

# PAVE Consultants Pvt. Ltd



## COMPANY PROFILE

PAVE Consultants Pvt. Ltd. is a leading consultancy firm focused on engineering project management and innovative engineering solutions, committed to excellence and quality.



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# PAVE Consultants Pvt. Ltd

## Introduction

PAVE Consultants Pvt. Ltd. is a premier consultancy firm dedicated to providing top-tier project management services. With a focus on Pioneer Apex Vertex Engineering (PAVE).

## Our Vision

To be recognized as the leading project management consultancy firm, known for our unwavering commitment to excellence, innovation, and client satisfaction.

## Our Approach

We believe that every project is unique, and is our approach. By closely collaborating with our clients, we gain a deep understanding of their goals and challenges, allowing us to craft bespoke solutions that drive success. Our commitment to transparency, integrity, and excellence ensures that our clients meet their project objectives.

## Corporate Governance

At PAVE Consultants Pvt. Ltd, robust corporate governance is fundamental to our success and sustainability. We uphold transparency, ethical practices, and accountability to serve the best interests of our clients, stakeholders, and communities.



# PAVE Consultants Pvt. Ltd

## Core Competency

PAVE is providing consultancy, engineering and project implementation services to Greenfield and Brownfield hydrocarbons and non-hydrocarbons projects:



### Project Management Services

- > Field development planning
- > Budgetary cost estimation
- > Initial & detailed planning
- > Project planning and monitoring through MS Project & Primavera P6
- > Documentation of contracts, agreements and negotiations
- > Prequalification of vendors
- > Equipment's sourcing
- > Development of procurement documents & floatation of tenders
- > Evaluation/recommendation of bids
- > Inspection at manufacturer's work.
- > Preparation of Project schedules, manning charts, technical write-up & Engineering Man hour Estimations



### Conceptual Design

- > Data gathering and discussions
- > Setting objectives and boundaries with client
- > Concept development & alternatives evaluation
- > Site identification & evaluation
- > Weight & budgetary cost estimating (CAPEX and OPEX) & schedule development
- > Development of NPV & IRR
- > Recommendations



### FEED Development

- > Process engineering
- > Metallurgy and materials engineering
- > Piping engineering
- > Instrument engineering
- > Electrical engineering
- > Civil engineering
- > Structural engineering
- > Safety & environmental engineering
- > Pipeline engineering
- > Cost estimating
- > Preparation of FEED/Basic Engineering documents





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## Basic Engineering

- > Concept Design
- > Development of Process Simulation
- > Heat and Material Balances
- > Process Flow Diagrams (PFD's)
- > Utilities Flow Diagrams (UFD's)
- > Utility and Effluent Summary
- > Sizing for process equipments.
- > Rating of equipments
- > Cause and Effect Diagrams
- > Flow assurance studies
- > Process studies for upgrade & modification

## Detailed Process Engineering

- > Piping and instrumentation Diagrams (P&ID's)
- > Hydraulic Calculations
- > Utility Distribution Diagrams
- > Fire Protection Systems
- > Pressure Relieving, Flaring, and Depressurizing Calculations
- > Safety Studies like Hazop
- > Line lists & Equipment lists
- > Operations Manuals



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## Equipment Engineering

Design calculations, detail engineering and development of drawings for:

- > Pressure vessels
- > Heat exchangers
- > Process columns
- > Reactors
- > Fired Heaters
- > Storage tanks



## Plant Engineering

Design and development of:

- > Plot plan
- > Route Studies
- > Equipment layout
- > Piping layout with sectional details
- > Piping isometrics
- > Bill of material of plant piping
- > Piping stress and flexibility analysis
- > Fire Fighting Network



## Pipeline Engineering

Design and development of:

- > Flow lines/gathering system simulation and determination of size of pipeline and slug (if required)
- > Pipeline Route Selection
- > Topographical Survey
- > Pipeline line sizing and thickness calculations
- > Pig Launcher/Receiver
- > Pipeline Alignment Drawings
- > Pipeline stress and flexibility analysis

## Site Supervision

- > Experienced, hands-on construction management team for tight schedule control, Progress measurement/report, Settlement of Contractor's claim, Verification of Contractor's bills etc.
- > Detailed planning using Primavera P6
- > Quality control through qualified quality inspectors for each discipline
- > Safety through qualified HSE team for safe execution of the project



## Civil and Structure Design

Design of plant steel structure, which includes the following:

- > Loading & Un-loading gantries
- > Pipe rack
- > Equipment supports
- > Pump house/sheds, compressor's house sheds etc.
- > Operating platforms and accessories.
- > Workshop/warehouse shed incl. structure for overhead crane

Design engineering and development of construction drawings for:

- > Equipment foundations
- > Tank foundations
- > Plant roads & bridges
- > Plant buildings
- > Dyke / bund wall for tank farm



## Instrumentation Engineering

Detail Engineering of Instrumentation and Controls in Oil & Gas industry:

- > Project Interconnection Diagram
- > Instrument I/O List
- > Instrument Index
- > Instrument Data sheet
- > Instrument Hookup Diagram
- > Instrument Loop Diagram
- > Instrument Layout Diagram
- > Cause & Effect Diagram
- > Cable Schedule Diagram
- > Data sheets for instrumentation
- > Instrumentation hook-up drawings
- > Cables and junction box layout
- > Standard installation drawings

## Regulatory Compliance, Technical Audit of Existing Systems

- > Verification/inspection of production, storage & filling facilities for their regulatory compliance based on international standards and recommendations
- > Development of comprehensive audit reports and recommendations.





## Electrical Engineering

Preparation of Detailed Electrical Engineering Package including:

- > Preparation of Data sheets and specifications of MV/ LV electrical equipment
- > Development of Hazardous classification layouts & hazardous material lists
- > Cable sizing calculations LV / MV, development of cable and cable drum schedules
- > Sizing calculations for the Generators, Transformer and UPS.
- > Development of Single line diagrams Switchgear / MCC & power distribution System
- > Development of schematic, interconnection & termination diagrams
- > Development of Power layouts, trench layouts & section details
- > Development of Cable tray and Equipment layout plans
- > Lighting Lux level Calculations with software and Development of Buildings lighting & small power drawings.



## Cathodic Protection Engineering

Development of:

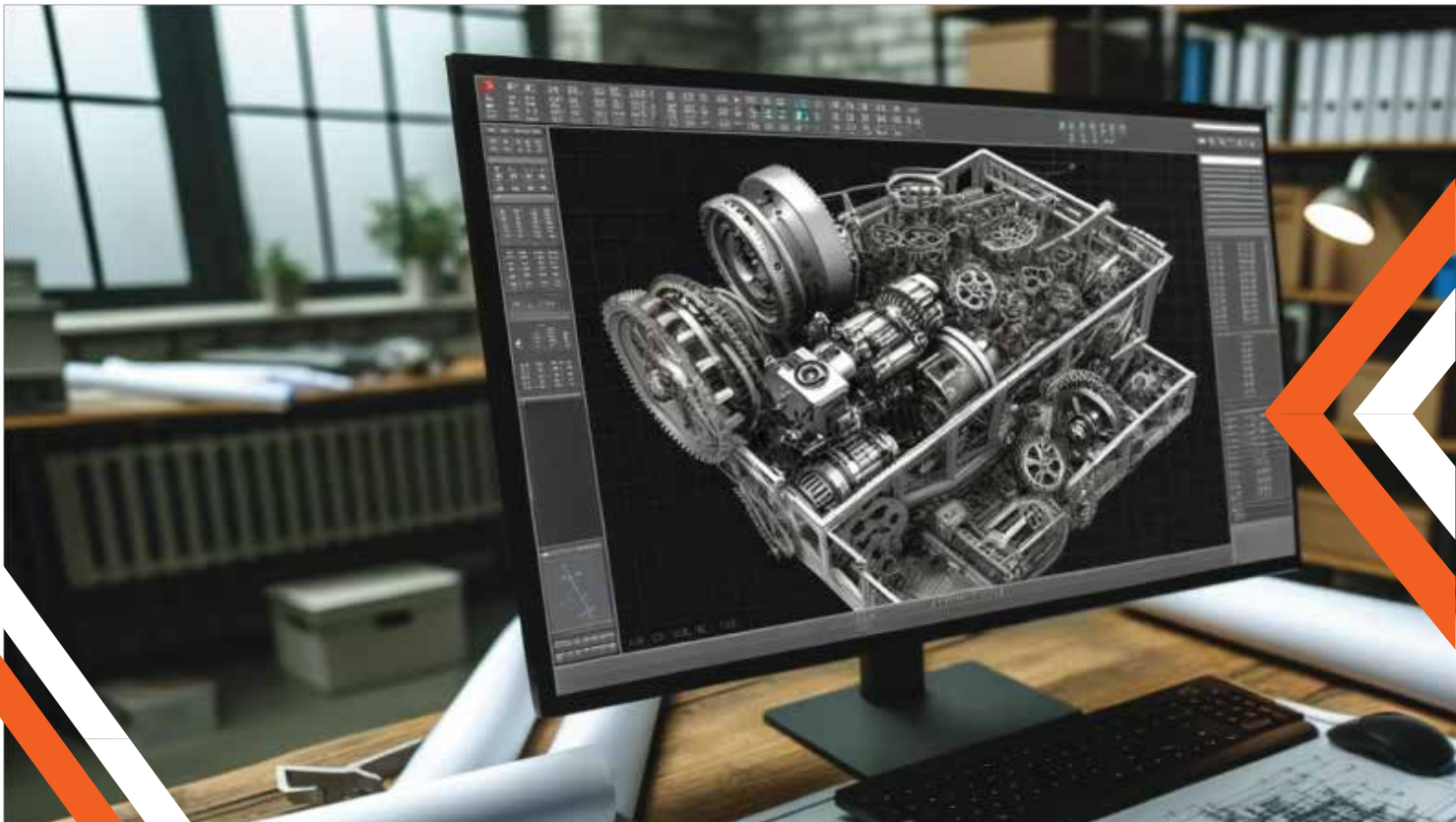
- > Design Calculations as per NACE Standards.
- > Development of CP Layout
- > Standard installation drawings
- > Specification and BOQ.
- > Soil Resistivity Survey
- > Current Drain Test (for existing system)



## Procurement Services

Procurement services integrated within project task force, which includes the following:

- > Development of procurement documents
- > Tender floatation & receiving of bids
- > Technical & commercial evaluation of bids
- > Worldwide capability
- > Shop inspection through our own in-house inspectors
- > Use of client vendor lists
- > Development of MTO & BOQs supply & installation for installation team & Contractors



## Engineering Common Resources

Our team members have expertise in using engineering software for projects. Besides world renowned engineering software, our team members also developed software in house for engineering applications. We have expertise and access to following software's:

- > ASPAN Hysys for process simulation
- > Flare Net for Flares & Vents sizing
- > PHAST for dispersion modeling
- > OLGA Simulation (Hydraulics Analysis)
- > Studies using SPS, Pipesim, Pipephase
- > AFT Impulse for surge analysis
- > Korf for hydraulic analysis
- > Caesar-II for piping flexibility analysis
- > Coade Tank & E-Tank for design/rating of storage tanks
- > Compress & PVElite for design of columns & pressure vessel
- > Staad Pro & E-tabs for structural analysis
- > Cadworks & AutoCad for 3-D Plant Modeling
- > Shell FRED (Heat Radiation Modeling)



# PAVE Consultants Pvt. Ltd

## Clients



## Why Choose Us!

Why Choose PAVE Consultants Pvt. Ltd.:

**Expertise** Our team's extensive industry experience ensures that we provide the best possible guidance and support.

**Innovation** We leverage the latest technologies and methodologies to deliver cutting-edge solutions.

**Client-Centric** We prioritize our clients' needs and work tirelessly to ensure their satisfaction and success.

**Proven Track Record** We have a history of successfully managing and delivering complex projects across various sectors.