



PAVNI ENGINEERING
PRIVATE LIMITED

PRECISION

PERFORMANCE
PROGRESS



WHERE **ENGINEERING** MEETS **EXECUTION**

OUR JOURNEY
Established in
2013

Pavni Engineering builds on a decade of expertise in Thermal Utilities and LNG across India, Yemen, and Mauritius. From a 36-member fertilizer project in Turkmenistan, we've grown over 50-fold, delivering high-performance solutions for oil refineries, LNG terminals, polyurethane plants, and gas processing units, including in extreme Russian climates. With proven capabilities in construction, project execution, and management, Pavni Engineering is now evolving into a full-service EPC partner for global industrial projects.



TAILORED SERVICES **TRUSTED RESULTS**

Pavni Engineering is transitioning into a full-service EPC provider with strong execution capabilities and expanding expertise in Design and Procurement. Our multi-skilled leadership, robust technical foundation, and scalable operations form the backbone of our growth.



ENGINEERING DESIGN SERVICES

- PFD & P&ID development
- 2D/3D modeling and detailed drawings
- Structural design
(STAAD Pro, GA, AIJ standards)
- Thermal design, equipment layout & installation
- SKID & mechanical design
- Piping stress & structural analysis
- Material requisition & specifications
- Laser-based 3D modeling
- Electrical diagrams
(SLDs, control room layouts)
- Instrumentation
(hookups, interlocks, IOs – COSMOS)



PROCUREMENT SERVICES

- Conducting vendor surveys and comprehensive technical-commercial evaluations
- Negotiating project contracts, schedules, and related terms
- Reviewing designs, fabrication sequences, drawings, and QA/QC documentation
- Monitoring overall project schedules with regular performance reviews



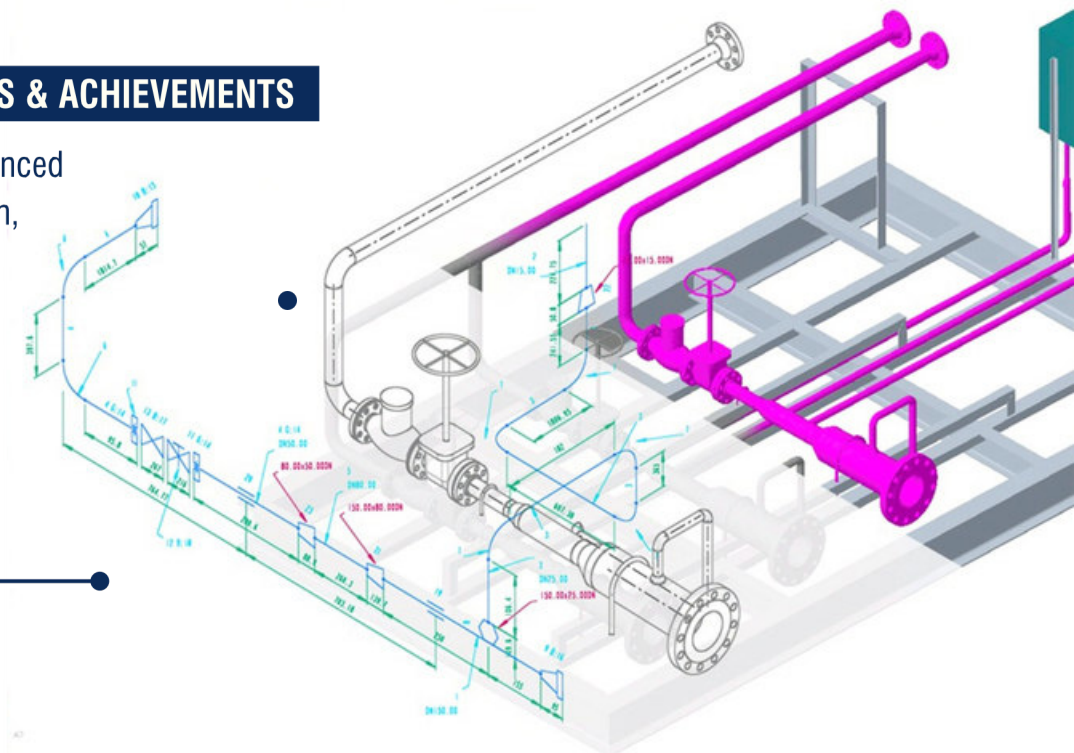
SOFTWARE EXPERTISE INCLUDES

AutoCAD, STAAD Pro, RFEM, Inventor, AVEVA, Unigraphics, CATIA, Pro-E, SolidWorks, Plant 3D, PDS, PDMS, E3D, SP3D, HTRI, CAESAR II, PVELITE, Hyper Mesh, Ansys, COSMOS, and SPI.



TECHNICAL CAPABILITIES & ACHIEVEMENTS

Our team is proficient in advanced 3D modeling, structural design, load analysis, and plant & equipment design. We specialize in piping stress analysis, SIL, PID, and CFD analysis for thermal, biogas, petrochemical, and chemical plants.



UTILITY SERVICES



OIL & GAS, POWER & UTILITIES

- Structural fabrication & erection: beams, pipe racks, boilers, columns, girders, plates, roofing, piping support & Utilities buildings.
- Boilers-water wall panels, steam lines, headers, Boilers Drum and storage tanks.



PIPING SERVICES

- Fabrication of skid pipes, loops, bends & jacketed piping
- Erection of underground & above-ground piping
- Structural & piping joint welding
- NDT inspection, test packs, and pre-commissioning



PROJECT MANAGEMENT

- Engineering drawing review
- Quantity survey & Cost Estimation
- Project Scheduling
- Quality control & documentation



KEY ACHIEVEMENTS

- 2.4M WDI
- 140 MT structural steel work completed
- 20M+ man-hours deployed





FABRICATION FACILITY

Pavni Engineering possesses proven expertise in steel structural fabrication, supported by a fully equipped fabrication unit in Pune. The facility houses advanced CNC machinery, automated welding systems, and material handling equipment, enabling precision and efficiency in production.

With a monthly output capacity of 400–500 MT, we undertake complex, large-scale projects with strict adherence to client specifications, timelines, and international quality and safety standards.





MACHINERIES

The following latest and advanced fabrication machinery and equipment are at our facility, enabling us to execute high-precision & high-volume structural fabrication work

- MIG (500Amps Heavy-duty Pulse-Pulse) WELDING MACHINE
- TIG (400Amps Heavy-duty Pulse-D Pulse) WELDING MACHINE
- UNICO CRANES 10MT - OVERHEAD CRANES
- LASER CUTTING MACHINE 12kw
- PLASMA CUTTING MACHINE
- SAW MACHINE
- AG 4G, 5G & 7G MACHINES
- PENCIL GRINDER
- DRILL MACHINE [HAND]
- MAGNETIC DRILL MACHINE
- MIG WELDING MACHINE -250 LT & 400
- ARC WELDING MACHINE
- PUG CUTTING MACHINE
- FLUX OVEN

Additionally, our workshop is equipped with Two fabrication bays, each fitted with a 10-ton overhead crane to facilitate efficient material handling and assembly of heavy structural components.





MAN-POWER RESOURCES

Pavni employed a team of highly skilled engineers, technicians, and tradespeople who bring expertise and craftsmanship to every project—large or small. Their deep domain knowledge ensures quality-driven outcomes, every time.

Our Fabrication workshop is supported by a dedicated **in-house design team** and a skilled group of technicians, who works closely with clients to deliver customized solutions in every project.

We maintain a dedicated workforce of 100+ direct skilled and semi-skilled personnel, capable of executing complex fabrication tasks with efficiency and precision. Our team includes certified welders, fitters, fabricators, grinders, crane operators, and other essential trades. This skilled manpower ensures timely project execution with a strong focus on quality, safety, and client satisfaction.

Blasting and Painting

Post-fabrication, Pavni provides in-house surface preparation and finishing services, including abrasive blasting and industrial-grade painting. Our dedicated blasting and painting facility ensures corrosion protection, surface durability, and compliance with project-specific coating specifications and quality standards.





WORKSHOP LAYOUT

Pavni Engineering operates from a well-established facility comprising a fully equipped fabrication workshop and an adjoining administrative office. The workshop layout is strategically organized to ensure streamlined workflow, operational efficiency, and safety compliance. Key zones within the facility include:

- Raw Material Storage Area
- Cutting and Marking Zone
- Fabrication Bays with 10-Ton Overhead Cranes
- Welding and Assembly Area
- Blasting & Painting Section
- Inspection and Quality Control Area
- Finished Goods Storage
- Administrative Office and Meeting Rooms

TOTAL WORKSHOP AREA: 28879 SQ.FT.



Operations & Maintenance Excellence



- 8.7+ MLD Operational Capacity
- 77+ Dedicated Personnel
- Multi-Year Contract Excellence

O&M; PORTFOLIO OVERVIEW

Pavni Engineering operates and maintains mission-critical water treatment and desalination infrastructure across India and Southeast Asia. Our operational excellence model combines proven field experience with AI-driven predictive maintenance and real-time optimization systems

CORE O&M; CAPABILITIES

Process Management: 24/7 operations monitoring, real-time process control, equipment maintenance, chemical optimization

Technology Integration: SCADA systems, IoT sensors, remote dashboards, AI-driven predictive analytics

Regulatory Compliance: Environmental monitoring, discharge standards, water quality assurance, compliance reporting

Continuous Innovation: Cost optimization, efficiency improvements, technology upgrades, performance enhancements

REFERENCE PROJECTS PORTFOLIO

- PROJECT 1: RANA SUGAR LIMITED - ETP
- PROJECT 2: RAMCO DISTILLERIES - DISTILLERY WASTEWATER ETP
- PROJECT 3: JAWA PORT AUTHORITY - SEAWATER DESALINATION PLANT

DETAILED PROJECT SPECIFICATIONS

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1. Rana Sugar Limited – Effluent Treatment Plant (ETP)

Client: Rana Sugar Ltd

Capacity: 3.5 MLD

Project Type: Industrial Effluent Treatment & Reuse System

Process Scheme:

Equalization Tank → ASP (Activated Sludge Process) →
PAX Reactor → Aeration → UF → RO

Treated Water Reuse:

Cooling Tower Makeup Water

Scope of Work:

Complete Operation & Maintenance of ETP & Tertiary Treatment

UF & RO system operation and optimization

Chemical dosing & sludge management

Compliance monitoring and reporting

Manpower Deployed: 40 Personnel

Contract Duration: 2 Years

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2. Ramco Distilleries – Effluent Treatment Plant

Client: Ramco Distilleries

Capacity: 1.5 MLD × 2 (Total: 3.0 MLD)

Project Type: Distillery Wastewater Treatment

Scope of Work:

End-to-end plant O&M

Process monitoring and control

Utilities operation and maintenance

Regulatory compliance support

Manpower Deployed: 23 Personnel

Contract Duration: 2 Years



DETAILED PROJECT SPECIFICATIONS

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3. Jawa Port Authority, Gresik – Desalination Plant

Client: Jawa Port Authority, Gresik

Location: Gresik, Indonesia

Capacity: 2.2 MLD

Project Type: Seawater Desalination Plant

Scope of Work:

Operation & Maintenance of Desalination System

RO system performance monitoring

Preventive & breakdown maintenance

Water quality assurance

Manpower Deployed: 14 Personnel

Contract Duration: 3 Years

WORKFORCE TRAINING

Pavni Engineering excels in sourcing, skilling, and deploying highly competent personnel across all disciplines.



RESOURCE MANAGEMENT

- Strong sourcing & skill-mapping models
- Focus sectors: Oil, Gas, Power & Shipbuilding
- Roles: Engineering, Construction, QA/QC, Safety (NEBOSH certified)
- End-to-end blue-collar workforce management



TRAINING SERVICES

- NAKS welding certification programs
- In-house facilities for continuous upskilling



CONSTRUCTION, IMPLEMENTATION & PROJECT MANAGEMENT

- A core focus for over 9 years, covering end-to-end project execution.



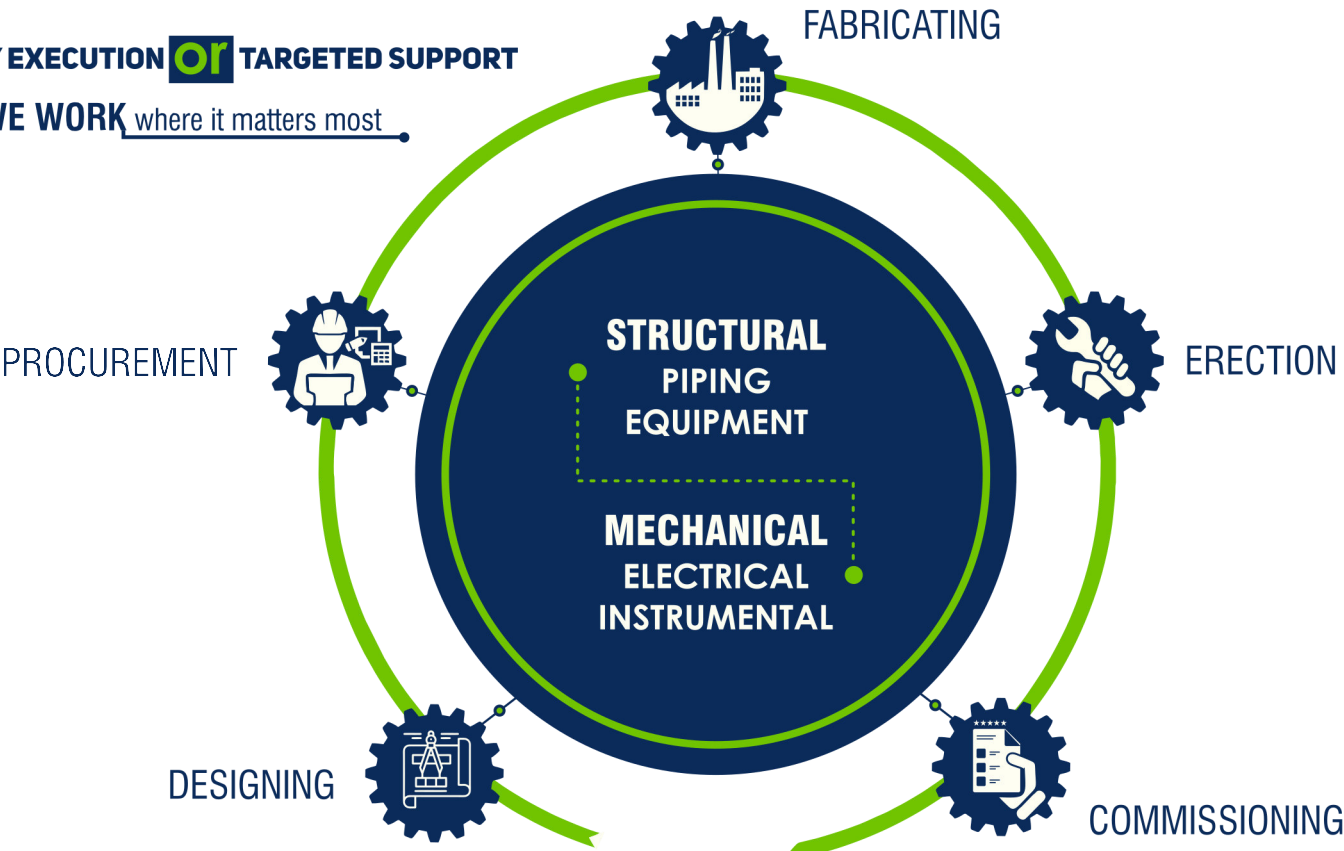
KEY ACHIEVEMENTS

- 2,500+ NAKS-certified professionals
- 100% schedule adherence
- 99% + retention rate

FROM CONCEPT TO COMMISSIONING

TURNKEY EXECUTION **or** TARGETED SUPPORT

WE WORK where it matters most



PEOPLE BEHIND **THE VISION**

RAM KISHORE Founder & CEO

A mechanical engineer with over 20 years of experience in Oil & Gas, Power, and Fertilizer sectors. He has executed international projects across Yemen, Iraq, Turkmenistan, Russia, and Mauritius, with firms like BHEL, NTPC, SAIPEM, Renaissance, and Pondera. His expertise spans Mechanical, Piping, Pipeline, Equipment Handling, and E&I installation.

ANAND ALAGARSAMY Director – Engineering Services

With 15+ years of experience in engineering design for Power and Oil & Gas projects, Anand has worked extensively across Korea, Japan, UAE, Singapore, Vietnam, Germany, and more. He is highly skilled in design and analysis software and engineering standards.

DHANUSHKODI DURAI General Manager – Projects

A civil engineer with over 21 years in the Oil & Gas industry, managing projects for SAIPEM, ESSAR, ARAMCO, and UN OIL. He brings deep expertise in project planning, estimation, subcontracting, cost control, and execution across the Middle East and Asia.

PRABHAKARAN BALASUBRAMANIAN Project Manager – Construction Operations

With 12+ years of experience in Oil & Gas, Power Plants, and Fertilizer sectors, Prabhakaran has delivered projects for TECHNIP, LINDE, and Renaissance in Russia, Turkmenistan, and Siberia. He specializes in piping, mechanical systems, and E&I commissioning.

SARAVANABHAVAN SUNDARAJAN Production Head

Bringing over 28 years of experience in fabrication, piping, and structural works for Oil & Gas, Power, and Defence sectors. He has led major projects with Siemens, L&T, Gama, and Weatherford across India, Saudi, Singapore, Egypt, Iraq, and Bahrain.

CLIENTELE **SERVING INDUSTRY LEADERS**



OPERATIONAL HIGHLIGHTS **PROJECT PORTFOLIO**

- USLUGA GPP, Saint Petersburg, Russia.
- Chemicals and Polyethylene Plant, Nizhnekamsk, Russia.
- Tarapur Atomic Power Station I & II
- Defence Project, Pune.





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