



# PLECO

*Pipeline Engineering Consultants Pvt. Ltd.*



## About PLECO

Pipeline Engineering Consultants Pvt. Ltd. (PLECO) is a company composed of highly experienced individuals with expertise in various fields such as Project Management, Pipeline Design, Process, Civil & Structural Engineering, Electrical & Instrumentation, Rotating & Static Equipment, and Cathodic Protection.

PLECO offers comprehensive solutions in Design, Engineering, and Project Management consulting for cross-country Pipeline Systems, Gathering Systems, Pump and Compressor Stations, as well as CGD (City Gas Distribution) and CNG (Compressed Natural Gas) stations.

PLECO is a dynamic company founded by talented group of engineers with extensive experience in Designing, Constructing, and Operating innovative Pipeline Projects since 1990s.

Over time, PLECO has evolved into a multi-disciplinary service provider, offering a wide range of services that cover all aspects of the oil & gas industry project cycle.

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In terms of its engineers, consultants, and designers, these professionals possess a wealth of global experience, which equips them with the ability to effectively and successfully tackle any challenges that may arise.

Additionally, PLECO benefits from a wide-reaching network of industry professionals, enabling them to allocate and mobilize the appropriate resources that are best suited for each projects as and when required.

Our strategy is forged from our beliefs in Accountability, Commitment to Customers, Quality, Teamwork, Value Engineering, and Constant Improvement. This belief is reflected in our business practices, operations, and client engagement.

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# ***PLECO at a Glance***

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- Capability assessment of entire Gas Network of 730km pipelines of AGCL
- In service repair of DNPL pipe 18 x 195 km
- Reverse engineering of 680 km pipeline
- Basic & Detailed Engineering completed for 2 x 130 km cross country pipeline.
- EPMC Services for two pipeline projects 8" x 5 km
- EPMC Services for 12" x 130 KM (BCPL PROJECT) Pipeline for Assam Gas Limited
- EPMC Services for 16 x 55 km pipeline to DNPL
- Pre Bid Engineering Services- For Saudi Amamco MGS Projects- 56 " 170 KM 600# , 16" 310 Km, 600# ,14" 88 Km 600# , 10" 27 Km 600# , 4" 46 Km 600# 30" 58 Km 600#, 16 " 113 Km 600#
- FEED & Basic Engineering for Dehydration Station
- Engineering for Micro Tunnelling
- CGD Projects for Mother Station/ DBS

# KEY MEMBERS



**Mr. Suresh Kumar**

37 Yrs. of Experience in EIL / L&T in National as well as International projects in Project Management, Piping and Pipeline Engineering fields.



**Mr. Anupam Das**

Head – Engineering, has over 30 years of experience in EIL & L&T of Onshore Pipelines, Compressor, Pumping stations and related facilities



**Mr. KB Krishnan**

EX CEO of L&T. Having 39 Yrs. of Project Management Experience in EIL & L&T



**Mr. Ravi Bhatnagar**

39 years of Experience working for EIL & L&T in Civil & architectural Design.

# KEY MEMBERS



## **Mr. Ashok Singh**

Leading Pipeline  
Process team In EIL  
Over 38 Yrs.  
Experienced in all kind  
of Pipelines (Gas,  
Crude, Multiproduct,  
LPG etc.).



## **Mr. A. K. Agarwal**

Experience of over 40  
years in all sectors of  
Hydrocarbons: Oil & Gas  
Upstream, Downstream,  
Refineries,  
Petrochemicals, Oil and  
Gas Processing, Cross  
country Gas / liquid  
Pipelines



## **Mr. Sanjay Gupta**

Over 37 years in the  
field of Electrical  
engineering & Cathodic  
Protection and has  
worked on numerous  
projects of National and  
International importance.



## **Mr. R. N. Rai**

He has over 38 years  
design and engineering  
experience in Rotating &  
Static equipment in  
companies like  
L&T-GULF Pvt. Ltd.,  
Saipem Triune  
Engineering Pvt Ltd.

# KEY MEMBERS



**Mr. Ram Bhagwan Sharma**

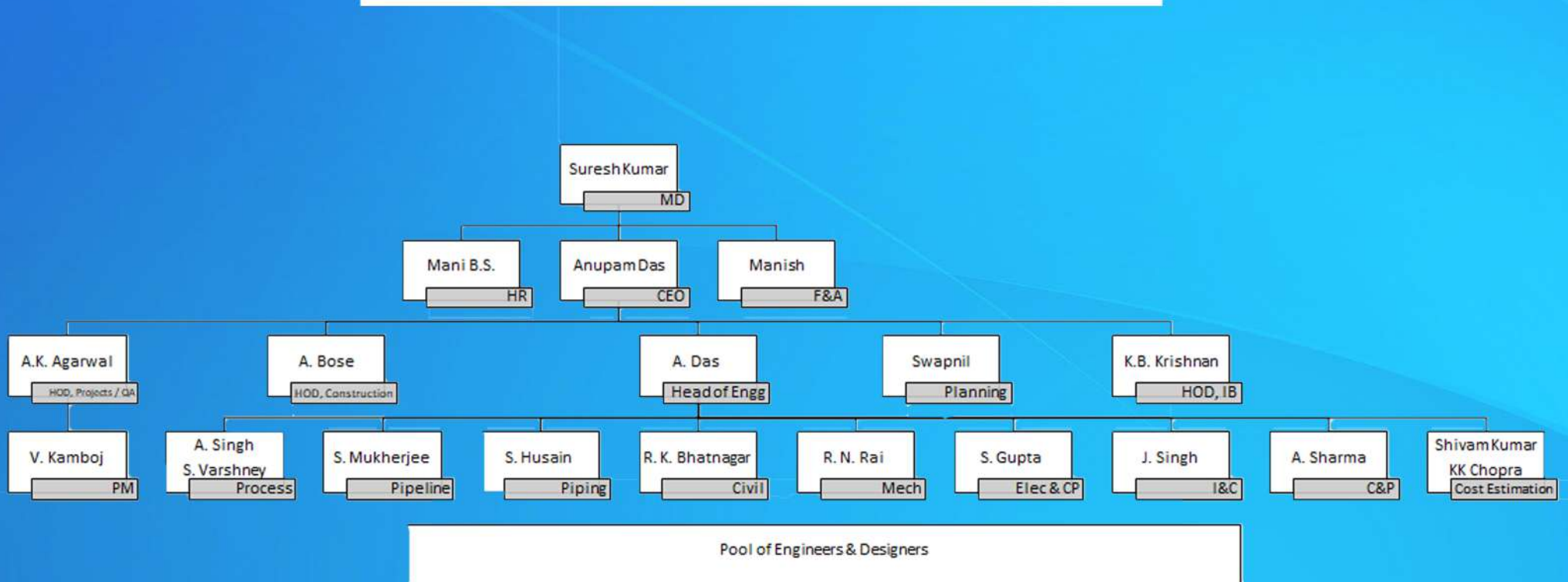
Over 35 years of experience in Structural Engineering having been associated with reputed organizations



**Mr. C. M. Sarvaiya**

Over 40 years of experience in Civil & Architectural Engineering having been associated with reputed organizations

# COMPANY ORGANOGRAM







**Vision, Mission,  
Core Value & Objective**



## ***Vision:***

To be a leading global service provider of innovative & sustainable pipeline and facilities design engineering solutions, ensuring safe and efficient transportation of products for a better future.

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## **Mission:**

**We are dedicated to delivering exceptional pipeline design engineering services that meet the highest industry standards for safety, reliability, and environmental stewardship. By leveraging our expertise, advanced technology, and collaborative approach, we aim to optimize the efficiency and integrity of pipeline systems, supporting the growth and sustainability of our clients' operations.**

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## Core Values:

- **Excellence:** We strive for excellence in all aspects of our work, upholding rigorous engineering standards, and delivering solutions that exceed client expectations.
- **Safety:** We prioritize the safety of our team, clients, and the communities impacted by our projects. We adhere to stringent safety protocols and industry best practices throughout the design and construction process.
- **Innovation:** We embrace innovation and leverage cutting-edge technologies to drive continuous improvement in pipeline design engineering. We actively seek out new approaches and solutions to enhance efficiency, value engineering to client, reduce environmental impact, and address evolving industry challenges.
- **Collaboration:** We foster a collaborative culture that values teamwork, open communication, and partnerships. We believe that by working together with our clients, stakeholders, and industry experts, we can achieve optimal outcomes and deliver exceptional results.

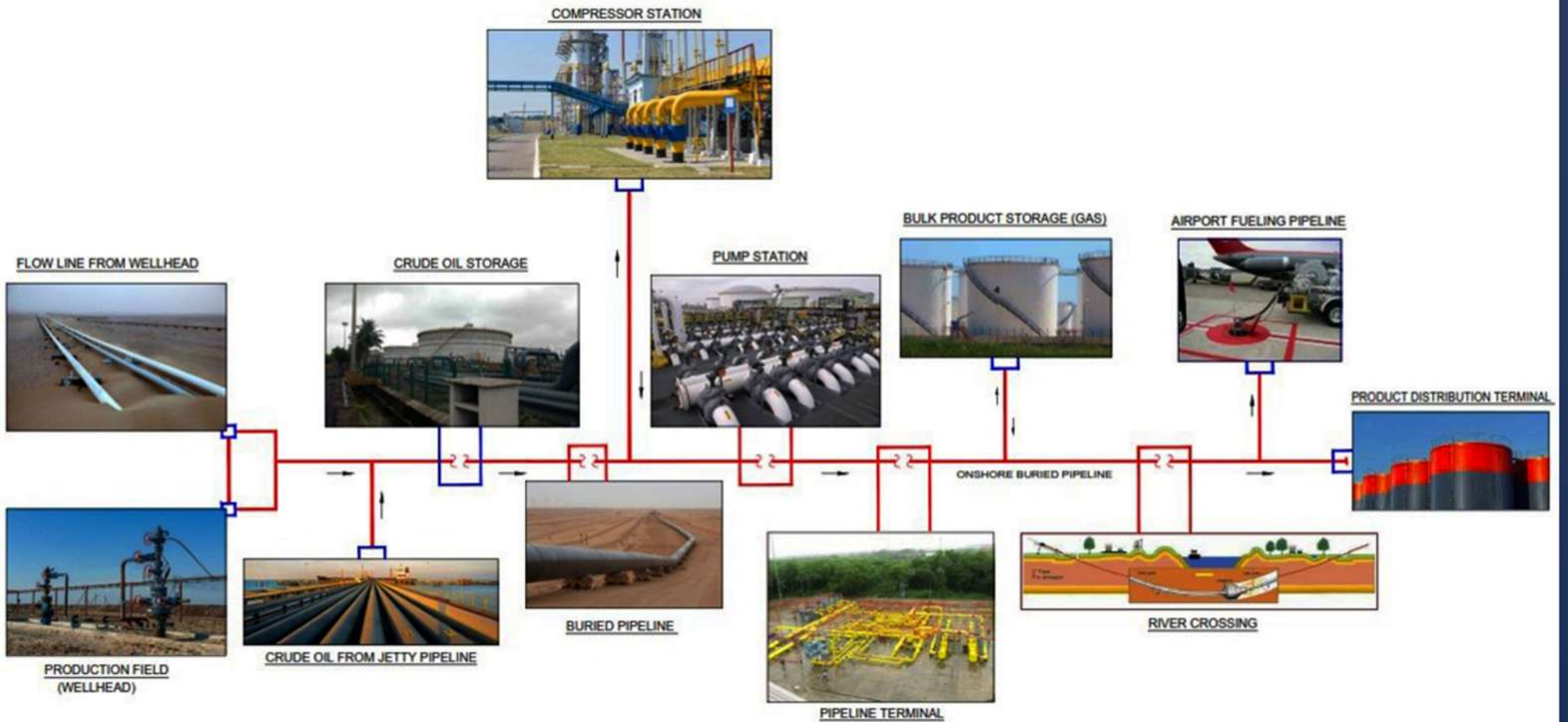
## Objectives:

- Provide comprehensive pipeline and facilities design engineering services that encompass feasibility studies, route selection, materials selection, hydraulic analysis, stress analysis, and construction support.
- Incorporate sustainable practices and environmental considerations into our pipeline design solutions, aiming to minimize ecological impact and promote resource conservation.
- Maintain a commitment to safety by implementing rigorous risk assessments, adherence to regulatory requirements, and promoting a safety-conscious culture among our employees.
- Continuously invest in research and development to stay at the forefront of pipeline design engineering technology, enabling us to deliver innovative and efficient solutions to our clients.
- Foster long-term partnerships with clients, providing responsive and personalized service to meet their unique project needs and ensure their satisfaction.





- DFR, EPMC & FEED
- DESIGN & ENGINEERING
- PROCUREMENT & EXPEDITING
- CONSTRUCTION SUPERVISION & COMMISSION ASSISTANCE

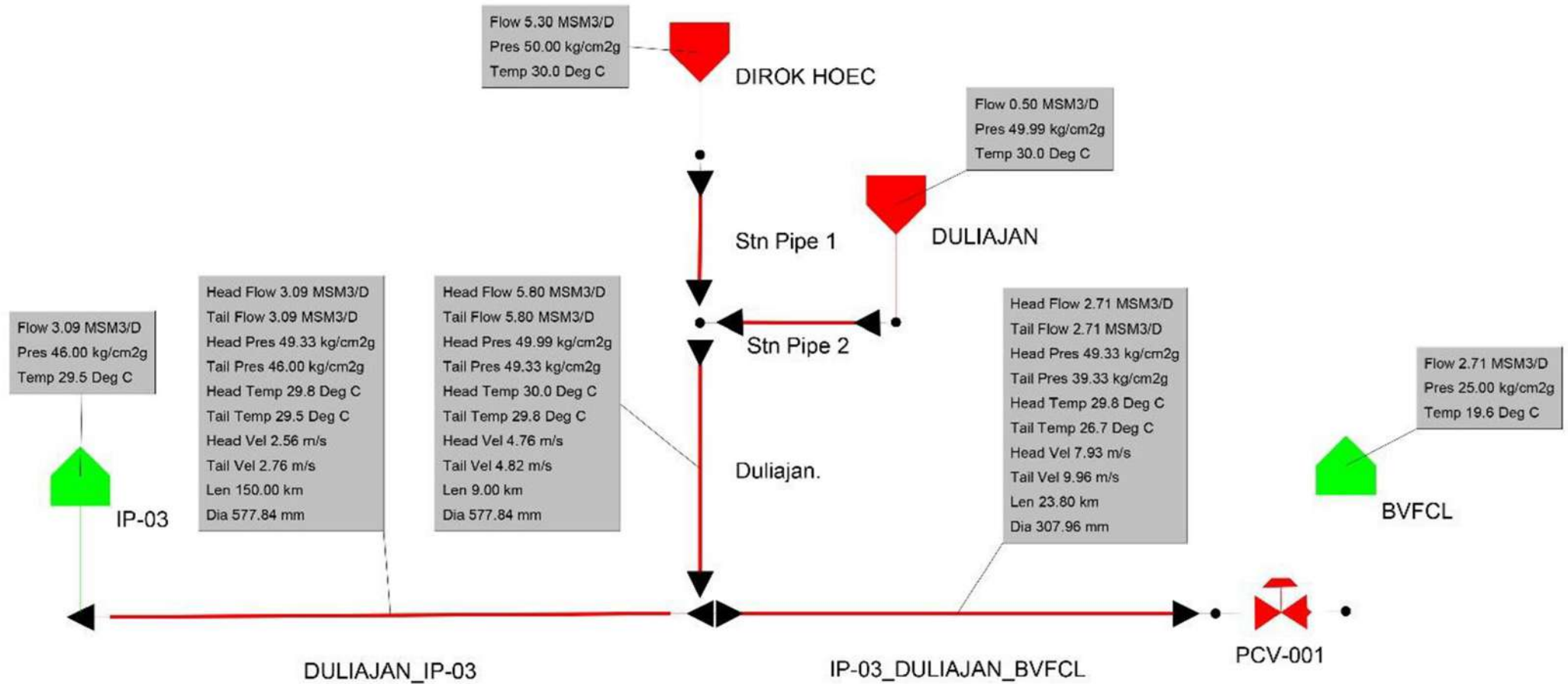




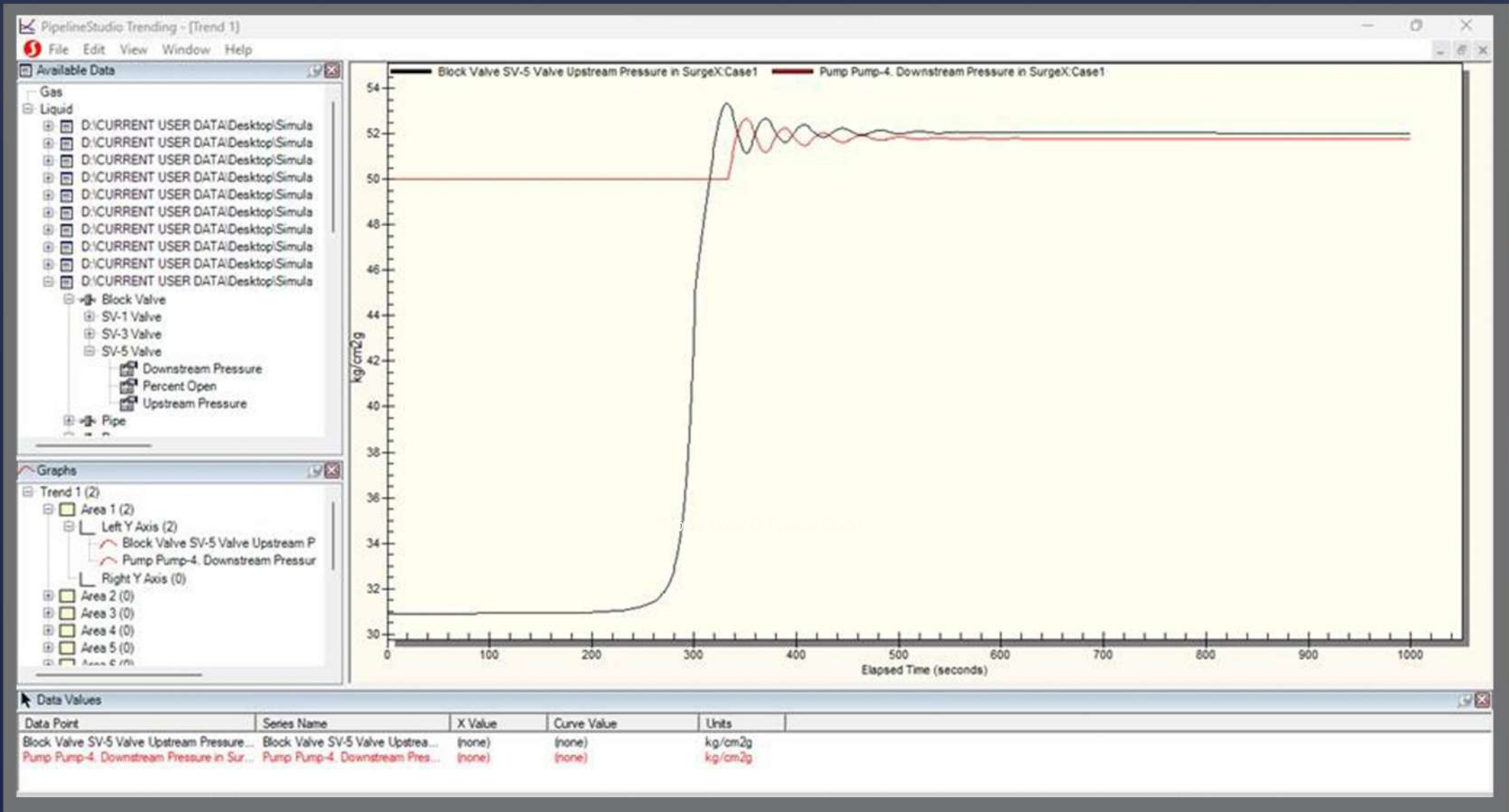
# **SPECIAL CAPABILITIES**



# STEADY STATE HYDRAULIC ANALYSIS STUDY

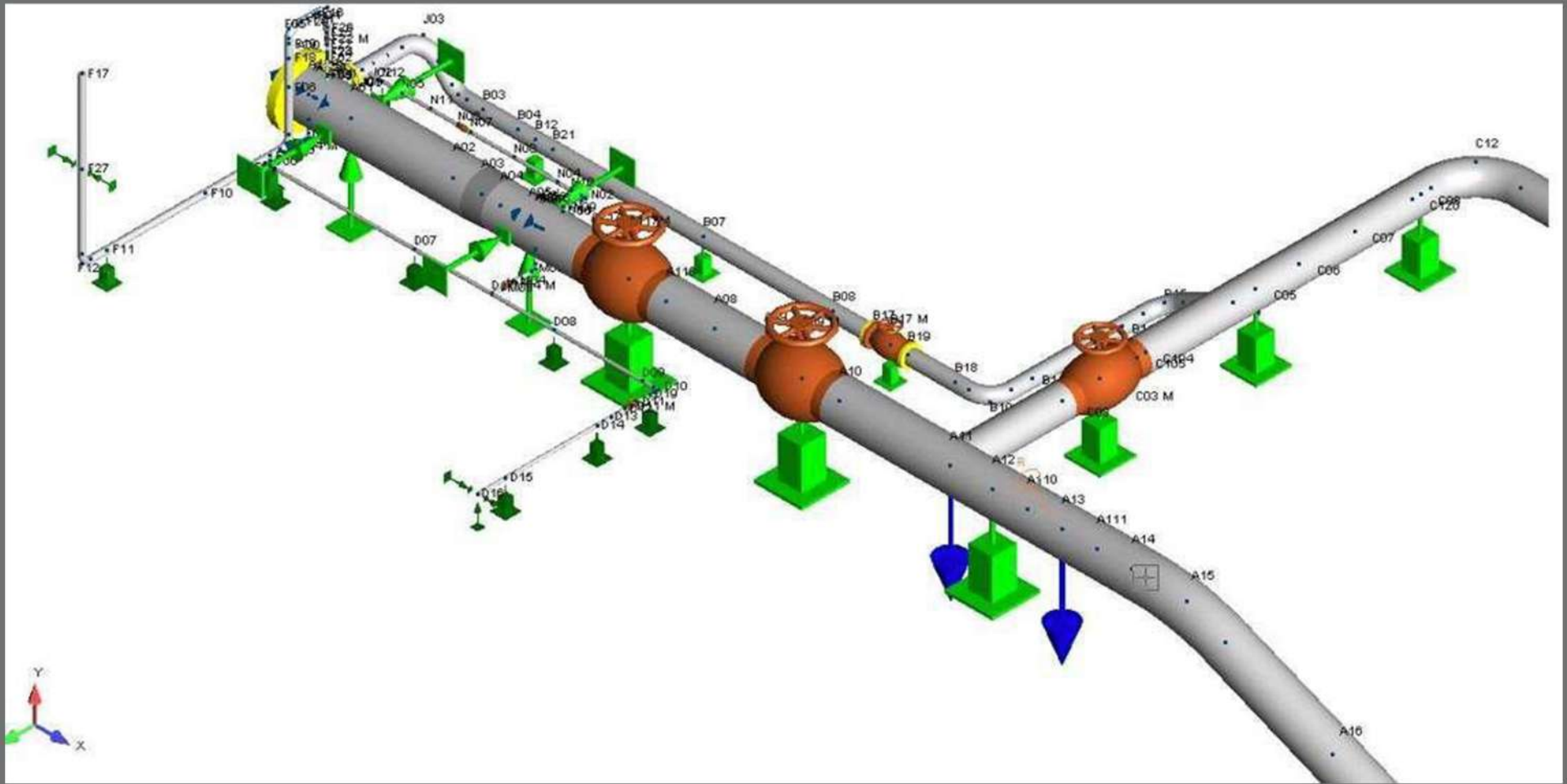


# SURGE ANALYSIS



\*Typical Model Of Pipeline Studio

# STRESS ANALYSIS



\*Typical Model

# UPHEAVAL BUCKLING



# SCOUR ANALYSIS

exposing pipes at crossings (Figure 3).

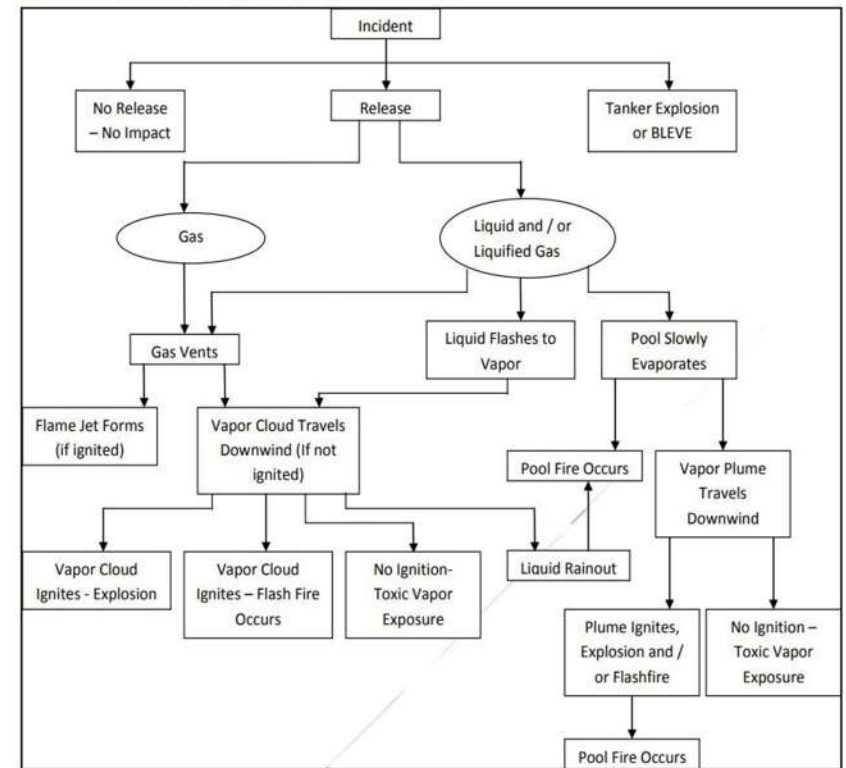


# ANTI BUOYANCY

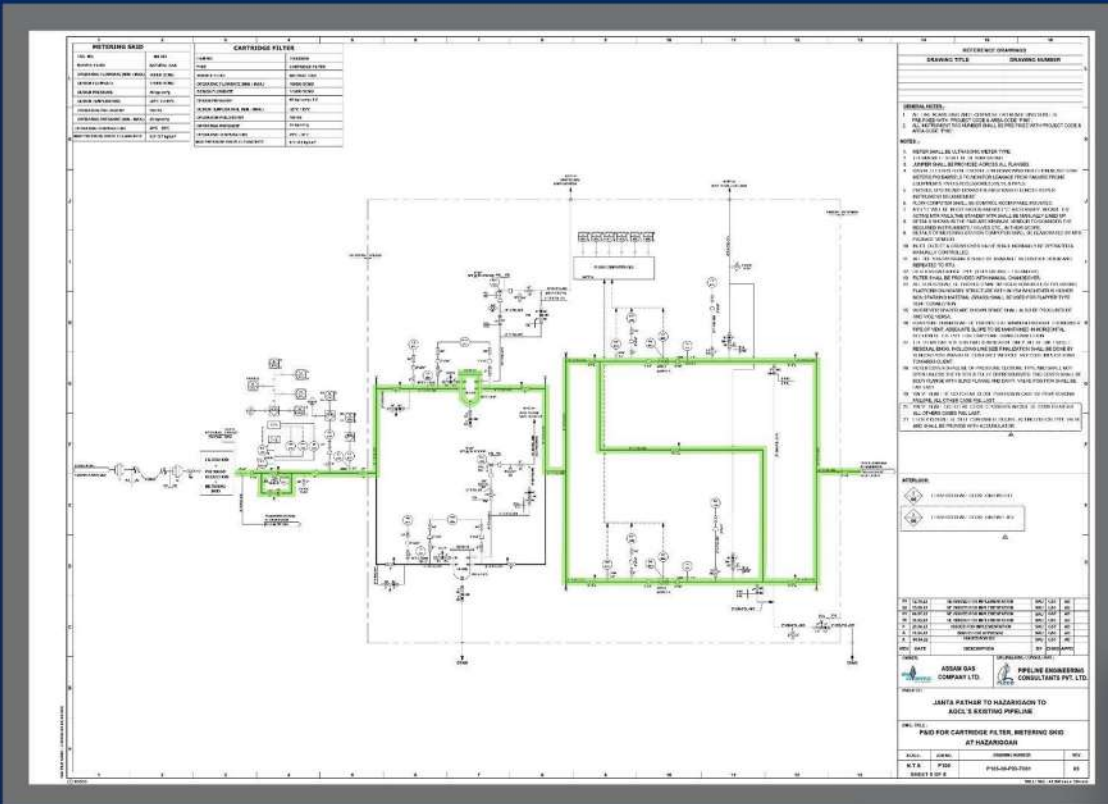


QRA

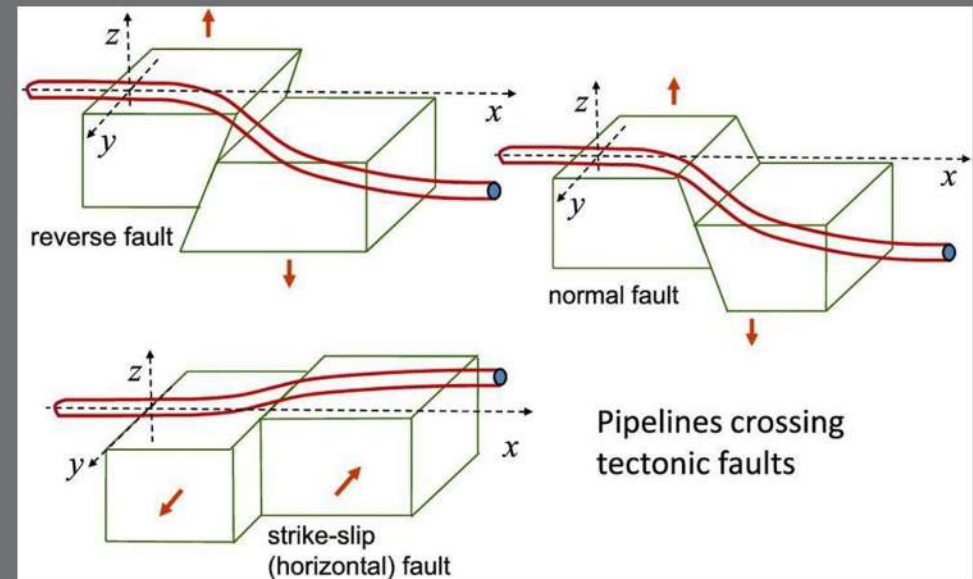
Figure 4-1: Methodology adopted for the study



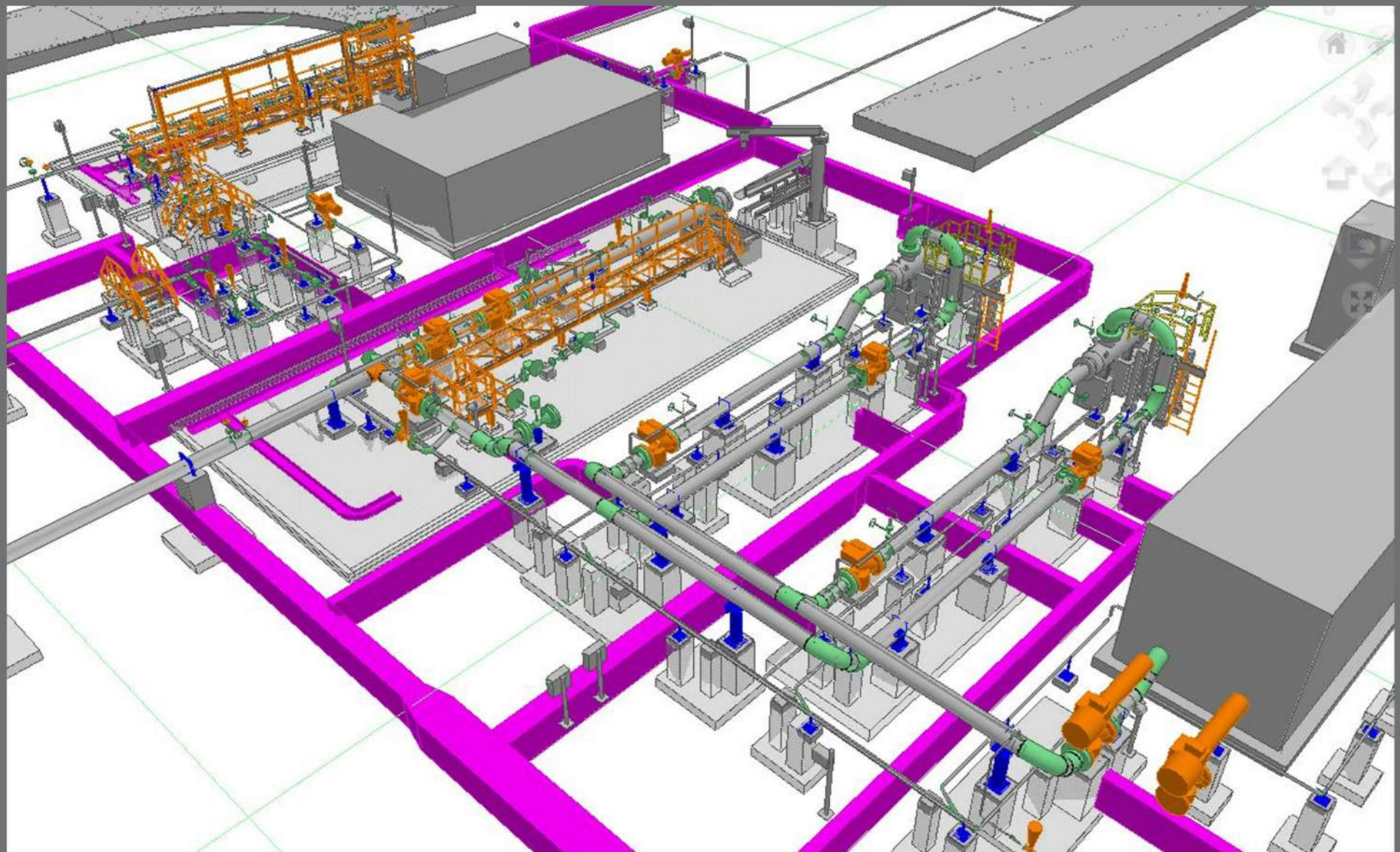
# HAZOP/ HAZID SIL



# SEISMIC ANALYSIS




# 3D MODELING



A photograph showing a long, neat stack of large-diameter black pipes in a desert environment. The pipes are arranged in multiple rows, receding into the distance. The ground is sandy and light-colored. The text "WHY PLECO?" is overlaid in large, bold, white capital letters across the middle of the image.

**WHY PLECO?**



- 
- Team comprising of Subject Matter experts with more than 250 man-years of experience in all geographical terrains.
  - Well versed with all National & International Codes.
  - Excellent Industry connect and Inter-personnel relations with all major Clients like **HPCL, BPCL, GAIL, OIL, GASCO, TAKREER, ADNOC, PDO, SAUDI ARAMCO, RIL, PIL, DNPL, AGCL** etc.
  - Contacts with majority of equipment and components suppliers.
  - We use customized approach for each of the projects.  
This allows us to achieve high quality outcomes.

# *Few National & International Projects Handled By Our Team*

Pipelines/ Gas Processing Fields/ Compressor	Scope / Size & Length	Country	Client
Barmer-Salaya- Bhogat Pipeline ( with Pump station)	24" x 664 km 8" x 450 km	India	Cairn Energy
Gas export Trunk Pipeline & Flowlines	56" x 100 km 24" to 4" x 320 km	Turkmenistan	Turkman Gaz
Bhagyam Field Development Project	08 Production 45 injections well	India	Cairn Energy
Lekhwair Gas (Duplex Stainless Steel Flow Pipeline)	16" to 10" x 50 km	Oman	PDO
Detailed Engineering for Midyan Gas Processing Facilities	16" x 83 km 4" x 45 km	Saudi Arabia	Saudi Aramco
GC-30 of Kuwait Oil Company (KOC)	6" x 212 km 35 Well-pads	Kuwait	KOC
Vijavpur-Dari-Bawana Pipeline Project (48")	2 No's Compressor Stations	India	GAIL
Dahej- Vijaypur Pipeline Project	2 No's Compressor Stations	India	GAIL
20" Pipeline for Brahmaputra Petrochemical Complex Project	1 No's Compressor Stations	India	BCPL
GREP Pipeline Projects (36")	2 No's Compressor Stations	India	GAIL
Mundra- Bathinda Crude Pipeline	30" Pipeline	India	GGDRL

# Milestone Project

PROJECT/PIPELINE	DETAILS/SIZE & LENGTH	CLIENTS
EPMC service AGCL-BCPL Pipeline Network	12"x130 km	AGCL
EPMC services for 16" x 55 km Pipeline	16"x 55 km	DNP Ltd.
Madhuban-NEEPCO Pipeline	20" x 12 km	AGCL
Metering & Regulation Stations	2 No's	Reliance (PIL)
Pipeline Simulation Studies	712 km Network	AGIL
Upgradation of Firewater Network, Pump Station & Tankages	KLL LNG Plants	KLL
Detailed Engineering of Methanol Plant	500 TPD	OVAL/ APL
Feed for Dehydration Sytem	2.4 MMSCMD	DNP Ltd.
DFRs for the Expansion of NEGG Pipeline Network	300 km	IGGL
DFR & Detailed Engineering for various Pipeline Networks	365 km	AGCL
PFR & DFR / FEED for Pipeline laying from Duliajan to Guwahati	16"x550 km	DNP Ltd.
Adequacy Check, 20 No's of Pipelines (4" to 32")	712 km	AGCL
Pre-bid engineering for 4 No's of CRPO Well pad and Flow Lines package of Saudi Arabia	46 Well pads x 363 km	L&T / Saudi Aramco
Pre bid Engineering Services for Saudi Arabia Master Gas Station expansion pipeline	56" 30" 16"10" x 766 km pipeline & 45 stations	KPTL/ Saudi Aramco

# **Man Power: Scalabilities & Availability**

- **Our permanent Bench Strength: 76 (13,680 Man hours per month)**
  - **Adjustable Strength (Scale up): Up to 1.5 times**
- **Total Strength after scaling up: 120 (21,600 Man hours per month) \***
  - **Total Capacity after scaling up: 21,600 Man hours per month\***
    - **Full time employees: 76**
    - **Deputation / Part time Employees: 44**

# Discipline Strength: Resources & Experience

Role	Experience				
	3 to 5	5 to 10	10 to 15	15 to 20	Above 20
Process	3	2		2	1
Pipeline/ Piping	4	2	4	3	3
Civil & Architectural	3	4		2	2
Mechanical Static/Rotary	1	1			1
Electrical & CP	1		1		1
Instrumentation & Control	1	1	1	1	1
Projects Control & Management	3	2	2		3
Cost Estimation		1			1
Contracts & Procurement	1	1			1
Designers	15 nos				

S.No.	Software	Description
1	AutoCAD 2020	2D Designing
2	Intergraph Smart Instrumentation	Instrumentation Designing
3	Intergraph Smart P&ID	Drafting of Intelligent P&IDs
4	Intergraph Smart 3D / PDS	3D Modelling
5	E3D/PDMS	3D Modelling
6	TEKLA	Structural load calculations
7	CAESAR II	Piping Stress Analysis

**Workstation Available: 65 No's**

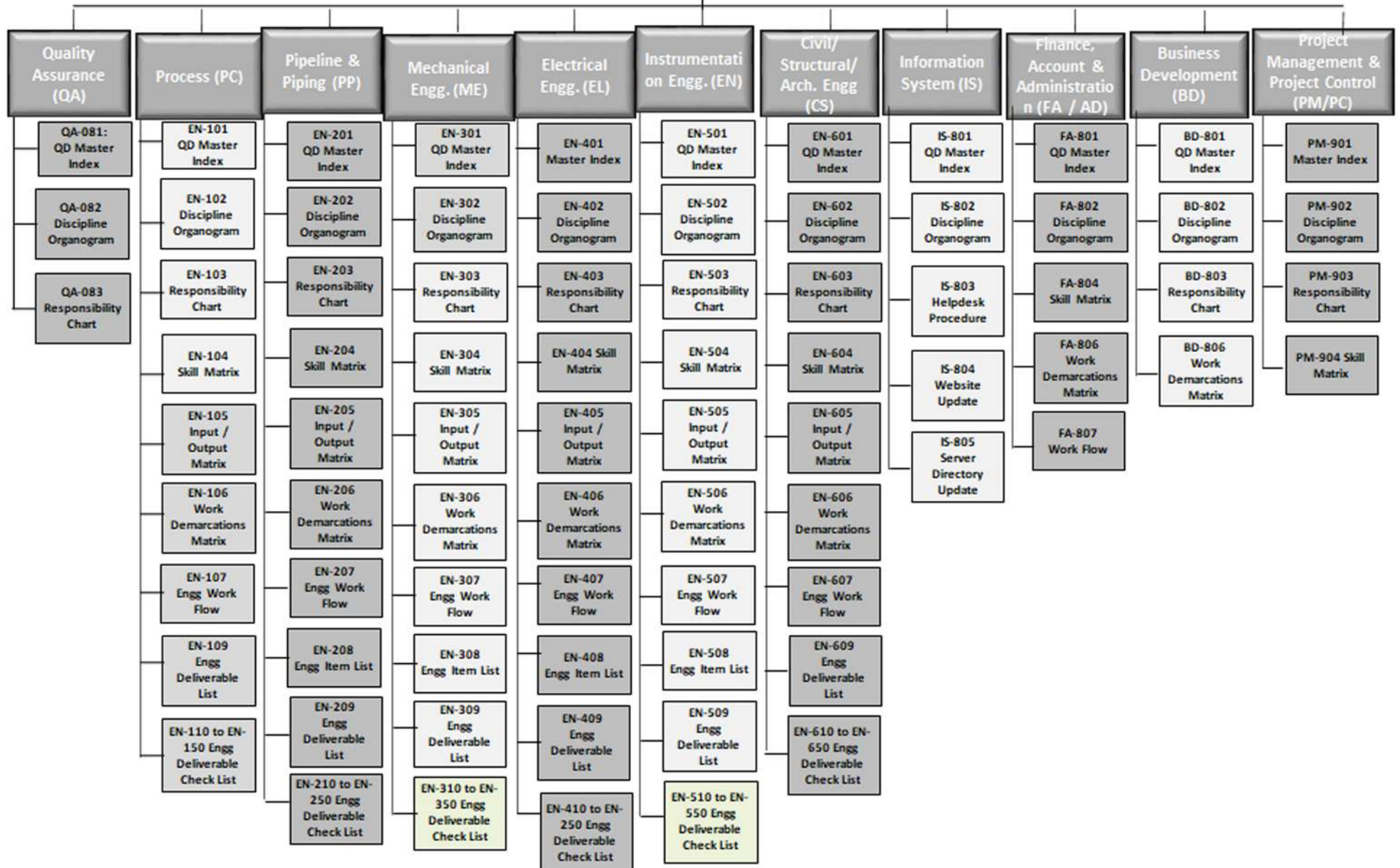
**Server Configurations:**

- **Configuration: 8 TB Cloud Server**
- **Back-Up: Online**

# QUALITY MANUAL

Quality Assurance	Engineering	Project Management	Materials Management	Construction Management	Project Control	Finance & Accounts	Business Development	Information Systems	Administration
QA-001 QA Process	EN-001 Engg/ Design Process Map	PM-001 Project Mgmt Process	MM-001 Material Mgmt Process	CM-010 Construction Mgmt Plan	PC-001 Project Control Process	FA-001 Finance & Accounts Process	BD-001 Business Development	IS-001 Website	AD-010 Org. Training & Competence Development
QA-005 Drawing & Document Numbering	EN-015 Document Review & Approval	PM-005 Project Organization	MM-010 Procurement Plan	CM-015 Construction Mgmt Review & Approval	PC-005 Budget	FA-005 Fixed Assets Mgmt	BD-020 Maintaining BD	IS-010 Help Desk Request	
QA-010 Process/ Project QA Plan	EN-020 Design Basis	PM-010 Project Execution Plan	MM-025 Vendor Approval	CM-020 Contractor Qualification	PC-010 Delivery Logs & Schedules	FA-010 Accounts Payable Process	BD-030 Proposal Process & Contract Review		
QA-020 Quality Audits	EN-025 Engineered Items List	PM-025 Project Procedures	MM-030 Procurement Services	CM-025 Construction Packages	PC-015 Manpower Deployment	FA-015 Vendor Invoice Processing			
QA-025 Non Confirming Results	EN-030 Specs & Data Sheets	PM-045 Subcontracts	MM-040 Vendor Documentation	CM-030 Bid Evaluation & Recommendation	PC-020 Project Control	FA-020 Cash & Bank Mgmt			
QA-030 Quality Documents & Records	EN-035 Material Requisitions	PM-050 Project Files	MM-045 Expediting	CM-040 Construction Mgmt	PC-025 Project Estimating	FA-025 Budget & Budgetary Control			
QA-040 Corrective/ Preventive Action Request	EN-040 Engineering Calculations	PM-060 Document Distribution	MM-055 Logistics	CM-045 Materials Control	PC-030 Project Revenue Invoicing	FA-030 Finance & Treasure Mgmt			
QA-045 Mgt. Review	EN-045 Special Engineering Reports	PM-065 Project Close-Out Report	MM-060 Receiving at Site	CM-050 Construction Mgmt Reporting		FA-035 Processing of Payroll & Employee Claims			
QA-055 Auditor Qualfn & Training	EN-050 Design Drawings	PM-070 Definition of Terms	MM-075 Close Out of Procurement Records						
QA-065 Customer Feedback	EN-055 Software Validation	PM-075 Project Opening & Closing	MM-080 Vendor Source Inspection						
	EN-095 Op. & Maintenance Manuals	PM-080 Change Order Requests							
	EN-096 Material Take-Off	PM-085 Project Archiving							
		PM-090 Project Data Books							

# QUALITY DOCUMENTS







# BUSINESS



# ASSOCIATES

With the objective of providing single window solutions, PLECO has tie-ups with our business associates having expertise in the field of Oil & Gas / Refinery / Petrochemicals / Process Plants / Water / Environment & Infrastructure whose past work experience includes working on projects namely

- MEG – Wasit Gas Plant, Saudi Arabia.
- HDS – Heater modelling.
- Sabhiya Power & Distillation Plant.
- Vedanta Gas Plant, Gujarat.



# BUSINESS ASSOCIATES

- Vapour Recovery Unit – IOCL Mathura.
- Bokaro Steel Plant Limited.

- PLECO also has a business association with approved Engineering Consultants / EPC Companies for M/s Abu Dhabi National Oil Company, M/s Kuwait National Petroleum Company and M/s Kuwait Oil Company.
- In addition, our associates also cater to domestic customers like M/s BPCL (Kochi Refinery), M/s Tata Projects Limited (Hydrocarbon Business Unit) and M/s Cairn India through M/s Halliburton and M/s Schlumberger.
- Our associates are delivering comprehensive solutions for Oil & Gas Production, Storage, Refining facilities, Petrochemical, Chemical, Water, Power facilities etc. and have executed projects in UAE, Kuwait, other Middle Eastern countries and India

# CORPORATE TEAM EXPERIENCE





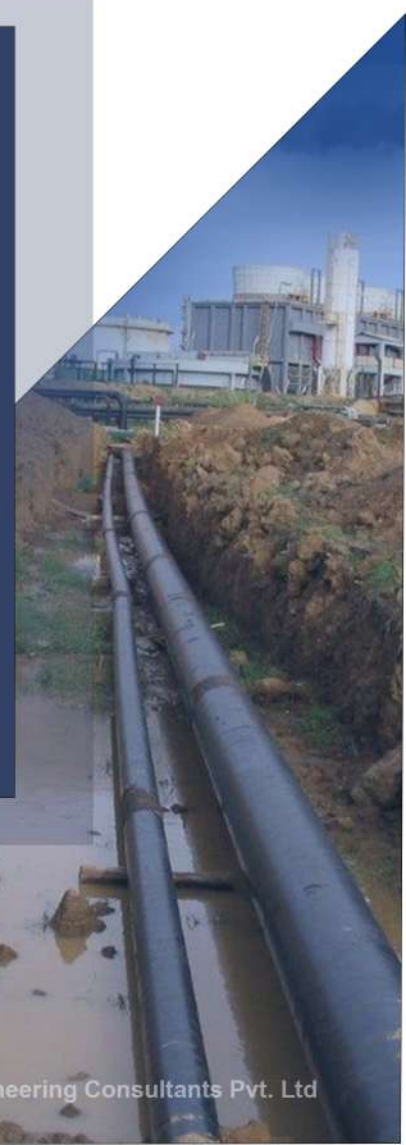


# FUTURE TECHNOLOGY DIVISION

The Future Technology Division at our Pipeline Design Engineering Company is committed to pushing the boundaries of innovation in pipeline design.

Through the integration of advanced design software, drone, technology, hydrogen pipeline and sustainable practices, we deliver state-of-the-art solutions that ensure efficient, safe, and environmentally conscious pipeline projects.

By continually exploring and embracing emerging technologies, we remain at the forefront of the industry, providing our clients with the highest standards of excellence in pipeline design engineering.





# OUR OFFERING

- **Customized Solutions:**  
We understand that each pipeline project is unique, with its own set of challenges and objectives. Our team works closely with you to understand your specific needs and design a pipeline system that best suits your requirements.

- **Experienced Team:**  
Our company boasts a team of highly skilled and experienced pipeline engineers and designers who have successfully completed numerous projects across various industries national and international. They stay up-to-date with the latest industry standards and regulations, ensuring that your pipeline design meets all safety and compliance requirements.

- **Advanced Technology:**  
At PLECO, we leverage state-of-the-art technology and industry-leading software to design and simulate pipelines with precision. Our engineers utilize advanced modelling techniques to optimize the performance and reliability of your pipeline system.



# OUR OFFERING

- **Cost-Effective Solutions:**

We understand the importance of cost-effectiveness in pipeline projects. Our team strives to design efficient systems that minimize construction and operational by doing value engineering costs without compromising safety or quality.

- **Safety and Compliance:**

Safety is our top priority. We adhere to stringent safety standards and best practices throughout the pipeline design process. Our team conducts thorough risk assessments and incorporates safety measures to mitigate potential hazards. We also ensure that our designs comply with all applicable industry regulations and environmental guidelines.

- **Timely Delivery:**

We value your time and understand that timely completion of projects is crucial. Our team is committed to meeting project deadlines without compromising quality. We follow streamlined project management processes to ensure efficient coordination, effective communication, and timely execution of pipeline design projects.

- **Ongoing Support:**

Our relationship doesn't end with the completion of the pipeline design. We provide ongoing support to address any concerns, perform maintenance checks, and assist with future modifications or expansions. Our team is dedicated to establishing long-term partnerships and ensuring your pipeline system operates optimally throughout its lifecycle.

## CONTACT US

Registered Office: A 259, Sector 31, Noida – 201301, UP, India

Corporate Office: A-56/1, Second Floor, Sector – 50, Noida  
– 201301, UP, India +91 98186 88650

[info@pleco.co.in](mailto:info@pleco.co.in)  
[pleco.co.in](http://pleco.co.in)







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