







www.vitalengsolutions.com



About Us

Vital Engineering Services is a multi-disciplinary engineering company serving Owners and Operators, OEMs, EPC contractors, PMCs, and Technology Package Fabricators. We offer a range of services, including Project Management, Conceptual Design, FEED & Extended Basic Engineering, Detailed Engineering, Procurement Support, Pre-Commissioning, Site Support, and Resource Augmentation.

Our custom service delivery models are tailored to meet your project's specific needs based on size, scope, and duration. We recommend the most feasible and viable delivery model from the following options:

- 1. Fixed Price
- 2. Time & Material
- 3. DTM Model
- 4. Resource Augmentation.



Our Services Process & Safety

- Process Flow Diagrams
- Conceptual Layout
- P&ID
- Line List
- Equipment List
- Instrument Process Design Sheet
- Process Data Sheets
- Piping Service Index
- Line & Pump Sizing
- Utility Consumption Summary
- Participation in HazOp



Piping

- Overall Plot Plan & Unit Plot Plan
- Equipment Layouts & GA Drawings
- Piping Layouts & GA Drawings
- Piping Isometrics
- Line List or Line Schedule
- Nozzle Orientation, Spool, Special Support, and Platforms Design Drawings
- Piping Support Design & Calculation
- MTO/BOM
- Piping Insulation, Painting, & Material Specification
- Specialty Items Lists
- Data Sheets for Valve & Piping Specials
- Piping Stress Analysis
- 3D Modeling
- Technical Bid Evaluation
- As-built Updates





Civil & Structural Engineering

- Foundations Design & Analysis (Static & Dynamic)
- Site Preparation, Site grading & Fence Details
- Formworks and Detailed Civil drawings
- Detailed Engineering for Special Structures
- GA, Erection and Fabrication Drawings
- Pipe support, Pipe racks, Shelters, Platforms, Cross overs & Sleepers
- Structural Stress Analysis
- Transportation and Lifting Analysis, Reports & Drawings
- As-built drawings
- 3D Modeling



Reverse

Engineering

- Laser Scanning
- Registering & Stitching of Scan Data
- Creating precise plant 3D Laser models from
- Scanned Point Cloud data in various formats,
- such as .pptx, .pcg, .xyx, .dwg, .dgn, .rvt.
- Point Cloud to 3D Dumb Model
- Millimeter-accurate 3D CAD Models
- Dumb Model from Laser Scan
- Extraction & Submission of deliverables like;
- GAD's Isometrics, MTO, etc.





Industry Served

- Oil & Gas Offshore & Onshore
- Petrochemical
- Chemicals
- Power & Infrastructure
- Manufacturing
- Water and Wastewater Treatment
- Carbon Capture
- Cryogenics
- Hydrogen



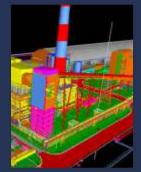
Software

- Hexagon CAESAR II
- Bentley STAAD Pro
- Hexagon PV-Elite
- Bentley Systems ProSteel
- ETAP
- Autodesk AutoCAD
- Bentley MicroStation
- BrisCAD
- AVEVA E3D
- Hexagon CADWorx
- Bentley AutoPLANT
- Dassault Systems SOLIDWORKS
- Trimble's TEKLA
- Autodesk Advance Steel
- Autodesk AutoCAD Plant 3D
- Autodesk Inventor
- Ansys
- Bentley RAM Connection
- Autodesk REVIT
- HTRI



Project Portfolio

List of Vital Engineering Solutions



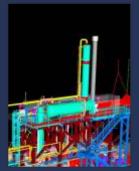
HAZIRA POWER PLANT



H2O2 REGENERATION PLANT



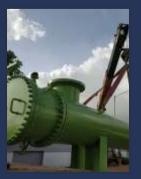
COALESCER MODULE SKID



VAPOR RECOVERY



CONDENSATE TREATMENT PACKAGE



SHELL & TUBE HEAT EXCHANGER



BOILER BURNER SKID



KNOCK OUT SKID



OXYGEN PLANT

