

Project Engineering & Procurement

Engineering, Fabrication & Project
Procurement Solutions

Presented by Global Integral Services - Authorized
Representative · Latin America





Introduction

Our manufacturing partner specializes in design, fabrication and installation services for the following industries:

- Petrochemical
- Chemical
- Fertilizer
- Oil Storage Terminals
- LPG Storage Depots
- Power Generation

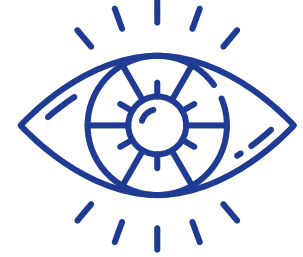
Our manufacturing partner was founded in 2008 as an Engineering Indenting Company. With time, our manufacturing partner was able to expand and start its own production facility, located in China, for mechanical valves, pipes, and followed by the next phase of production of complex mechanical equipment. In recent years, our manufacturing partner has become a one-stop solution for complete project execution.

The company is operating under the supervision of a senior management having a vast experience in oil and petrochemical sectors. . Its headquarter is situated in China, with global offices in USA, UAE and Pakistan.



Mission

Our manufacturing partner is a leader in providing value-added design, engineering and procurement services by creating a successful partnership with all stakeholders. We believe in lasting relationships with all stakeholders by exceeding their expectations and gaining their trust through meticulous performance by every member of the organization with a strong commitment to Quality, Health, Safety and Environment (QHSE).



Vision

To be the most preferred and trusted partner for our customers in the industry with a special focus and emphasis on delivering quality products & services.

Business Scope



1.

Valves of all types and metallurgy

- Ball, Gate, Globe, Check, Butterfly & Plug Valves
- MOV & Control Valves
- Various Metallurgy & Pressure Ratings for Oil & Gas & Industrial Applications

2.

Engineering Services

- Process
- Mechanical
- Instrument & Electrical
- Civil & Structural

3.

Construction and Project Management

- Construction supervision, site execution, safety and quality control
- Planning, scheduling, cost control and contract management
- Coordination of engineering, procurement, construction and stakeholder communication

4.

Project Procurement

- Static & Rotary Mechanical Equipment
- Electrical & Instrumentation Systems
- OEM Vendor Sourcing & Global Supply Chain

5.

Manufacturing & Project Execution

- Fabrication of Pressure Vessels & Heat Exchangers
- Modular Process Skids — Gas, Water, Chemical & Fuel Systems
- Assembly, Testing (Hydro/Pneumatic) & FAT

Manufacturing Capabilities

Our manufacturing partner delivers end-to-end in-house manufacturing solutions for Pressure Vessels, Heat Exchangers, and Modular Process Skids, engineered to international standards and certified quality systems.

Their facilities enable complete control over design, fabrication, assembly, and testing, ensuring faster delivery, superior reliability, and global project compliance.



- ASME & international standard-compliant fabrication
- Precision welding & automated forming processes
- Heavy-duty equipment handling for large assemblies
- Integrated skid manufacturing — piping, mechanical & E&I
- Full QA/QC documentation & testing packages

Modular Process Skids & Heat Exchangers

Our manufacturing partner delivers fully engineered, shop-fabricated process equipment designed to reduce site work, improve quality, and accelerate project schedules across Oil & Gas, Petrochemical, and Energy sectors. Compact, plug-and-play skid packages integrating process, mechanical, piping, structural, and E&I systems - engineered for safe, efficient, and reliable operation.

Custom-engineered heat transfer solutions delivering optimal thermal performance, pressure control, and mechanical integrity for demanding process services.



Applications

- Fuel Gas Conditioning Skids
- Chemical Injection and Dosing Skids
- Metering and Pressure Reducing Skids
- Solvent Recovery Units
- Condensate Recovery, KO Drum & Separator Skids
- Glycol Regeneration & Gas Dehydration Units
- Feed / Effluent & Product Coolers
- Condensers & Reboilers
- Heater & Vaporizer Services
- Utility Cooling Water, Lube Oil & Process Gas
- Air Cooler

Features

- Fully 3D-modeled and shop-assembled
- Designed to API, ASME & international standards
- Integrated mechanical, piping & E&I scope
- Shell & Tube exchangers (TEMA configurations)
- Designed to ASME Sec. VIII & TEMA standards
- Carbon Steel, Stainless Steel & alloy materials
- Optimized for efficiency, reliability & lifecycle performance

Pressure Vessels & Process Columns

Heavy-Duty Process Equipment Built for Critical Service. Our manufacturing partner designs and fabricates pressure equipment and process columns for high-pressure, high-temperature, and critical process applications - delivering safe, compliant, and long-life solutions. Purpose-built vessels fabricated with precision engineering, advanced welding, and strict quality control to meet international codes and client specifications.

Comprehensive column solutions engineered for efficient separation, mass transfer, and process stability in continuous and batch operations.



Applications

- Air Receivers, Knock-Out Drums & Surge Tanks
- Reactors (Steam-Jacketed & Thin-Walled)
- Chemical, Gas & Cryogenic Storage Vessels
- Separator Vessels & Flash Drums
- Distillation, Absorber, and Stripper Columns
- Scrubbers, Dehydrators, and Reboilers
- Condensers & Heat-Exchange Towers

Features

- ASME Sec. VIII Div. 1 / Div. 2 compliance
- In-house fabrication, NDT & hydrotesting
- Carbon Steel, Stainless Steel, Duplex & alloy materials
- Optional internal coatings, cladding & insulation
- Tray & packing internals design and layout
- Precision-rolled shells & heavy-duty supports
- Complete shop assembly and inspection
- Designed for thermal efficiency and operational reliability

Partner Project: Steam Generation System

Our manufacturing partner executed a refinery steam utility system comprising three 70-TPH boilers and an HRSG, with steam distributed to HP, MP, and LP networks, including pressure-reducing stations for MP and LP. The system integrates turbine-driven FD fans, feedwater and condensate pumps, a condensate treatment system, and deaeration with chemical dosing. Operation and safety are ensured through a DCS with ~1,800 SIL-2-compliant instruments, delivering a reliable and efficient steam supply for refinery operations.



Some other projects: Pressure Equipment, HXs. Air Cooler



More projects: Modular Skids



Engineering Consultancy

Feasibility Studies / FEED / Basic Engineering / Process Engineering

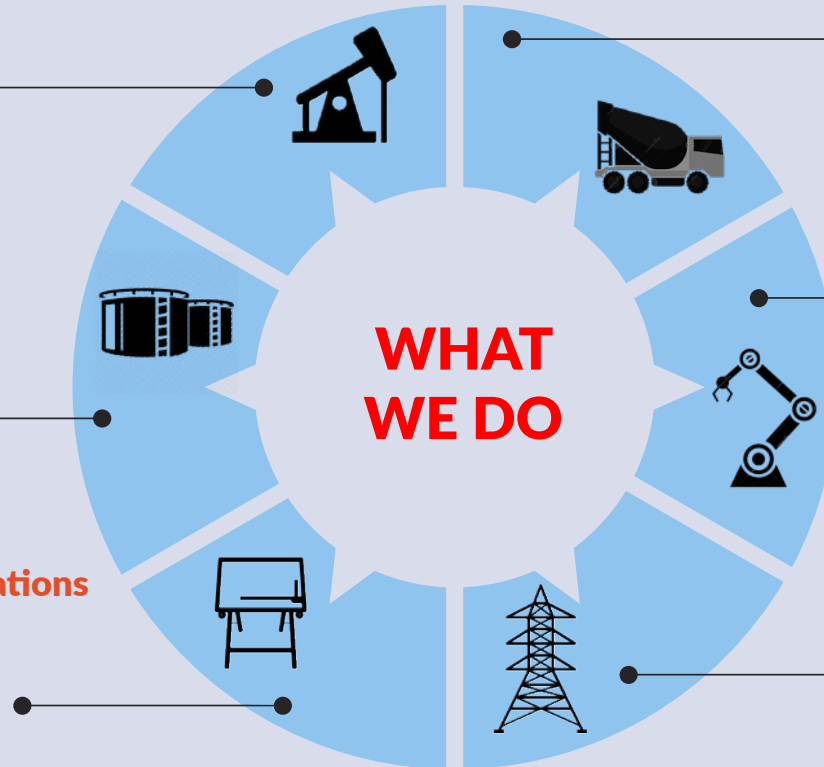
- PFDs / UFDs / Process Simulations
- Heat & Material Balance
- Hydraulic Calculations (Static/Dynamic)
- Equipment Sizing
- P&IDs
- Technical Safety Layouts as per Local / Codes requirements
- Venting Calculations
- Hazardous Area Calculations
- Surge Analysis

Mechanical Engineering

- Stress Analysis
- 3D Modelling
- Piping Layouts
- Isometric Drawings
- Bill of Materials
- Storage Tank Design
- Pressure Vessel Design
- Pressure Vessel / Heat
- Exchanger / Process Skids

As-Built & Reverse Engineering / Gap Analysis / Evaluations

- As-Built Data Collection for Brown Fields
- Design Basis Development from existing Data
- Gap Analysis
- Efficiency Analysis
- As-built Piping Layouts
- As-built Electrical Single Line Drawings / Cable Route Layouts
- As-built Civil Layouts / Underground Facilities layouts
- As-built Instrumentation Drawings / Termination Drawings / Layouts / Loop Drawings
- Development of Data Banks for Existing Site Data
- Technical and Commercial Bid Evaluations



Civil & Structural Engineering

- Structure Analysis
- Foundation Engineering (Equipment Foundations Static & Dynamic)
- Storm Water / Oily Water System Calculations / Drawings / Layouts
- Plant / Office Buildings
- Bill of Materials
- Road & Paver Design
- Civil Gap Assessments

Digital Transformation / Automation / Instrumentation

- DCS/SCADA System Design & Development
- Industrial and Plant Automation
- Instrumentation Drawings (Loop / termination / Wiring)
- Instrument Sizing
- Layouts (Instruments/F&G/Cable Routing)
- Integrated Instrumentation design on common database (Loop/Hook-up/Specifications/Schedules/IO list)

Electrical & Communication Engineering

- Single Line Development
- Short Circuit Analysis
- Electrical Layouts
- Power Flow Analysis
- Arc Flash Analysis
- Equipment Sizing (Genset / Transformer / Motor)
- Energy Audits
- Cathodic Protection Systems for U/G Pipelines/Structures
- Solar Systems Integration

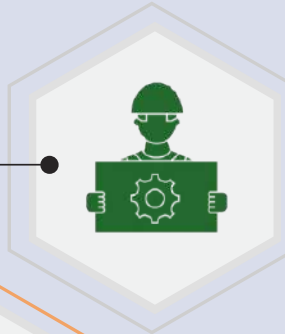
Construction & Project Management Services

Construction Project Management

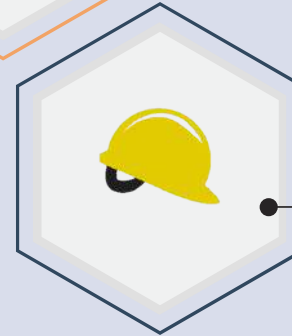
- Construction Project Management
- Deployment of Construction Supervision Crew
- Project Status Assessments
- Construction Management & Administration
- Construction Contractor Assessments
- Progress Monitoring & Reporting
- Project Cost Analysis
- Manpower & Resource Assessments
- Change Order Assessments
- Schedule Review, Monitoring and schedule recovery assessments
- Periodic / Full-time Field Inspections
- Contract Closeout administration

Quality Assurance & Quality Control

- Development of Client and Project specific inspection & testing plans
- Deployment of Quality Assurance & Control Crew
- Development of QA/QC Forms / Templates
- Services offered for all engineering disciplines (Mechanical/Civil/Electrical/Instrument/Automation)



WHAT WE DO



Project Management Office Services

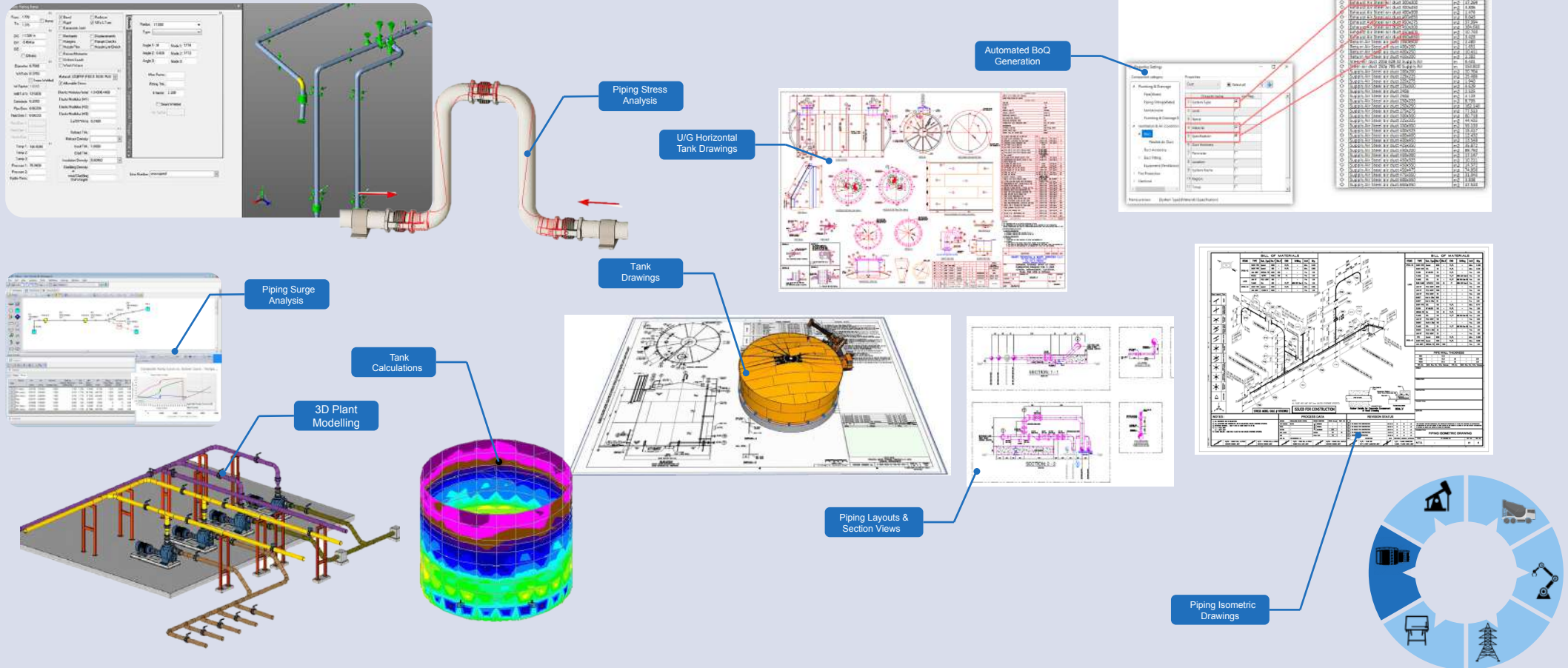
We work in 3 ways:

- Deploying Clients' process management practices throughout the process
- Developing templates, trainings & services based on Gap Assessment
- Directing & Developing entire project based on Project Management Practices.

Construction & Site Safety

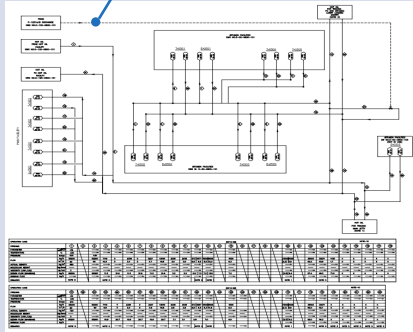
- Constructability Reviews
- Construction Traffic / Journey Management Plans
- Emergency Evacuation & Response Plans
- Energy Isolation Barrier Management & Controls
- Work at Height Barrier Management & Controls
- Lifting & Hoisting Studies
- Tank Lifting Studies
- Temporary Site Facilities Assessment
- Occupational Health & Safety Assessment

Execution at its Best: Manufacturing Partner - Mechanical Engineering Projects (Piping/Tanks)

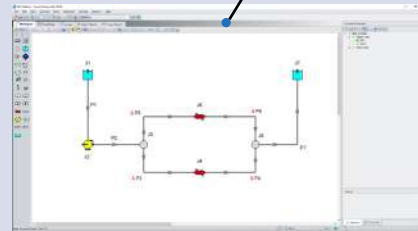


Execution at its Best: Manufacturing Partner - Process Engineering Projects

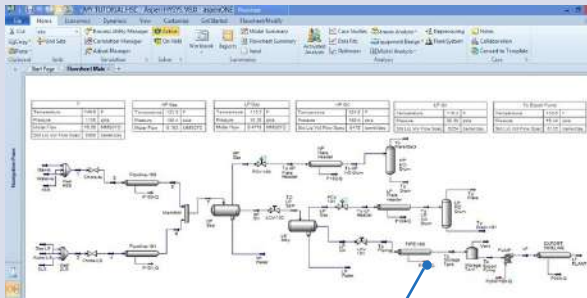
Process Flow
Diagrams



Hydraulic Analysis
(Static & Dynamic)

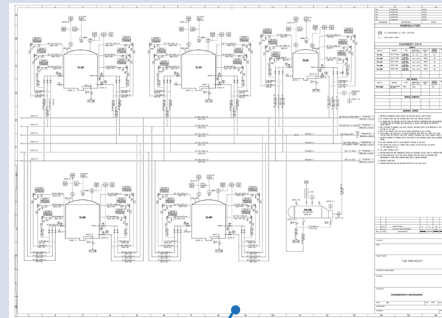


Venting Calculations

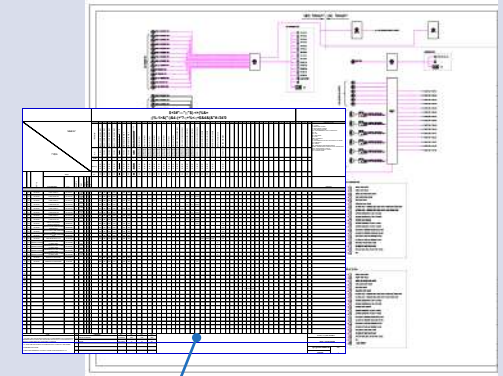


Process
Simulations

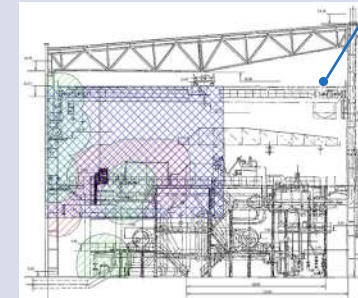
Process & Instrumentation
Drawings



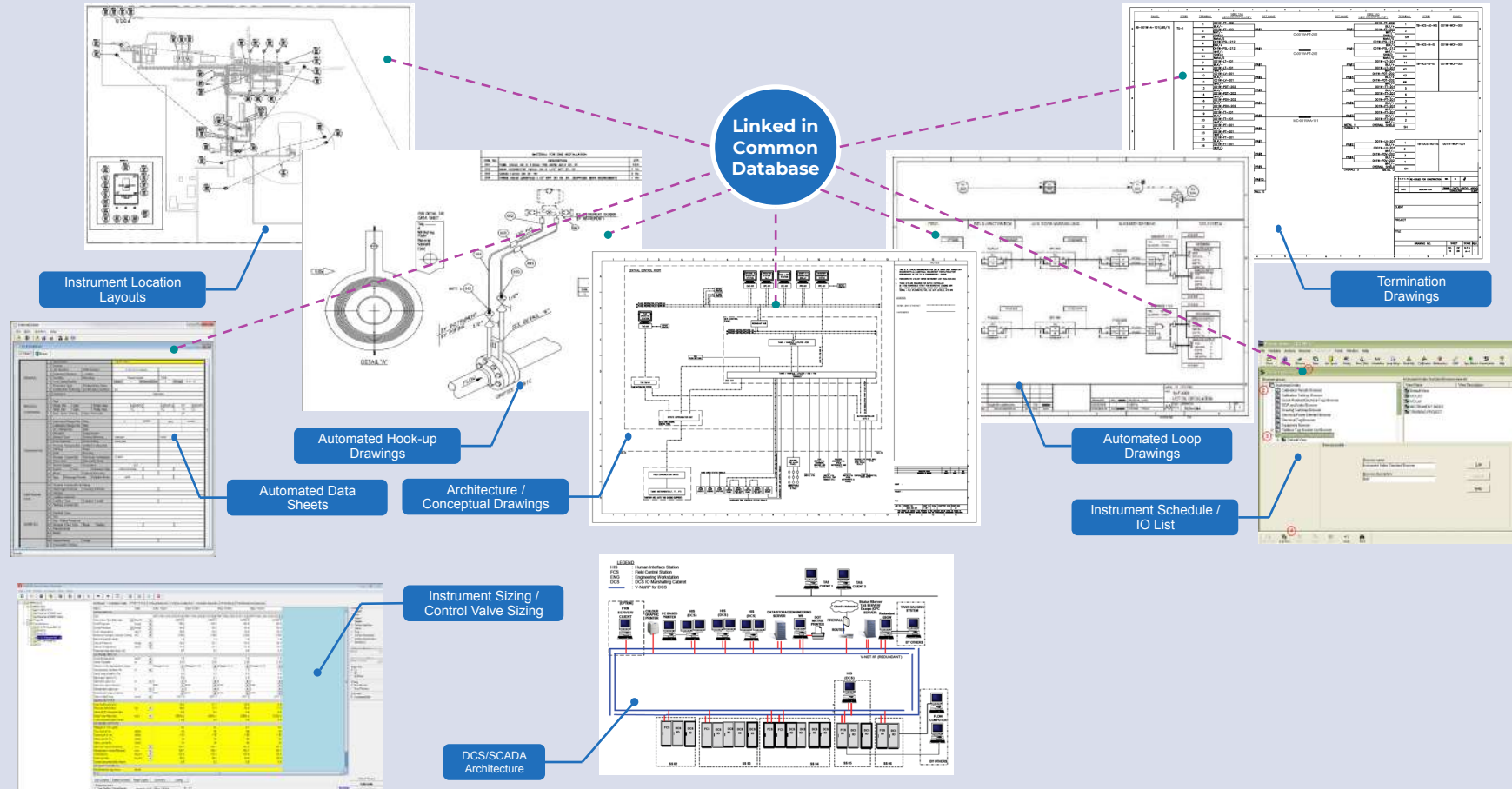
Cause & Effect
Drawings / Matrix



Hazardous Area
Classification Drawings



Digital Transformation / Automation / Instrumentation



Manufacturing Partner's Work (As-Built, Reverse Engineering, Gap Analysis & Techno-commercial Evaluations)

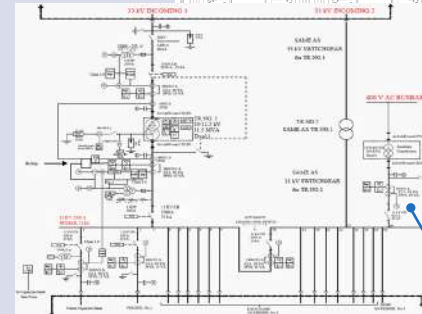
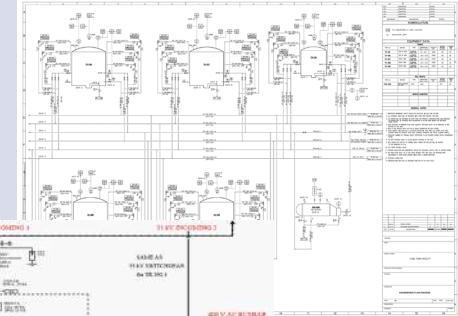


Site Visits / Data Collection

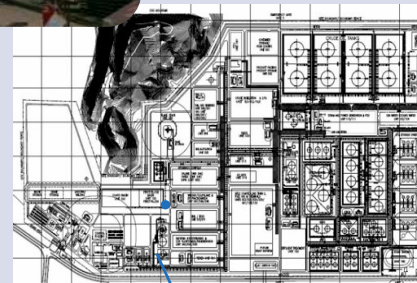


Item No.	Description	Quantity	Unit	Rate	Amount
1	Excavation	100	m³	100	10000
2	Concrete	500	m³	200	100000
3	Reinforcement	1000	m	50	50000
4	Formwork	200	m²	100	20000
5	Labour	1000	hrs	100	100000
6	Transport	100	km	100	10000
7	Material	100	kg	100	10000
8	Tools	100	hrs	100	10000
9	Equipment	100	hrs	100	10000
10	Other	100	hrs	100	10000

Technical Bid Evaluations



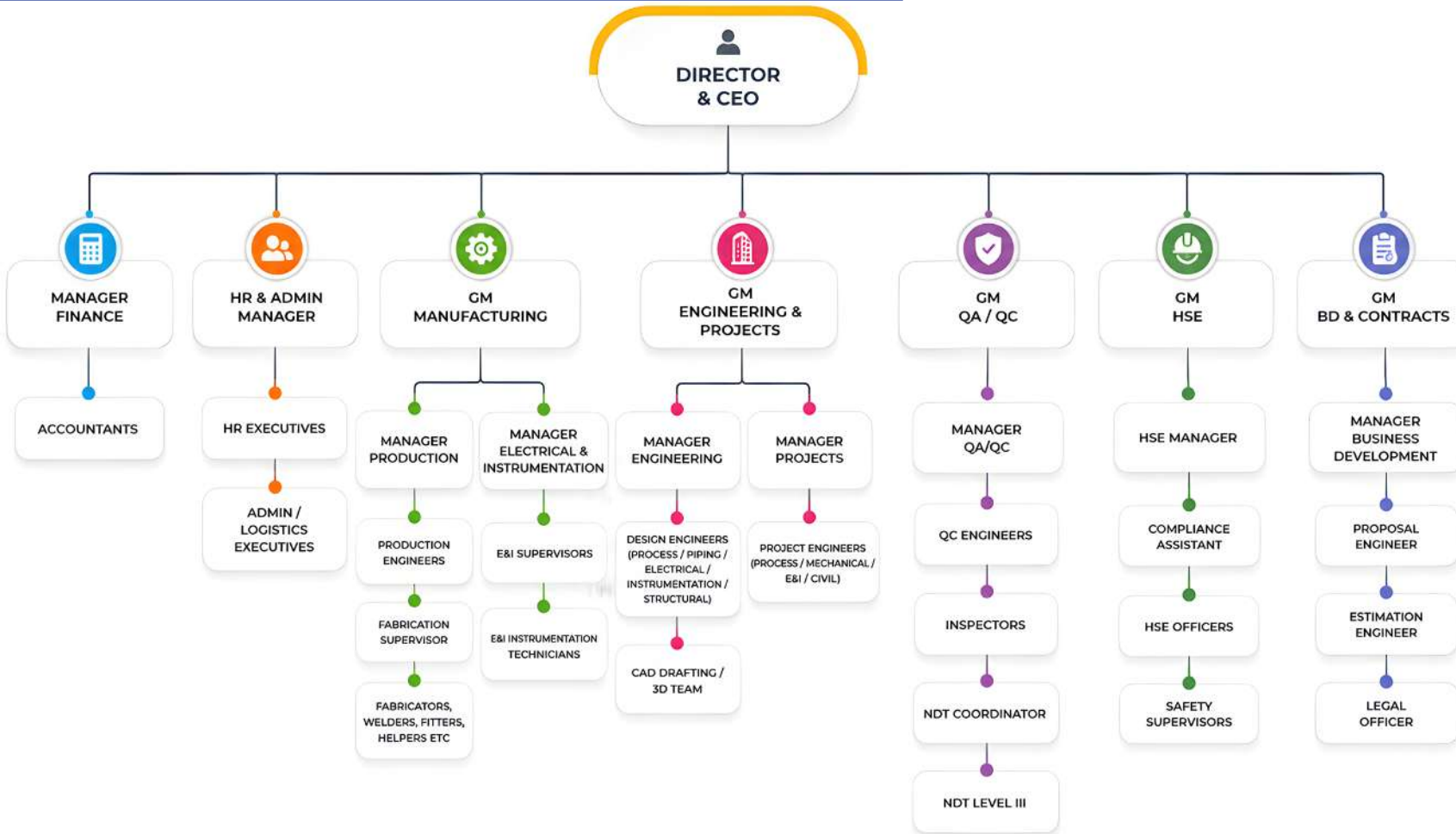
As-Built Drawings



As-Built Plot Plans / Topographic Survey



Organogram - Manufacturing Partner



Advantages of Our Manufacturing Partner

- Faster project execution and reduced site work
- Improved quality control and safety through workshop fabrication
- Compact, scalable, and easily transportable modules
- Fully integrated mechanical, electrical, and instrumentation systems



Project Procurement

Our manufacturing partner has extensive experience to deliver Engineering and Procurement part of an EPCC Project while directly working with an EPC Company or with end user.

Our manufacturing partner's team has vast experience of sourcing process equipment, rotary, machinery, power generation, instrumentation and electrical equipment from global OEM's as per client satisfaction.

Our manufacturing partner's global presence makes it easy to source from different destinations as per client requirements to offer an optimal time and cost-effective solution.



Global Vendors

ABB

CATERPILLAR®


EMERSON™
Process Management

 **HTC**
HANGZHOU STEAM TURBINE CO., LTD.

Honeywell

KROHNE

Patterson

NMFiRE®
Protect life, love and history

Cummins

Dräger

SIEMENS

SULZER

FLOWSERVE

WIKAI


WARD

YOKOGAWA 

Manufacturing Partner's Major Clients



Global Office & Facility Network of Our Manufacturing Partner

USA

UNITED KINGDOM

PAKISTAN

CHINA (HEAD OFFICE)

UAE

China (Head Office)

Office #903, Zhongou International Building, Wenzhou, China.

United Kingdom:

Unit 1, Winghay Close, Stoke-on-Trent, Staffordshire, United Kingdom.

USA:

15730 W Hardy Rd Ste Unit # 340 Houston, TX 77060 USA

UAE:

Office 117, Hussain Al Zarouni Building, Al Qusais Ind Area 2, Dubai.

Pakistan:

Office : C- 88, Block 9, Gulshan Iqbal Karachi.