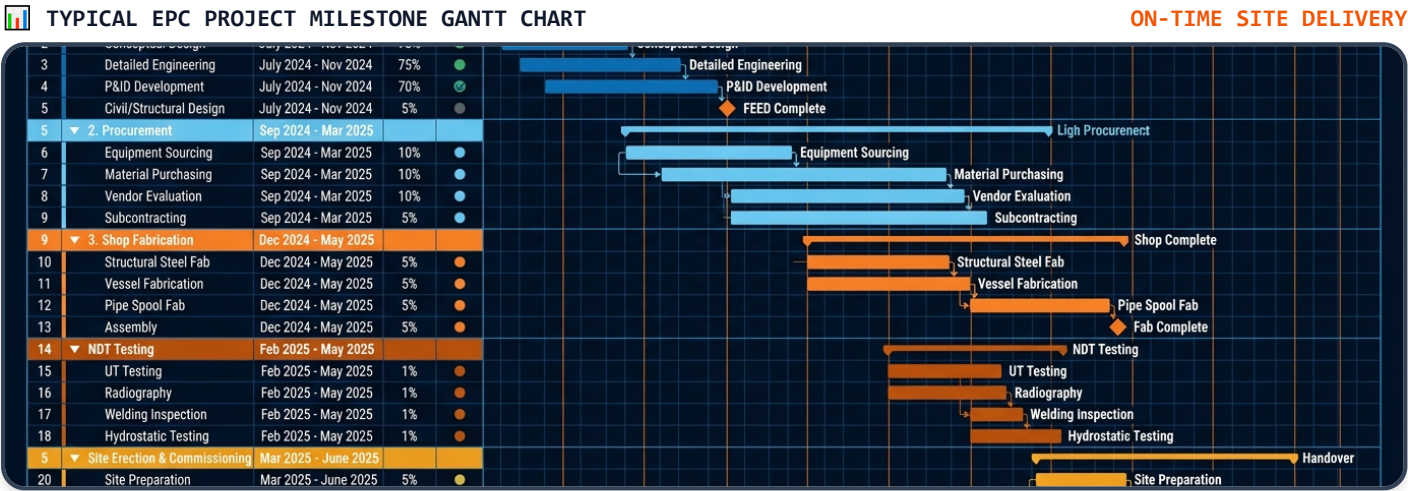
1. DESIGN
3D STAAD.Pro / Tekla detailing under IS 800.

2. PROCURE
Steel plates & tubes from TATA, SAIL, JSW.

3. FABRICATE
CNC plate cutting & SAW automated welding.

4. COATING
Sa 2.5 grit blast & PU paint system.

5. ERECT
Mobile hydras, heavy cranes & commissioning.



STATUTORY & REGISTRATION PROFILE

ESTABLISHED:
2014

LEGAL STATUS:
Pvt. Ltd.

PAN NO:
AAMCA4702G

GST NO:
09AAMCA4702G1ZR

Structural Design Codes & Engineering Compliance

BIS & AISC Standards

Every structural frame, Pre-Engineered Building (PEB), space frame grid, and glazed envelope engineered by Aginix Infratech strictly complies with Indian Standard (IS) codes, AISC specifications, and AWS structural welding criteria.

IS 800 : 2007 – General Construction in Steel	BIS Mandatory
Limit State Design (LSM) method governing flexural beams, compression columns, plate girders, gantry girders, splices, tension members, and bolted/welded connection tolerances.	
IS 875 (Parts 1 to 5) : 2015 – Structural Load Calculations	Wind & Dead Loads
Dead load (Part 1), roof live load 0.75 kN/m² & mezzanine live load up to 10 kN/m² (Part 2), and basic wind speed \$V_b\$ up to 55 m/s considering terrain and height factors (Part 3).	
IS 1893 (Part 1) : 2016 – Earthquake Resistant Design	Seismic Zones II - V
Dynamic analysis, base shear evaluation, and frame ductility details for structures constructed across Seismic Zones II, III, IV, and V (Ghaziabad, Noida, Delhi NCR, Jaipur).	
MBMA 2012 / AISC 360-16 – Pre-Engineered Buildings	PEB & Cold Formed
Metal Building Manufacturers Association standards for clear-span PEB frames, tapered plate girders, cold-formed Z/C purlins, and flange bracing.	
AWS D1.1 / IS 2062 – Structural Welding & Steel Grade	Welding Code
American Welding Society specifications for SMAW/FCAW/SAW full penetration welds and IS 2062 Grade E250 / E350 steel plates.	

Quality Management & NDT Testing Instruments

Aginyx Infratech enforces a stringent Quality Management System (QMS) covering raw material inspection, weld NDT, surface preparation, paint coating DFT measurements, and dimensional tolerance checks.

 IN-HOUSE NDT & QUALITY TESTING INSTRUMENT STATION

ASNT LEVEL II CERTIFIED



7-STAGE INSPECTION TEST PLAN (ITP)

- | | |
|---------------------------------------|--|
| 1. Material Verification & MTC 3.1 | 2. CNC Plate Cutting & Bevel Check |
| 3. Fit-up & Alignment Check | 4. Ultrasonic (UT) & Dye Penetrant (DPT) |
| 5. Grit Blasting to Sa 2.5 ISO 8501-1 | 6. Elcometer Digital Paint DFT Check |

Health, Safety & Environment (HSE) & PPE Policy

Safety is an uncompromised core value at Aginyx Infratech. We maintain a "Target Zero Harm" policy across all fabrication facilities and construction sites, protecting our workforce and client property.

STRUCTURAL STEEL ERECTION PPE EQUIPMENT & SAFETY STANDARDS

ZERO LTI RECORD



2. IMPACT SAFETY GOGGLES

- Ear Plugs

3. FULL BODY HARNESS

- With Double Lanyards & Absorbers

4. HIGH-VISIBILITY VEST

5. WORK GLOVES

6. UTILITY BELT

7. STEEL TOE BOOTS



MARK DAVIS

KEY SAFETY PROTOCOLS

MANDATORY FIELD SAFETY PROTOCOLS

- ✓ 100% Mandatory PPE (Helmet, Harness, Boots)
- ✓ Static Lifelines & Safety Catch Nets
- ✓ Daily Pre-Shift Tool Box Talks (TBT)
- ✓ Certified Hydra Cranes & Rigging Tags

The Architectural Lotus Dome Monument

Project Overview: Turnkey design, 3D curved tubular steel rib fabrication, and site erection of the monumental Lotus Dome structure featuring built-up mild steel sections, anti-corrosive PU paint, and natural stone cladding.



Structural Scope: 3D Bent Mild Steel Tubular Arch Ribs & Built-up Base Rings

Protective Coating: High-performance Polyurethane (PU) Paint System

Roofing & Cladding: Architectural Stone Cladding Panels & Skylight Glazing

Industrial PEB Warehouses & Heavy Steel Towers

Industrial Execution

Project Overview: Precision engineering, clear-span Pre-Engineered Building (PEB) fabrication, heavy equipment supporting towers, and gantry girders for industrial manufacturing facilities.



PRE-ENGINEERED BUILDING (PEB) SPECIFICATIONS

Clear-span primary rigid frames, tapered plate girders, cold-formed Z/C purlins, PPGL 0.5mm galvalume roof sheeting (550 MPa yield strength), and self-drilling fastener fixings.

EQUIPMENT SUPPORTING STEEL STRUCTURES

Heavy mild steel section latticed towers, equipment platforms, vibrating screen supports, and high-tension bolted joints (Grade 10.9).

Tensile Membrane Canopies & Polycarbonate Skylights

Architectural
Envelope

Project Overview: High-aesthetic architectural tensile fabric structures, entrance canopies, atrium skylights, and UV-protected polycarbonate daylighting systems.



ARCHITECTURAL TENSILE MEMBRANE SPECIFICATIONS

900 GSM Type 2 PVDF lacquered architectural fabric (Mehler / Serge Ferrari), FR flame retardant certified, high tensile strength, welded with high-frequency heat sealing.

POLYCARBONATE DAYLIGHTING SYSTEM SPECIFICATIONS

10mm / 16mm multiwall UV-protected polycarbonate sheets, standing seam aluminum profile fixings, offering high impact resistance (250x glass) and light transmission.

Product Lines 01 to 09

01. Heavy Steel Fabrication

Mill buildings, towers, plate girders, built-up columns.
IS 2062 Fe 410/540 | Epoxy+PU

02. Pre-Engineered Building

Clear-span sheds, crane gantries, purlins.
MBMA 2012 | 0.5mm PPGL 550MPa

03. Foot Over Bridges

Railway FOBs, pedestrian walkways, steel trusses.
IRC 24 / IS 800 | 100% UT/DPT

04. Glass Glazing & Facades

Technal skylights, atrium domes, DGU glazing.
6mm+1.52PVB+6mm Laminated

05. Tensile Fabric Canopy

PVDF architectural canopy roofs, car parking.
900 GSM PVDF Type 2 Fabric

06. Polycarbonate Daylighting

Multiwall standing seam sheets & skylight vaults.
10mm/16mm UV Polycarbonate

07. PPGL Roofing & Vents

Tata Durashine galvalume sheets & 24" turbo vents.
0.6-0.8mm PPGL | Ref: Guntakal

08. PUF Insulated Panels

Thermal sandwich panels for cold storage & cleanrooms.
50-100mm PUF | 0.022 W/mK

09. Space Frame Structures

Ball and node space frame roof grids.
IS 806 CHS | Electrostatic Powder

Product Lines 10 to 18 & Corporate Roster

10. ACP & Stone Cladding 4mm ACP panels & Dholpur stone portals. 0.5mm Coil Ref: Golfforeste	11. Mezzanine Deck Slabs Profiled metal deck sheets & Trimix concrete. 1.0mm Deck 8mm TMT 150 c/c	12. Heavy Steel Shuttering Formwork for columns, beams, piers. Stiffened MS Plate Reusable
13. Boundary Railing & Fence 10 ft Shrinathji heavy MS railings. 145x82x5.4mm 120 KG/RMT	14. Prefab Porta Cabins Modular site offices & security cabins. 50mm PUF Board Flush Doors	15. External Lift Shafts Self-supporting steel elevator towers. Ref: Apex Hospital Jaipur
16. Precision Brackets Galvanized MS & SS spider brackets. Mirror SS 304/316 HD Galvanized	17. Fire Line Supports Steel pipe racks & trestles. Signal Red Epoxy Paint Finish	18. Monumental Steelwork Curved 3D lotus dome skeletons. 3D Curved Tubular Ribs

PARTIAL CORPORATE CLIENT ROSTER

1. DELHI PUBLIC SCHOOL	2. MIRAJ GROUP	3. AIPL (ADVANCE INDIA)
4. V K METCAST PVT. LTD.	5. MANGLAM BUILDERS	6. STRENGTH INDIA EDU
7. L&T CONSTRUCTION	8. S P FAB PVT. LTD.	9. SWETA ESTATES
10. INVERTIS UNIVERSITY	11. AHLUWALIA CONTRACTS	12. SURESH GYAN VIHAR
13. B M GUPTA ESTATES	14. ADARSH BUILDTECH	15. PERNOD RICARD LTD.
16. METRO HOSPITALS	17. PARAMOUNT GROUP	18. AMEYA UNIVERSAL



AGINYX INFRA TECH SOLUTIONS PVT. LTD.
TURNKEY STRUCTURAL STEEL CONTRACTOR & FABRICATOR

HEAD OFFICE:
A-27, Sadbhavna Colony, Dasna, Ghaziabad, U.P., India

TENDER HELPLINE:
+91 9971557056 / +91 7982923584

BRANCH OFFICE:
Jaipur, Rajasthan, India

EMAIL:
sales@aginyxinfra.in

"A TRUST BUILT BY SERVING YOU BETTER OVER YEARS"