MECHORON
INFRA

MECHORON INFRA PRIVATE LIMITED

THE VANGUARD OF INDUSTRIAL INFRASTRUCTURE

PROJECT DELIVERY & SPECIALIST CONSTRUCTION PACKAGES

Integrated engineering, construction, installation, and commissioning support for complex industrial assets.

EPC • EPCIC • EPCM • PMC • EPC EXECUTION PARTNER

ENGINEERED WITH DISCIPLINE. DELIVERED WITH ACCOUNTABILITY .



A delivery partner for critical industrial assets

Integrated project execution capability for owners, developers and EPC partners.

Mechoron Infra Private Limited supports the delivery of complex industrial infrastructure through coordinated engineering, procurement, construction, installation and commissioning services.

01 SCOPE-LED EXECUTION

Work packages are shaped around defined systems, deliverables, interfaces, and acceptance requirements.

- Clear package boundaries
- Work-front and resource planning

02 MULTI-DISCIPLINE INTEGRATION

Coordination across civil, structural, mechanical, piping, electrical, and instrumentation disciplines.

- Interface management
- Coordinated field execution

03 COMPLETION-FOCUSED DELIVERY

Quality, safety, and system completion considerations are built into execution planning.

- Inspection and test readiness
- Pre-commissioning and handover support

WHO WE SUPPORT	Industrial owners & operators	Project developers	Global EPC / EPCIC contractors	EPCM & PMC organisations

Sectors we serve

Cross-sector execution support for complex, asset-intensive environments.



Metals & Minerals

Metallurgical plants, mineral processing, and material movement.



Power Plants & Utilities

Conventional power, industrial utilities and balance-of-plant assets.



Water & Wastewater

Treatment facilities, pumping systems, and utility infrastructure.



Oil, Gas & Hydrocarbons

Upstream, downstream, refining and hydrocarbon infrastructure.



Chemicals & Process

Chemical production, process units, tanks and associated systems.



Advanced Technology Facilities

Data centres, electronics manufacturing units, and solar cell manufacturing units.



Manufacturing & Heavy Industries

Industrial buildings, production lines, and heavy equipment facilities.

From FEED to operational readiness

A coordinated delivery sequence - configured to the client's contract strategy and work-package boundaries.

01

SCOPE &READINESS

Review scope, specifications, interfaces, and execution constraints.

02

ENGINEERING & CONSTRUCTABILITY

Translate design intent into coordinated work packs and field plans.

03

PROCUREMENT & FABRICATION

Coordinate materials, vendors, fabrication, traceability, and logistics.

04

CONSTRUCTION & INSTALLATION

Execute civil, structural, mechanical, piping, and E&I work fronts.

05

QUALITY, HSE & COMPLETION

Apply inspection, testing, safe-work, and completion controls.

06

COMMISSIONING & HANDOVER

Support system testing, performance checks, and documentation handover.

DELIVERY DISCIPLINE | Defined interfaces | Work-pack control | Quality assurance | **HSE oversight** | Progress visibility | System handover

Integrated packages. Clearly defined interfaces.

Two core package families are structured for standalone execution or coordinated project delivery.



PACKAGE FAMILY 01

POWER, METALS & MINERALS

Construction and installation support across power generation, utilities, metallurgical and mineral-processing facilities.

- Industrial structural Steel
- Piping, equipments, and bulk material handling systems
- Electrical, instrumentation and industrial services
- Testing, commissioning and performance support



PACKAGE FAMILY 02

REFINERIES, PETROCHEMICALS & CHEMICALS

Integrated mechanical, piping, structural, and E&I work packages for process plants and hydrocarbon facilities.

- Structural steel, tanks and mechanical equipment
- Pipe fabrication, erection and tie-in interfaces
- Electrical, instrumentation and fire protection
- Pre-commissioning and commissioning support

Final package boundaries, codes, testing requirements, and interface responsibilities are confirmed against each project's contract documents.

Power, Metals & Minerals | Package delivery

Multi-discipline construction and installation scope for asset-intensive facilities.

CORE PACKAGE SCOPE

Construction, installation and completion support across the major plant systems.

01 STRUCTURAL STEEL

Industrial buildings, platforms, pipe racks, access structures and equipment supports.

02 PIPING & SLURRY TRANSPORT

High-pressure piping, process lines, slurry transport and associated supports.

03 MECHANICAL EQUIPMENT

Installation interfaces for static, dynamic and rotating equipment.

04 BULK MATERIAL HANDLING

Conveying, transfer, storage and related material-handling systems.

POWER GENERATION • METALS & MINERALS • INDUSTRIAL UTILITIES



Power, Metals & Minerals | Integrated systems & completion

Supporting disciplines that connect equipment, utilities, controls, and operational readiness.

ELECTRICAL & INSTRUMENTATION

Installation, termination, testing, control cabling and instrument hook-up.

INDUSTRIAL MEP & FIRE FIGHTING

Industrial building services, fire-water and firefighting system installation.

REFRACTORY, INSULATION & ANTI-CORROSION

Refractory lining, thermal insulation, surface preparation and protective coatings.

HVAC & INDUSTRIAL VENTILATION

Ventilation and HVAC systems for process, utility and industrial buildings.

PRE-COMMISSIONING & PERFORMANCE TESTING

System checks, flushing, pressure testing, functional tests and performance support.



PACKAGE COMPLETION FOCUS

- Inspection and test records aligned to ITPs
- System-wise punch listing and close-out
- Turnover dossiers and handover support

Scope is configured to the project specification, approved drawings, applicable codes, and agreed interface matrix.

Refineries, Petrochemicals & Chemicals | Package delivery

Coordinated construction and installation work packages for process and hydrocarbon facilities.



PROCESS FACILITY EXECUTION

A package-led approach to structural, mechanical, piping, electrical, and instrumentation work fronts.

01 **STRUCTURAL & TANKS**

Structural steel fabrication and erection; storage tank fabrication and installation.

02 **MECHANICAL & PIPING**

Static, dynamic, and rotating equipment; pipe fabrication, erection, and tie-in support.

03 **E&I, SAFETY & UTILITIES**

Electrical and instrumentation installation, fire protection, HVAC, and specialised utilities.

Pre-commissioning and commissioning support is planned as part of system completion - not left to the final stage.

Process facilities | Structural, mechanical & piping packages

Field execution support across the plant's primary static and rotating asset systems.

STRUCTURAL STEEL FABRICATION & ERECTION

Fabrication, supply coordination, erection, platforms, pipe racks, access structures and supports.

STATIC, DYNAMIC & ROTATING EQUIPMENT

Installation support for vessels, exchangers, pumps, compressors, drivers, and associated auxiliaries.



STORAGE TANKS

Tank fabrication and erection support, alignment, welding, inspection, and associated piping interfaces.

PIPE FABRICATION & ERECTION

Shop and field fabrication, fit-up, welding, erection, supports, tie-ins, and pressure-test preparation.

FIELD EXECUTION CONTROLS

- Approved method statements and work packs
- Welding, NDT and inspection coordination
- Dimensional checks and turnover records

Process facilities | E&I, safety systems & utilities

Installation and completion support for the systems that make process assets safe and operable.

1	**ELECTRICAL INSTALLATION**	Switchgear, MCCs, transformers, cable trays, cabling, termination, and testing.
2	**INSTRUMENTATION & CONTROL**	Field instruments, control valves, junction boxes, tubing, loop checks, and functional testing.
3	**FIRE PROTECTION & SAFETY SYSTEMS**	Fire-water networks, firefighting equipment, detection and alarm system installation.
4	**INSULATION, PAINTING & FIRE PROTECTION**	Surface preparation, protective coatings, thermal insulation and passive fire protection.
5	**HVAC & SPECIALISED UTILITIES**	HVAC, ventilation, and project-specific utility system installation and integration.



COMMISSIONING SUPPORT

Pre-commissioning checks, flushing and cleaning, pressure and leak testing, loop and functional testing, punch-list closure and system handover support.

All activities are executed against approved procedures, applicable standards, and client acceptance criteria.

A controlled approach to process-plant execution

Planning and controls are embedded across construction, testing, and handover.

01 ENGINEER & PLAN

Scope review, IFC drawing checks, constructability, method statements and work packs.

02 MOBILISE & COORDINATE

Workforce, equipment, materials, access, permits, and interface readiness.

03 FABRICATE & INSTALL

Shop and field fabrication, erection, installation, alignment, and tie-ins.

04 INSPECT & TEST

Inspection and test plans, material traceability, welding/NDT, pressure and functional tests.

05 COMPLETE & HAND OVER

Punch listing, system dossiers, as-built records, turnover and commissioning support.

CONTROL PRINCIPLES **Safety before work • Approved documents • Interface ownership • Quality evidence • Transparent progress reporting**

Utilities & Wastewater infrastructure

Coordinated work packages for utility systems and water-treatment assets.

Project scope may combine civil, mechanical, piping, electrical, and instrumentation work around interconnected plant systems.

PLANT STRUCTURES

Equipment foundations, access platforms, pipe supports and utility buildings.

MECHANICAL SYSTEMS

Pumps, screens, blowers, dosing equipment and static equipment installation interfaces.

PROCESS & UTILITY PIPING

Process lines, headers, valves, manifolds, and associated supports.

ELECTRICAL & CONTROLS

Power distribution, cabling, instruments, control panels, and functional checks.



SYSTEM COMPLETION PRIORITIES

Hydrostatic / leak testing as applicable • Equipment checks • Instrument calibration/loop checks • Functional testing • Documentation and handover

A detailed scope is established against process design, client specifications, operating philosophy, and statutory requirements.

Advanced technology & manufacturing facilities

Industrial build-out and systems integration for high-specification production environments.



A coordinated package approach for the physical infrastructure that supports production, utilities, and facility operation.

STRUCTURAL & EQUIPMENT SUPPORT

Industrial structures, equipment foundations, access platforms, and installation support.

ELECTRICAL & INSTRUMENTATION

Electrical distribution, control panels, cabling, field instruments, and system integration.

HVAC, VENTILATION & UTILITIES

Industrial HVAC, ventilation, and project-specific utility distribution.

FIRE & LIFE SAFETY

Fire protection and safety-system installation coordinated with facility requirements.

TESTING & HANDOVER

Inspection, functional testing, punch-list closure, and asset documentation support.

Engineering & digital integration

Engineering inputs and digital coordination that support constructability, installation, and asset handover.

PROCESS & PLANT ENGINEERING	Process simulation, P&IDs, plant layouts and engineering reviews.
PIPING & PIPELINE ENGINEERING	Piping layouts, stress analysis, hydraulic analysis, and support interfaces.
MECHANICAL & STATIC EQUIPMENT	Equipment data review, datasheets, design checks, and installation interfaces.
STRUCTURAL ENGINEERING	Structural design coordination, steel detailing, and connection/interface checks.
3D MODEL & DIGITAL DELIVERY	Model reviews, clash/interface coordination, as-built capture and data handover.



TOOLS REFERENCED IN THE CAPABILITY PROFILE

AutoCAD • Revit • Navisworks
AVEVA E3D / PDMS • CAESAR II
STAAD.Pro • Tekla Structures
Aspen HYSYS • PV Elite

Software and engineering deliverables are selected to suit the client's standards, scope, and project environment.

Quality, HSE & project controls

A disciplined control framework to manage work execution, evidence, and risk.

QUALITY ASSURANCE & QC

Inspection, testing and records

- Inspection and test plans (ITPs)
- Material traceability and dimensional checks
- Welding, NDT and pressure testing as specified
- Punch lists, dossiers and turnover records

HSE & PROCESS SAFETY

Safe systems of work

- Risk assessments and method statements
- Permit-to-work and toolbox processes
- HAZID / HAZOP / LOPA support as applicable
- Emergency readiness and incident learning

PROJECT CONTROLS

Visibility and coordination

- Scope, schedule and progress monitoring
- Cost and resource discipline
- Interface, change and risk registers
- Reporting, look-ahead and recovery actions

COMPLETION & HANDOVER

Evidence of readiness

- Systemisation and completion planning
- Pre-commissioning and functional testing
- Punch closure and turnover dossiers
- As-built documentation and handover support

Flexible engagement models for project delivery

Roles and responsibilities can be structured around the client's delivery strategy and contract model.

EPC

Engineering, procurement and construction responsibility within an agreed scope.

EPCIC

Engineering, procurement, construction, installation, and commissioning scope.

EPCM

Integrated engineering, procurement, and construction management support.

PMC

Project management consultancy, coordination, and project controls.

SPECIALIST PACKAGES

Defined construction, installation, testing or manpower support packages.



WHY CLIENTS ENGAGE MECHORON

- Package-level execution accountability
- Coordination across multiple engineering and field disciplines
- Safety, quality, and completion focus
- Flexible deployment for greenfield and brownfield work fronts
- Support to owner teams and global EPC / EPCM partners

Engagement scope, commercial model, delivery interfaces, and acceptance criteria are defined project by project.

MECHORON
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LET’S BUILD WITH DISCIPLINE.

MECHORON INFRA PRIVATE LIMITED

- Industrial infrastructure
- Engineering Design
- Procurement management
- Construction Management
- Project delivery
- Specialist packages

CONNECT WITH MECHORON

www.mechoroninfra.com

info@mechoroninfra.com

+91 81210 04820

Hyderabad, India

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