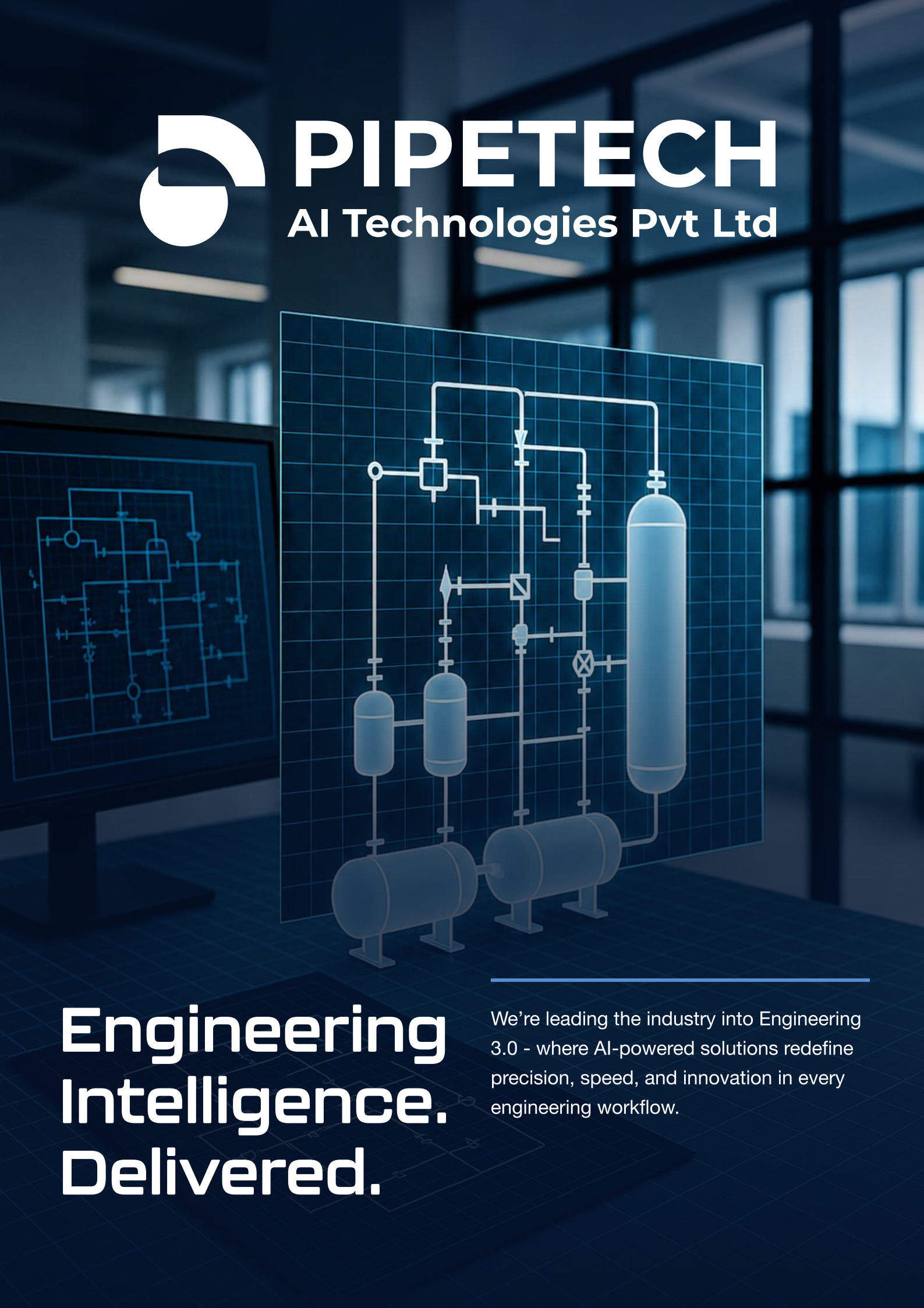
PIPETECH

AI Technologies Pvt Ltd



Engineering Intelligence. Delivered.

We’re leading the industry into Engineering 3.0 - where AI-powered solutions redefine precision, speed, and innovation in every engineering workflow.

About Us

Pipetech AI Technologies Pvt. Ltd. is redefining the future of industrial execution through full-stack super intelligence. Based in Navi Mumbai, India. We are a deep-tech engineering company Backed by industry leaders.

Vision & Mission

To advance AI-native engineering through intelligent tools that digitize, optimize, and automate industrial workflows responsibly and efficiently.

To empower industries with AI solutions that reduce design time, prevent failures, and improve accuracy across piping, mechanical, electrical, and civil engineering.

We Build the Future

Building on decades of engineering expertise, Pipetech AI is driving a new era of intelligent engineering where machines understand drawings, optimize layouts, predict failures, and generate outputs autonomously. From digitizing brownfield plants and preparing EPC tenders to optimizing cable and piping routes, our AI-powered tools automate complex tasks, streamline workflows, and enhance engineering efficiency.

Engineering 1.0 was paper › Engineering 2.0 was CAD › **Engineering 3.0 is AI.**



Streamlining project planning and execution with AI.



Optimizing power systems and electrical networks.



Enhancing plant efficiency through intelligent solutions.



Driving efficiency across complex energy operations.



Automating design and optimizing mechanical systems.



Enabling smarter, faster, and automated operations.

PROJECT PORTFOLIO

(Project Portfolio is provided by our parent company
Pipetech Engineering Solutions)

Clients	Projects	Duration (months)	Man-Hours
Nuclear Power Plant			
NRB, BARC	Detailed Engineering for Integrated plant at Tarapur	30	2,50,000+
NPCIL Mumbai	Engineering Design at NPCIL Mumbai	18	1,03,680
NRB, BARC	3D Modelling for AVS Annex plant	8	15,360
HWD, BARC	CADMATIC 3D for HWD BARC	6	4,500
NRB BARC	Drawing Preparation for NRB BARC Block	12	7,000
Oil & Gas			
Yamal LNG, AHIC Carrier UAE	3D PDMS Design for LNG	30	2,50,000
Stanlow Oil, Costain	Mogas Pipeline Upgrade	6	8,400
IOCL Paradip, LTHE	Slurry Cracking Unit Design	6	14,400
HRRL, ZEECO India	VRU Units for HRRL	6	29,500
BHEL India	6 Compressor units for BHEL	6	28,000
KNPC, LTHE	3D Intelligent Modeling for Gas Oil Desulphurization	12	20,736
IOCL Haldia	Piping & Mechanical Design for IOCL Haldia	18	13,824
IOCL Haldia	Boiler Recalculation for IOCL Haldia	4	1,600
ADCO, GS Eng.	GAD Extraction on PDS	2	6,144
HPCL Mahul, Petrocon	As-built 3D for HPCL	4	4,608
MRPL Mangalore	CSA Engineers to MRPL	12	27,648
TKIS India	Engineers to TKIS India	12	15,000

Water Treatment

Clients	Projects	Months	Man Hours
IOCL Paradip, Ion Exchange	ETP Plant for IOCL	12	14,400
RIL, VA Tech Wabag	SWRO Plant RIL	12	16,400
NRL, Ion Exchange	DM CPU Plant for NRL	12	21,700
IOCL, HDO	DM CPU Plant for NRL	12	21,700
RIL, VA Tech Wabag	UF RO Plant RIL	6	8,064
RIL, Thermax	ETP Plant RIL	6	7,400
Severn Trent UK, Costain	AECOSim for FINHAM WTP UK	6	5,000
Severn Trent UK, Costain	AECOSim for Minworth WTP	4	4,600
Severn Trent UK, Costain	AECOSim for Swalecliff	4	4,600
NRL, Ion Exchange	Filtration Plant for NRL	4	4,600

Infrastructure & Chemical

Clients	Projects	Months	Man Hours
RIL, Ion Exchange	Stress Analysis SWRO/ETP	6	9,216
Thermax Ltd	RWTP Project Hazira	8	10000
NRL, Ion Exchange	DM CPU Plant for NRL	12	21,700
Network Rail UK, Costain Oil & Gas	London Bridge Station& Gas	12	21,700
Asain Paint Ltd, Jacobs India	PDMS for Vizag Plant	12	36,800
Asain Paint Ltd, Jacobs India	PDMS for Maisur Plant	12	27,600
Tata Consulting Engineers	3D for BASF Plant	6	8,800
Tata Consulting Engineers	PDS to PDMS for Chemical	6	3600

*(*Above Project Portfolio is provided by* Pipetech Engineering Solutions)

Our Products

An AI-native product suite designed to streamline engineering design, documentation, analysis, and knowledge management for modern engineering teams.

PTeck P&ID
Intelligent P&ID design, validation and MTO automation.

PTeck P&ID PRO
Advanced P&ID and PFD engineering automation.

PTeck MechaData
Connect engineering data, design & equipment.

EKB
Your AI-powered engineering knowledge assistant.

EdgePilot Tender
Analyze tenders, risks and bids intelligently.

EdgePilot CAD
Design faster with natural-language CAD commands.

DocuMind Auto
Transform engineering documents into structured data with AI-powered next-step recommendations.

DocuMind Pro
Converts raster engineering drawings into editable DWGs, with autonomous, AGI-driven decision-making.

DesignOpt Net
Optimize pump piping layouts with AI.

DesignOpt Clash
Detect and resolve 3D engineering clashes faster.

Stressa Live
Real-time AI-assisted piping stress analysis.

Stressa Live Pro
Optimize piping systems with AI-driven stress intelligence.



Custom X
Custom AI-powered engineering solutions for complex enterprise workflows.

- Custom enterprise solutions
- Configurable engineering workflows
- Seamless system integration

Our Solutions

Purpose-built solutions combining core engineering and AI to address real-world industrial challenges

Core Engineering

Detailed Design



- Expertise in Piping, Mechanical, Civil, Electrical, and Instrumentation Engineering
- Innovative plant and equipment design
- Integrated civil, rebar & RC detailing
- Automated Systems with top-tier integration facilities

Reverse Engineering



- Advanced 3D laser scanning technology
- Products from Faro, Z&F, Leica etc.
- Use of advanced 3D modeling tools
- Point-cloud-to-bubble-view conversion
- Conversion into intelligent 3D models
- 2D Documentation

Analysis & Optimization



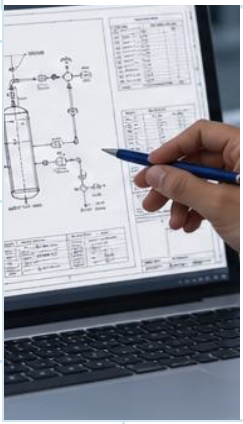
- Pipe Stress Analysis using CAESAR-II & Auto Pipe
- Surge analysis using Pipenet
- Structural analysis using STAAD.Pro
- Asset and plant optimization
- Static & Dynamic Analysis

3D Modelling



- All-in-one intelligent modeling with tools like SP3D, PDMS, Aveva E3D, Cadmatic, AutoPLANT, Revit, BIM, Tekla, Ansys, Caesar-II, and more
- Advanced administration and project management services
- Rapid catalogue and library creation.

2D MODELLING



- Preparation of 2D drawings across engineering disciplines
- Digitization of Engineering Documents
- Use of AutoCAD and MicroStation
- Quality checks in accordance with internal and client standards

As Built Engineering



- On-site tracing and sketching
- CAD drawing updates and revisions
- Data Management
- 2D Drafting with high Accuracy Piping, Mechanical, Civil & Structures, Electrical & Instrumentation, Architectures, Public Health, Safety, MEP, RC, Lightening, O&M, etc.

Technologies We Work With

HEXAGON · Bentley · CADMATIC · AVEVA · AUTODESK

AI Upgrade

Our proprietary AI systems are designed to complement and enhance core engineering not replace it. Built with domain-specific logic, they accelerate workflows, automate tedious tasks, and enable data-centric decisions across both greenfield and brownfield projects.

Agentic AI

Process | Mechanical | Electrical | Piping | Instrumentation | Civil

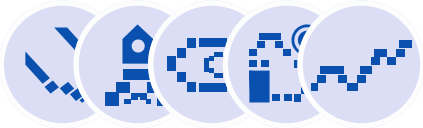
Agentic AI includes Piping, Mechanical, Civil, Electrical, Instrumentation, and Process agents. Each are designed on engineering standards, domain logic, and construction-ready outputs – enabling faster, smarter execution. It acts as a assistant for your engineering experts, automating tasks like routing, load validation, and compliance checks.

Traditional Outputs

Documents such as Isometrics, MTOs, BOMs, load lists, foundation layouts, SLDs, and datasheets.

Upgrading Benefits

Automated routing, clash detection, compliance checks, and streamlined engineering workflows.



PTeck , Stressa, EdgePilot, DesignOPT & Documind Models

Built for reverse engineering and data digitization, these AI-powered solutions extract valuable information from legacy engineering files, including PDFs, DWGs, and scanned P&IDs. PTeck automates layout generation, Stressa maps engineering logic and connectivity, while DocuMind handles tag classification, EdgePilot streamlines tender analysis and CAD workflows, DesignOPT optimizes piping layouts and detects clashes, asset linking, and data validation to support further design and analysis.

Traditional Outputs

Digitized 2D/3D files, verified P&IDs, tag lists, base documentation for further detailing

Upgrading Benefits

Faster digitization, tag extraction, logic mapping

Why Pipetech AI Technologies?

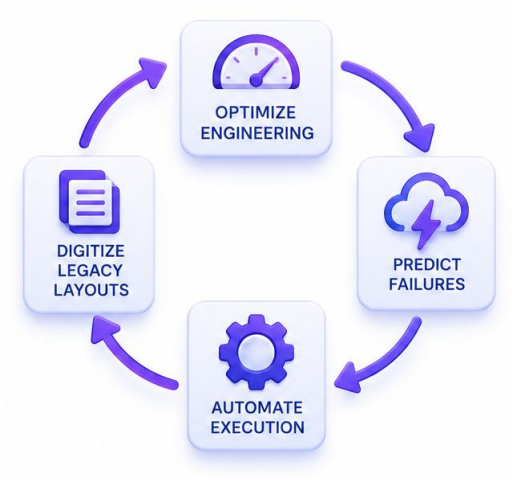
Domain-Integrated AI Engineering

Solutions co-developed with piping, civil, mechanical, and instrumentation engineers

Designed to support code compliance, safety standards, and process accuracy

AI models tailored to handle discipline-specific data formats and workflows

Full-stack Intelligence



We close the loop with actionable insights!

Outcome-Driven, Modular Pricing

Pay for outcomes, not unnecessary features.
Here's how we deliver cost-effective solutions.



**Costs shown for illustrative 12-month EPC project

Built to Scale Engineered for Speed

- Parallel data processing for multi-site rollouts
- Fast rendering and real-time AI validation
- Enterprise API-ready

Cloud-Native, Zero Maintenance

- Access anywhere, no heavy IT load.
- 100% cloud-native architecture
- No bulky installs or license management
- Secure access to digitization, design, and analytics tools from any device
- AES-256 secure encryption & role-based access

CAD & Standards Compliant

- Supports DWG, IFC, Revit, PDF, BIM
- Aligned with ISO, ASME, IEC and client-specific codes
- Seamless interoperability with your existing CAD ecosystem

NOTABLE WORKS & RECOGNITION

- **Railway and Infrastrcuture-** Have developed one of the most extensive infrastructructure in the world including roadways, bridges, railways and the communication system. We have proved our competency with network rail, where our major projects where our expert team demonstrated excellency, is London Bridge Station. Wherein, we were nominated as supply chain partner for the year 2018

- **Oil & Gas-** Our technical credibility is established with out project excellence in Stanlow refineries , Moogas Plant & Uniper power plant. These projects executed in UK.

- **Water Treatment Plant:** We are experts in designing plants of Industrial Waste Water Treatment and Utility Water treatment, Commercial water treatement, Sewage Water treatment, Affluent Water Treatment. The sucessfull completed project are Finhem, Sevren Trent and Thames Water.







PROJECTS

- **Engineering Service Consultancy – VI Of Integrated Nuclear Recycle Plant, Tarapur**

Owner: Bhabha Atomic Research Center (BARC)
Scope: Multi-disciplinary Engineering Consultancy : services for 18 blocks of NRP, Tarapur
Location: Mumbai, India
Software: SSPIPE, Cadmatic, AutoPIPE
Man Hours: 1,80,000 during 18 months

- **As built Documentation of London Bridge Station**

Owner: Network Rail
EPC: Costain Oil, Gas and Power Limited
Package: Architecture, Civil & Structures, Mechanical, Electrical and Public Health drawings
Location: London, UK
Software: AECOSim, ProjectWISE
Man Hours: 28000+

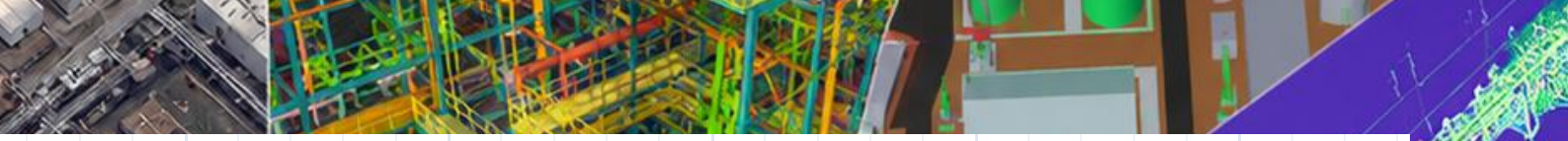
- **IndResidH 850 Kg/hr Slurry Resid Hydro Cracking Unit**

Owner : Indian Oil Corporation Limited (IOCL)
EPC : L&T Hydrocarbon Engineering Limited (LTHE)
Scope : Piping Design, 3D PDMS Modelling of Piping , Electrical, Instrumentation, HVAC, Fire Fighting Elements , Insertion of TEKLA Model from Civil and Structures , Piping stress Analysis and As-Built Engineering
Location : IOCL Panipat Refinery, India
Software : Aveva PDMS, CAESAR-II
Man Hours : 15,000

- **Savern Trent Water Treatment Facilities**

Owner: Savern Trent UK
EPC: Costain Oil, Gas & Process Ltd., UK
Scope: 3D Design of Water Treatment Facilities Within UK Such as Swalecliff, Finham Projects
Location : UK & India
Software – AECOSim & AutoCAD
Man Hours – 2600+

(*Selected Project credentials and achievements is from our parent company Pipetech Engineering Solutions)



• Essar Mogas Export Project

Owner: Essar Energy LTD (Shell)
EPC: Costain Oil, Gas & Process Ltd., UK
Scope: Piping, Civil, Design, 3D Modeling with 2D Drafting of Basic & Detailed, Design phase
Location : Manchester, UK
Software : Aveva E3D, STAAD-pro, AutoCAD
Man Hours: 18,000

• Boysun Gas Processing Plant (BGPP)

Owner : Government of Uzbekistan
EPC : Enter Engineering, Uzbekistan
Scope : Piping stress Analysis, Structural Support design,Flow Induced Vibrations/Acoustic Induced vibrations (FIV/AIV) and Procurement Support For Piping Speciality Items.
Location : Uzbekistan , Software : CAESAR-II
Man Hours : 35,000

• Adequate Study of Existing HP and MP Steam, Feed Water, Cooling Water Header of Thermal Power Station and Stress Analysis of HP, MP and FW Header for Capacity Enhancement of Boilers at IOCL, Haldia

Owner: Indian Oil Corporation Limited (IOCL)
Duration: 3 months , Location: Haldia, India
Software – CAESAR-II, AutoCAD
Man Months – 8+

• Yamal LNG

Owner: Novatek, Total, CNPC EPC - AHIC, Sharjah ,
Capacity : 16.5MTPA of Gas Condensates
Module : MR1/MR3/MR4
Location : Yamal peninsula, Russia
Software : PDMS , Man Hours- 85,000
Completed Year: 2017

• J3MM Expansion Program

Owner : Reliance Industries Limited
EPC : VA Tech Wabag
Package : SWRO-PT/UF/RO@3000cu.m/hr
Location : Jamnagar, India , Software :PDS
Man Hours :17,500 , Completed Year: 2017

• SWRO

Owner : Reliance Industries Limited
EPC: VaTech WABAG, Capacity - 1000 M3/hr
Location: Jamnagar, India , Software: PDMS
Man Hours: 10,500 , Completed Year - 2017

• Gasification Project From Jamnagar 3

Owner: Reliance Industries Limited
EPC: Zeeco India Ltd.
Package: Flare Package, Gasification DTA
Location: Jamnagar, India , Software: PDS
Man Hours : 7000 , Completed Year: 2015

• Detail Engineering of Paint Manufacturing Complex

Owner: Asian Paints Limited , EPC: Jacobs Engineering , Capacity: 1000KLPD
Package: Water Based Paint Block + Admin Building
Location: Mysore, India & Vaizag, India
Software: PDMS , Man Hours: 45,000

• Caprolactum Distillation, Project, GSFC

Owner : GSFC , EPC: Simon India Ltd.
Capacity: 50000 MTPY , Location: India
Software: Bentley AutoPlant
Man Hours : 4,000 , Completed Year: 2016

• DMCPU of IOCL Paradip

Owner: GSFC , EPCL: Simon India Ltd.
Capacity: 50000 MTPY , Location: India
Software: Bentley AutoPlant
Man Hours: 4,000 , Completed Year: 2016

(*Selected Project credentials and achievements is from our parent company Pipetech Engineering Solutions)



CLIENTELE



(*Most of our clients relationship are done through our legacy parent company* Pipetech Engineering Solutions *while we hold some of NDAs and future prospect solutions towards* Pipetech AI Technologies)

Work With Us

Specialized AI solutions for the modern engineering firm.

sumedh@pipetechaitechnologies.com

+91 74477 34888

www.pipetechaitechnologies.com

C wing 612 office Rupa solitaire, Lift-no-13,14, MBP Mahape, Mahape, Thane - 400604

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