

Kavya TECHNITAS Pvt. Ltd. shares its stage amongst being one of the pioneering companies for offering a combination of services in the Engineering & Management segment. We offer design and detail engineering for small and medium sized plants and skid mounted process packages for a wide range of industrial applications.

KAVYA LLC formerly based in Abu-Dhabi U.A.E registered in the Year 2009 expanded its operations to Vadodara, Gujarat - India in the year 2014.

Our Engineering Services business concept is based on early involvement in our customer business development offering complete multi-discipline services catering to the needs of our clients based worldwide.

Process Detail Engineering

Static Equipment Engineering

Finite Element Analysis

Piping Design & Analysis

Tank Farm

Equipment used for Early Production Facilities

Amine Packages

Potable & Demineralized water Plant

Produced Water Treatment Packages

Electrical & Instrumentation Engineering

Project supervision & Management



Vision

To be the preferred partners with our Clients/Package Vendors, delivering challenging Projects and achieving highest level of satisfaction for our Clients & Other EPC Stake owners.

Mission

To deliver Quality Engineering & Project Management Services to the Oil & Gas, Power & Water Treatment Industries, in a manner that is reliable, sustainable, competitive, flexible & customised to the project needs promoting business relationship on long term basis.

Our Software Expertise & Services

Software Expertise

- HYSYS, HTRI & CFD
- Process Simulation, Line Sizing & Eqpt.Sizing
- Intergraph PVElite
- Intergraph Nozzle Pro - FEA
- Intergraph TANK
- Intergraph CAESAR II Pipe Stress Analysis
- Intergraph CAD Works 3D Plant Designer / PDMS
- Intergraph CADWorks P&ID
- Intergraph Orthogen 2D+COG
- Intergraph ISOGEN - Piping Isometric
- Autocad Building Design Suite
- Tekla Structures (X-STEEL)
- NavisWorks
- Autoplant 2D & 3D
- STAAD Pro
- Microsoft Project
- In house devolped softwares

Services

- Pre-Bid Engineering
- Design & Detail Engeneering
- Plant 3D Modeling
- Review Engineering
- Procurment Support
- Construction Support
- As-Built Engeneering
- Project Management
- Creation of Intelligent P&ID`s
- Autocad Building Design Suite
- 3D Laser Scanning
- As-Built Devolpment from Laser point clouds
- Inspection
- Expediting



Our Commitment

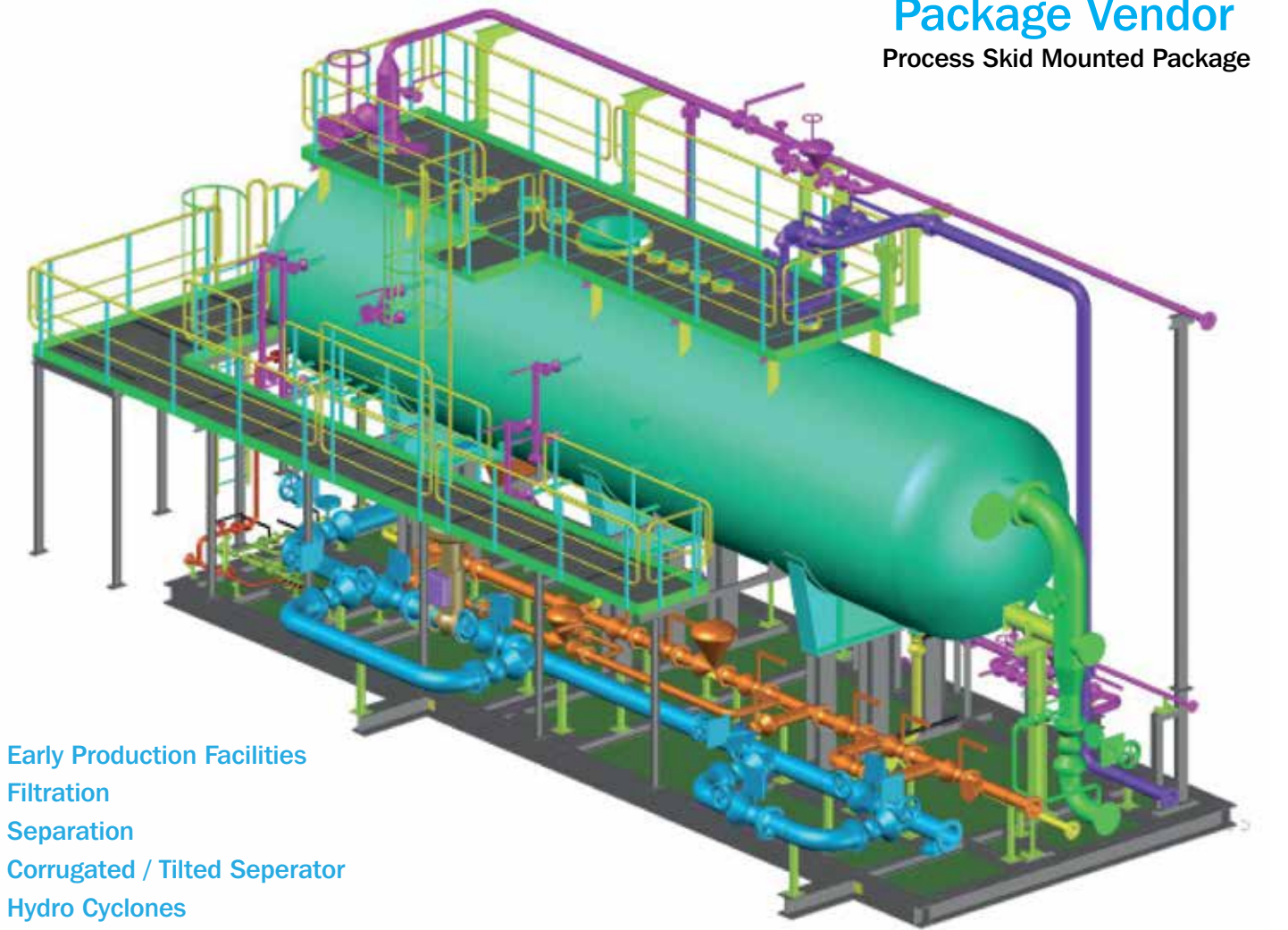
ISO 9001

Our certified management system ISO 9001 is put in place to ensure effective planning within the organization with adequate operational control of the Processes and excellent delivery to our client.



Safety Management System OHSAS 18001

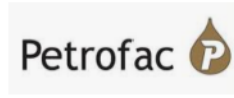
Occupational Health & Safety OHSAS 18001 provides a framework that ensures the continuous identification & Control of Occupational health and safety risks, the reduction of the accident and the improving of the working environment in compliance with the applicable occupational health and safety rules and regulations.



Package Vendor Process Skid Mounted Package

- Early Production Facilities
- Filtration
- Separation
- Corrugated / Tilted Separator
- Hydro Cyclones
- Induced Gas Flotation
- Chemical Injection
- Water Purification
- Waste Water

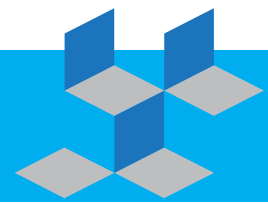
OUR END CLIENT / EPCs



Skid Mounted Packages

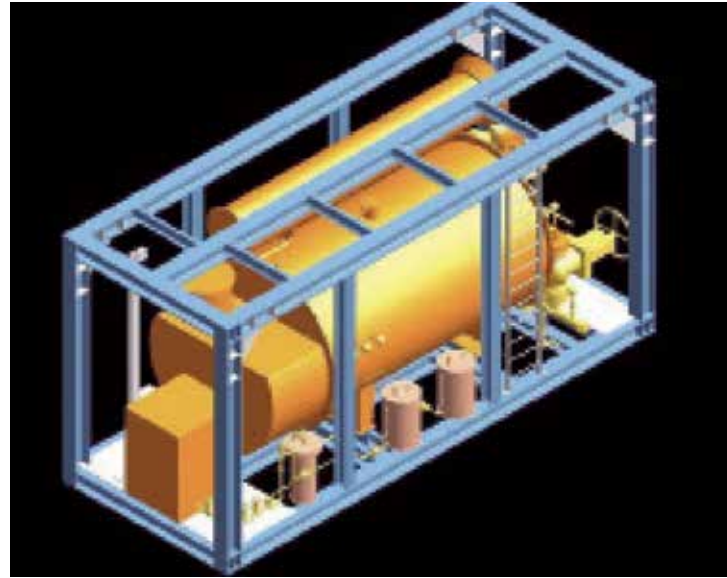
- Preliminary Design and Bill of Qtys.
- Process Detail Engineering
- Process Flow Diagram
- P & ID
- Design of Pressure Vessel & Drawings
- Design of Access Platform & Drawings
- Mechanical & Thermal design
- 3D modelling of complete package
- Piping Iso Metric Drawing & BOQ
- Piping Stress Analysis
- Piping support design and drawings
- 2D piping Drawings and COG calculations
- Tie-in Schedule
- Staad Analysis of the Base Skid & Lifting Lug calculations
- Instrumentation Data sheets & hook up drawings
- Procurement Engineering & Management support
- Fabrication & construction support
- Inspections at Vendor location
- Expediting support
- As Built Engineering
- Vendor Document Review
- Compilation of QA/QC Dossier & close out

Early Production Facilities

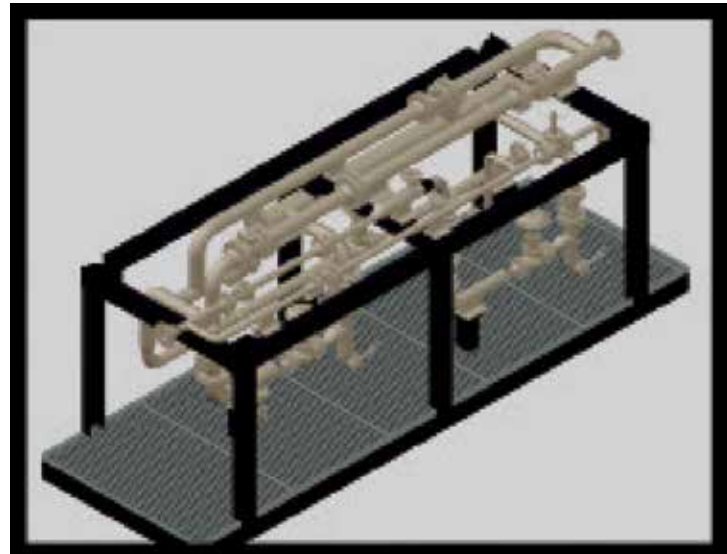


EPF Facilities and Equipment

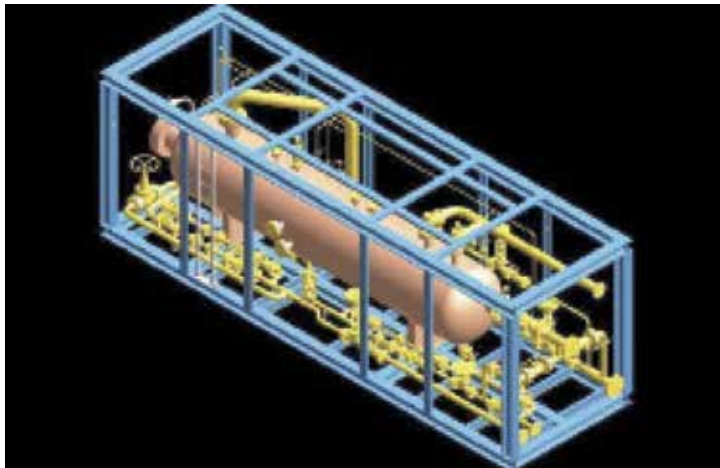
- Inlet Choke Manifold
- Test Separator
- Second Stage Separation
- Compression (Dehydration)
- Oil Recycling Pump, Water Degasser and Booster Pump
- Storage Tanks
- Sump and Surge Tanks and oil export
- Export Metering and export manifold
- Flare Gas KO vessel and condensation Return Pump
- Flare Stock
- Burner boom



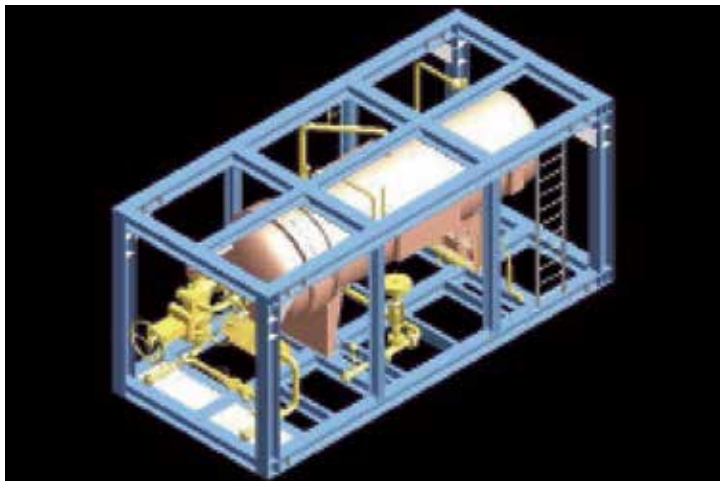
Indirect Water Bath Heater



Metering Skid



1440 psi Separator

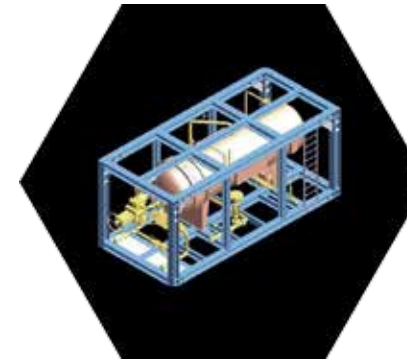


5000 psi Steam Heater

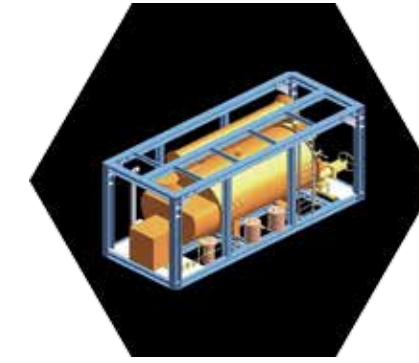


Choke Manifold Skid

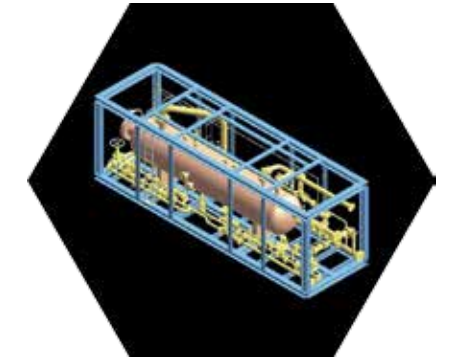
Early Production Facilities



5000 psi Steam Heater



Indirect Water Bath Heater

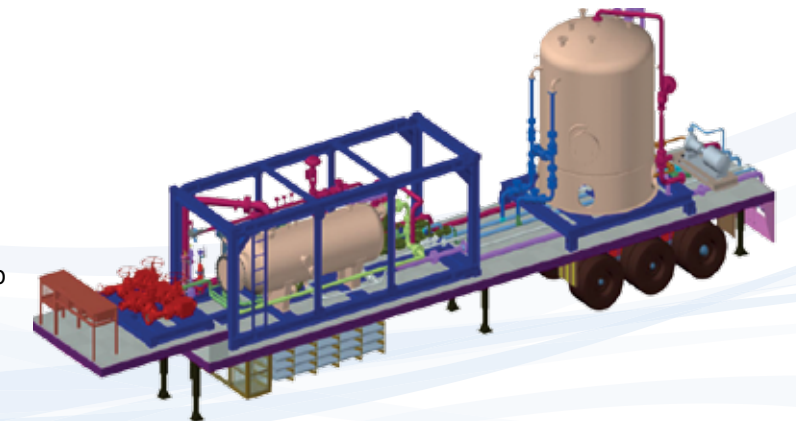


1440 psi Separator



Mud Plant

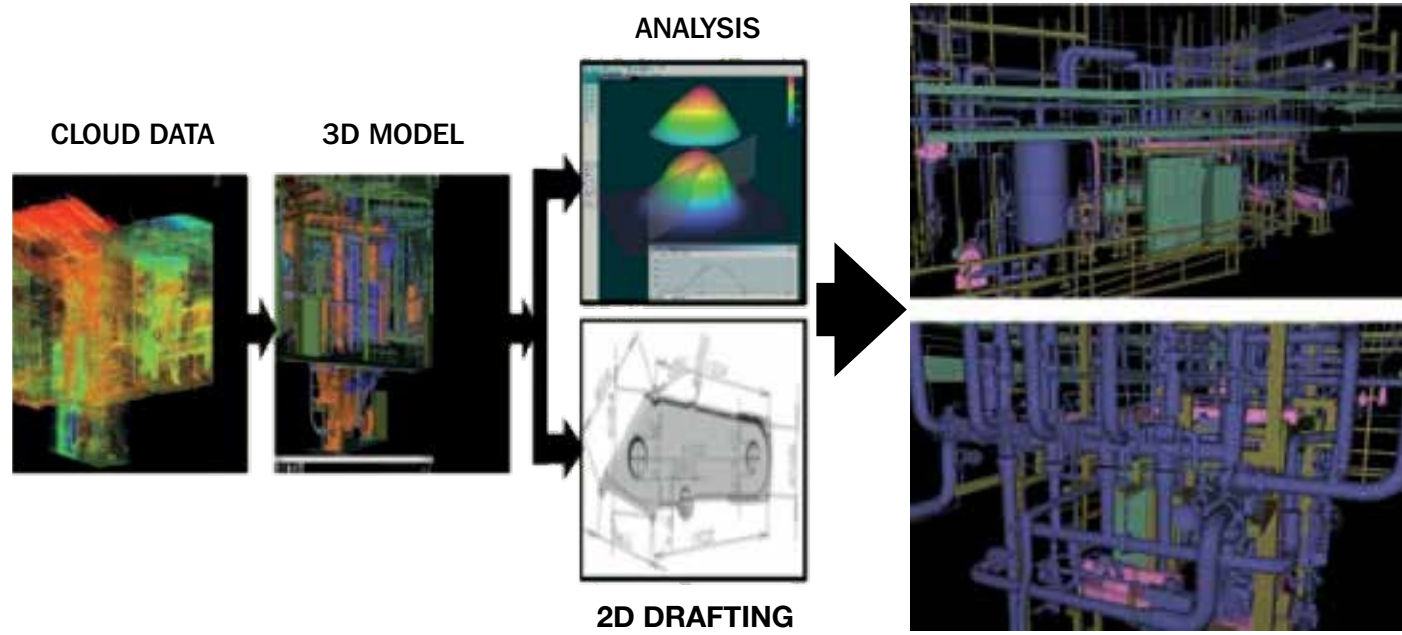
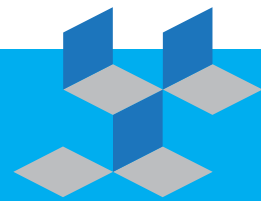
- Feed Studies / Process Guarantees
- Design & Detail Engineering / 3D model
- Inlet Choke Manifold
- Test Separator
- Second Stage Separation
- Compression (Dehydration)
- Oil Recycling Pump, Water Degasser and Booster pump
- Storage Tanks
- Sump and Surge Tanks and oil export
- Export Metering and Export manifold
- Flare gas KO vessel and condensation Return Pump
- Flare Stock
- Burner boom



Mobile Well Head Test



3D Laser Scanning-Cloud Data-3D Modeling-Analysis- 2D Drawings.



- 3D modeling based on as-is point clouds
- PDMS / PDS services
- Clash checks in point clouds or 3D models
- Simulations 3D scanning empowers you with:
- Rapid data capture
- Shortened production cycles
- Increased manufacturing efficiency
- Improved product quality
- CAD models that reflect shop-floor changes
- Measure parts
- Create CAD data
- Make parts fit
- Rapid prototype
- Analyze the competition
- Scale parts up or down
- Save warehouse space
- Capture performance surfaces

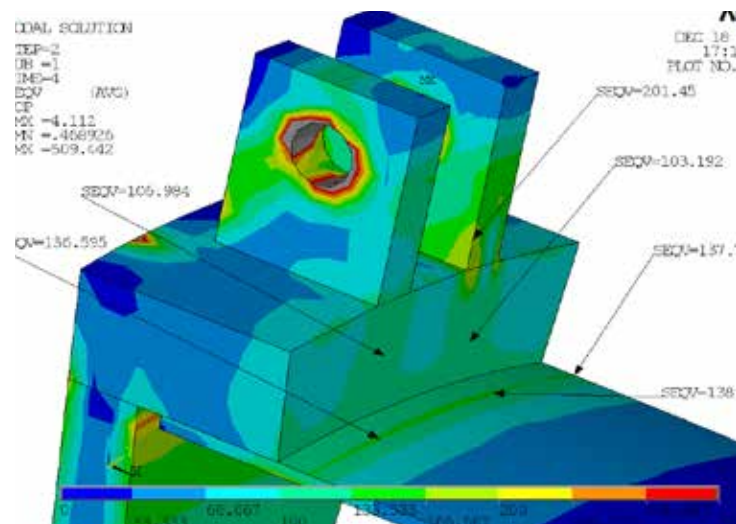
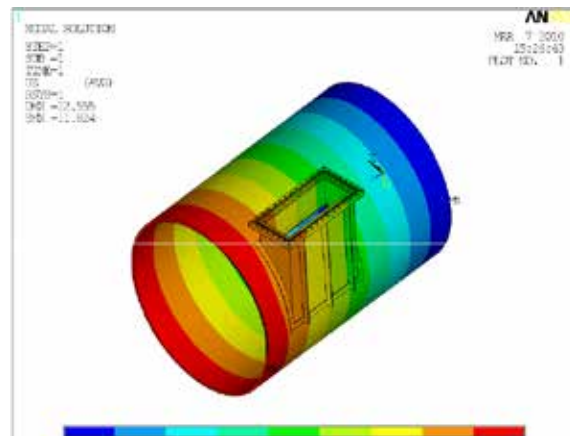
FARO Photon Laser Scanner high resolution 3D scans are ideal for laser scanning metrology applications like REVERSE

ENGINEERING INSPECTION
MODELING
AS-BUILT DOCUMENTAION
ASSET MANAGEMENT &
MORE



FARO Photon Laser Scanner
Services:
Measures 976,000 points per second
Filed of view 360 horizontal 320 vertical accuracy 2mm at
25m scan images in b/w color (optional) 3D FARO Scanner

Finite Element Analysis - Ansys



Tank Farm



Tank Farm

- PFD (Process Flow Diagram)
- P & ID
- PLOT Plan
- System General Arrangement Drawing.
- Tank Data Sheet in accordance with API 650
- Pig Launcher Data Sheet
- Pig Receiver Data Sheet
- Piping Material specification
- Control Valve Data sheet
- Instrument Data Sheet / Hock ups
- Design calculation of Storage Tank
- Design, GA & Detail Drawing of Storage Tank
- Design, GA & Detail Drawing of Pig Launcher/Receiver
- Line pipe & inter connecting Piping GA drawing
- Bill of Qtys (BOQ)
- Civil Foundation Design
- Stress & flexibility analysis
- 3D model of the Tank farm facilities
- Piping support schedule & Drawing
- Piping ISO metric drawing.
- Submission of Tank erection methodology.
- As Built Engineering



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www.kavatechnitas.com