



PLECO

Pipeline Engineering Consultants Pvt. Ltd.



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COMPANY OVERVIEW

- PLECO Provides Pre-bid Engineering, FEED And Detailed Engineering Services In Process Plants (Petrochemical & Refinery), Process, Piping, Instrumentation, Electrical, Civil & Structural And HSE.
- Excellent Industry Client connect and Inter-personnel relations with all major Clients like HPCL, BPCL, GAIL, OIL, GASCO, TAKREER, ADNOC, PDO, SAUDI ARAMCO etc.
- We are well versed with all National and International Codes & Standards.
- We are immediately available to take up the assignments.
- We have contacts with majority of equipment and components suppliers.
- Our strategy is forged from our beliefs in Accountability, Commitment to Customers, Quality, Teamwork and Constant Improvement.
- We focus on Value Engineering, and conduct Value Engineering Workshops.
- This belief is reflected on our business practices, operations, and client engagement.

KEY MEMBERS

MANPOWER



Mr. Suresh Kumar

37 Yrs. of Experience in EIL, L&T & VCS in Project Management, Piping & Pipeline Design for FEED & Detailed Engineering for Pipelines, Compressor & Pump Stations.



Mr. Anupam Das

Head – Engineering, has over 30 years of experience in EIL and L&T in FEED and Detailed Engineering for Onshore Pipelines, Compressor & Pump Stations.



Mr. Ashwini Kumar

Over 35 years experience in EIL and L&T in Piping Design & Engineering in FEED and Detailed Engineering for Process Plants.



Mr. Ashok Singh

Over 38 years experience in EIL in Process Design for FEED and Detailed Engineering for Process Plants and Pipelines.



Mr. Sashi Sekhar

Over 28 years of experience in KBR, Samsung Engineering, Technip KTI, RIL in Process Engineering and Plant Safety | HSE in FEED and Detailed Engineering for Process Plant.



Mr. KB Krishnan

EX CEO of L&T-GULF, 43 years of Experience in EIL and L&T in Project Management of FEED and Detailed Engineering.



Mr. Ravi Bhatnagar

Over 39 years of Experience in EIL and L&T in Civil & Structural Engineering in FEED & Detailed Engineering for Process Plants and Pipelines.



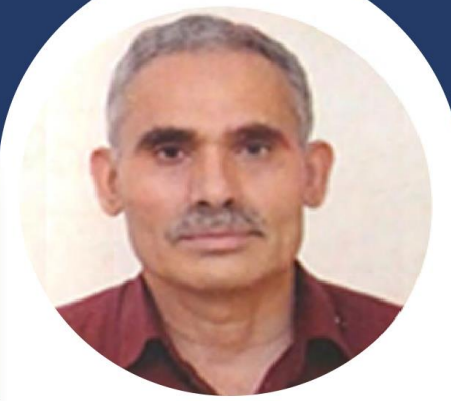
Mr. Sanjay Gupta

Over 37 years of experience in EIL in Electrical Engineering & Cathodic Protection in FEED and Detailed Engineering for Process Plants & Pipeline.



Mr. R. N. Rai

Over 38 years experience in L&T, Saipem, VCS in Mechanical Engineering - Static, Rotary & Packages, HVAC in FEED & Detailed Engineering for Process Plants & Pipelines.



Mr. Ram Bhagwan Sharma

Over 35 years of experience in EIL in Civil & Structural Engineering in FEED & Detailed Engineering for Process Plants & Pipelines.



Man Power : Scalability and Availability

- Our permanent Bench Strength 90
- Adjustable Strength (Scale up) 60% to 70%
- Total Strength after scaling up 140 to 150
- Total Capacity of Work 18,000 Man hrs. per month
- Total Capacity after scaling up 25,000 Man hrs. per month
- Part time employees : 15+
- Deputation Employees To Other Companies (Over & above over permanent bench strength) : 45





PROCESS PLANT ENGINEERING

(PETROCHEMICAL & REFINERY)

OUR SERVICES – PROCESS PLANT ENGINEERING (PETROCHEMICAL & REFINERY)

Engineering Services

- FEED and Detailed Engineering
 - Piping including stress analyses
 - Process and HSE
 - Civil, Structural and Architectural
 - Electrical and CP
 - Instrumentation and Control, Telecommunication
 - Mechanical – Static , Rotary and Packages
- 2D, 3D modelling, Smart Plant
- As built, LFM Modelling
- Pre-bid Engineering
- Piping Construction Management Services (Piping Spool Gen)
- Commissioning Assistance
- Constructability Studies
- Operating & Control Philosophy

Technology Services

- Consultancy and Administration services for Hexagon PPM & VEVA Products
- Data Audit Services
- 2D/3D customization (Drawing Templates, Reports)
- Project Upgradation Services
- Training

Major Process Plant Projects Handled By PLECO Personnel

- FEED and Basic Engineering for Dehydration station for DNPL, Duliajan, Assam, India.
- Bhagyam Field Development project, India.
- Midyan Gas Processing facilities of Saudi Aramco
- Lekhwair Gas Project of PDO, Oman
- GC-30 of Kuwait Oil Company, Kuwait.
- Compressor stations for GAIL India Ltd.
- Detailed Engineering for Methanol Plant for Oval, India
- Miscellaneous Detailed Feasibility Studies / FEED for Assam Gas Company, India
- CDU & VDU, Technological structures & compressor house for Bongaigoan Refinery & Petrochemical for BRPL, India.
- Revamp projects for DMT, Linear, Alkyl Benzene & Paraxylene for IPCL, India.
- Paradip Refinery offsite & utilities, CDU/VDU, India.
- MSQ Upgradation project, Haldia Refinery, India.
- ENI Mexico FPSO Projects.
- KGD Basin Oil field Projects, India.
- Foroozon Oilfield, Offshore Processing Platform.
- Paraxylene Plant, Panipat Refinery.
- Alumina Refinery Expansion Project at Muri, India.
- Mangalore Refinery & Petrochemical expansion Project, Mangalore, India.
- LPG Plant at Vagodia, India.
- Offsite & utilities for Tabriz Petrochemical Plant, Iran.
- Maharashtra Gas Cracker Projects at Nagathone, India.
- Panipat Refinery Expansion Project, India
- Adani LPG Terminal at Mundra, India
- Diesel Hydrotreater unit, Naphtha Hydrotreater unit, Isomerisation unit in Refinery Complex in Pertamina, Indonesia.

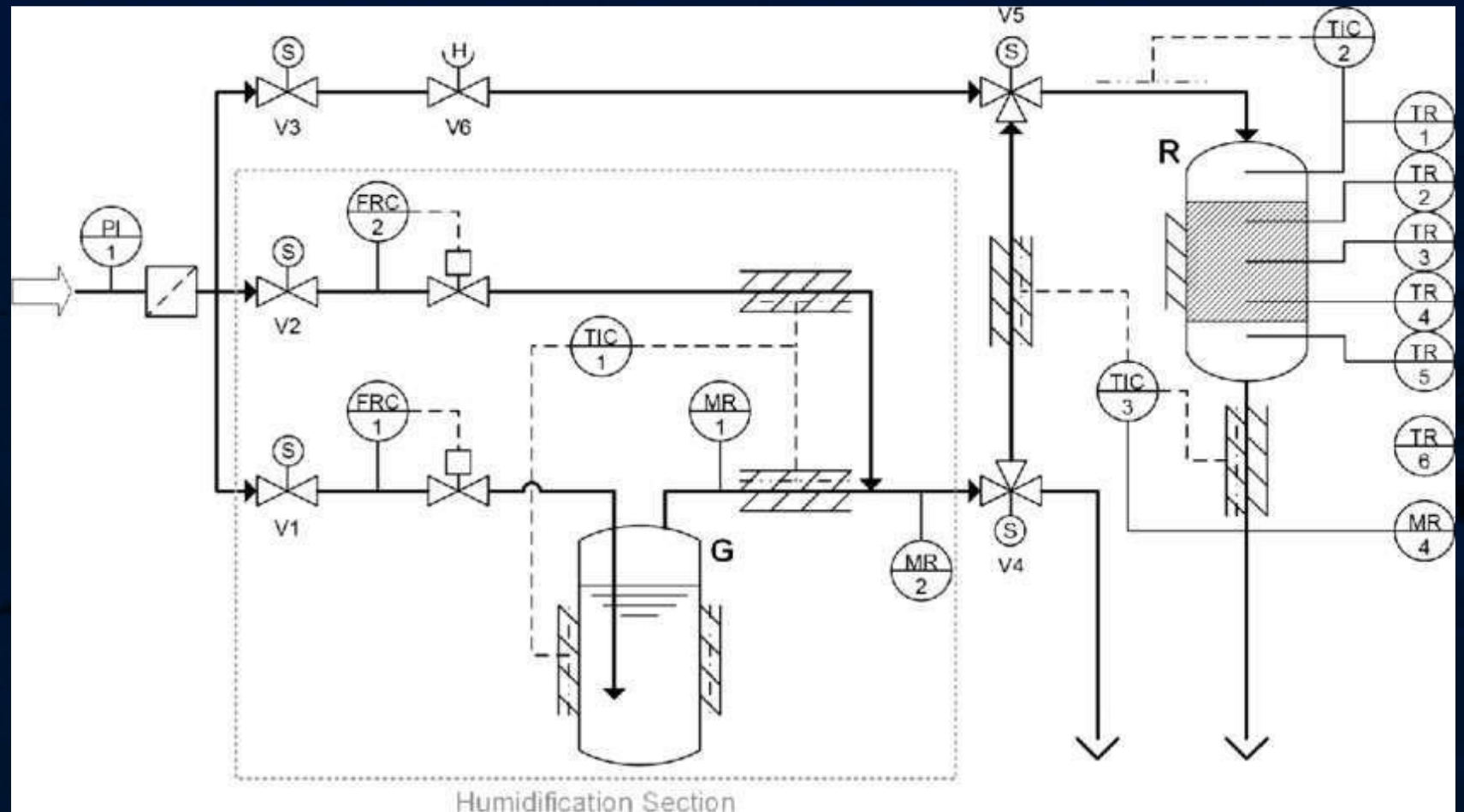
Major Process Plant Projects Handled By PLECO Personnel

- Hail & Ghasha Sour Offshore Gas & Well fluid processing & Onshore Terminal Project, UAE for ADNOC.
- Shah Gas Development for ADNOC, UAE.
- Shaybah Gas Processing / NGL Plant, Saudi Aramco.
- CBDC, Takreer Refinery Project, ADNOC, UAE.
- TGASt Onshore Gas Processing Plant, Malaysia.
- SONATRAC / TOTAL Algeria Refinery Revamp, Algeria.
- DHT / Hydrogen Unit for HPCL, Vizag, India.
- Sulphur Recovery Unit (SRU-IV) for IOCL Mathura, India.
- ISOM, NSU / NHT & PENEX unit for IOCL Vadodara, India.
- Hydrogen Generation unit for BHP, Biliton, Australia.
- DHT / Hydrogen Generation Unit for ESSAR Refinery, Vadodara, India.

Process Designing Study

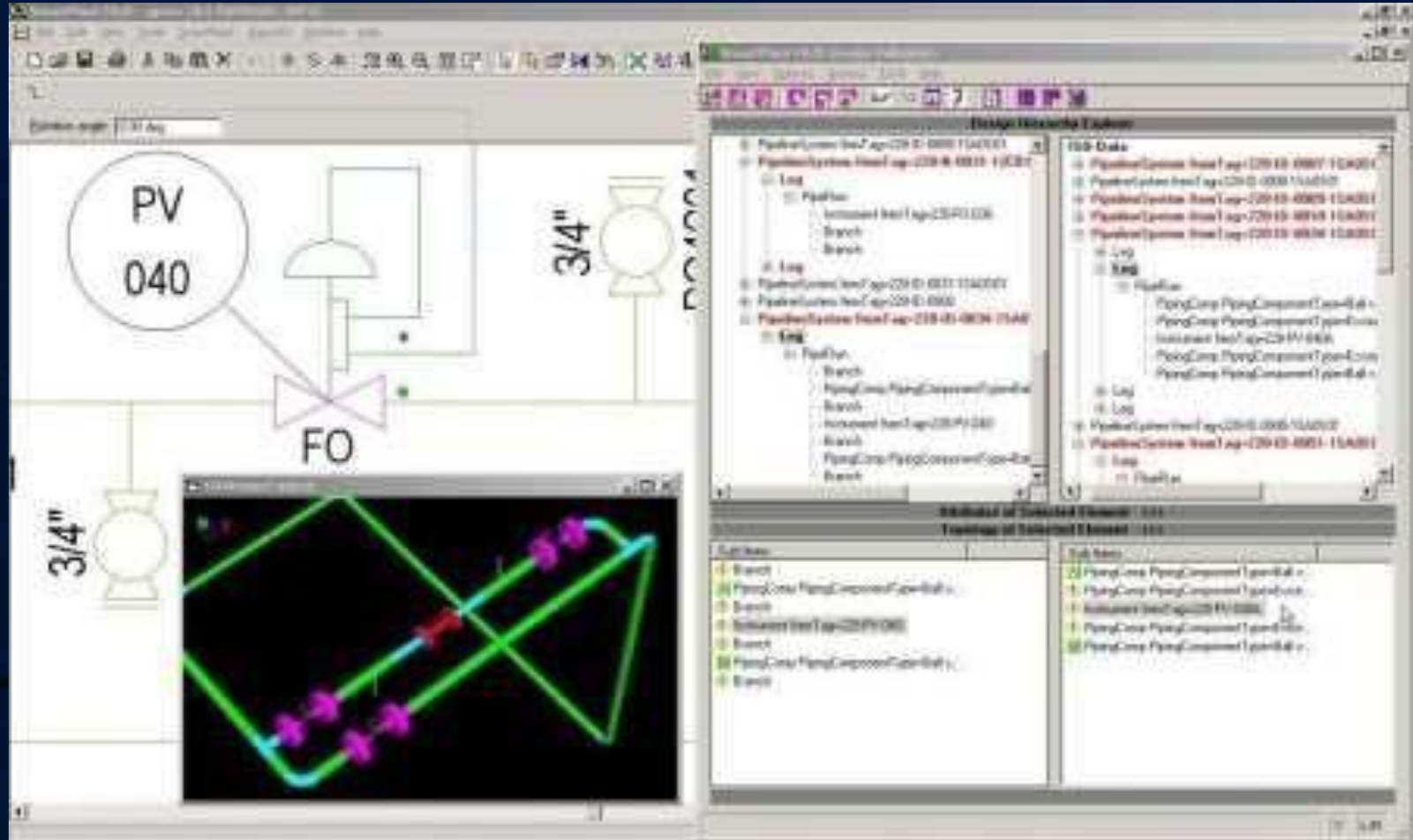
Software

- Smart P & I D
- AutoCAD
- MicroStation
- Pipeline Studio
- Pipe Sim
- Aspen Hysis



Process Designing & Study

- Database Creation Administration
- Symbol Creation
- Smart Process and Instrument Diagram Creation
- Database Back-Up



Piping Engineering Layout



Software

- Smart 3D/PDS
- E3D/PDMS
- CADWorx
- CAESAR II
- AutoCAD 2D/3D
- MicroStation
- Smart Sketch
- ISOGEN Piping Isometrics extraction
- Smart Review
- Autodesk Navisworks
- Spool Management



Instrumentation Design Study

Software

- Smart Instrumentation (SPI)
- Microsoft Excel



Instrumentation Design & Study: Deliverables

Special Instrumentation Engineering Skills

- Custody Transfer Flow Metering Systems
- Automatic Tank Gauging System for Custody Transfer Inventory Application
- Motor Operated Valves with Intelligent Actuators
- Control system and Electrical interface for Intelligent Motor/Power Control Centre
- Instrumentation Sizing Calculations
- SMART, Fieldbus, Profibus, ASIBUS, Wireless Instruments Control system engineering
- Special instrument items like: Nucleonic level instruments, Skin temp. Measurements Gas analysers etc

Electrical Design & Study: Deliverables

Electrical Engineering Skills

- Preparing Design Basis
- Enquiry specifications for Electrical Equipment : MCC, VFDs, PDB, LDB, Light fittings, PB stations etc
- Vendor offer evaluation, Technical bid analysis, preparation of order specifications
- Vendor drawing review and approval Factory acceptance test
- Single line diagrams, Power, earthing, lighting, Lightning protection system/ layouts
- Preparation of cable schedule
- Preparation of Bill of materials for cable trays, earthing, lighting, lightning



EXPERIENCE OF 3D MODELLING FOR PROCESS PLANT

NEW PROJECTS

WATER BLOCK PACKAGE (RO-DM,RWTP,CPU, STP & ZLD), GAIL USAR, PARAMOUNT:

- Date of Award: 01 05 2023
- Project Duration: 12 Months
- 3D Software: SP3D
- Project Status: Completed For 30% Model Review.

SCOPE OF WORK:

- 3D modeling for Piping, Equipment, Structure, Civil, Foundation, Electrical, Instrumentation etc.
- Project setup, Catalog & Specifications preparation in S3D for all Disciplines 19 Nos. Piping Specs ,
- Electrical Specs, Civil Specs
- Piping Isometrics, Piping GADs, Piping MTO, Cable & Instrument Tray Layout
- modeling of all discipline items as per “EIL Job specification for 3D modeling”
- No of P&ID’s 73 Nos.
- No of Lines: 2500 Nos



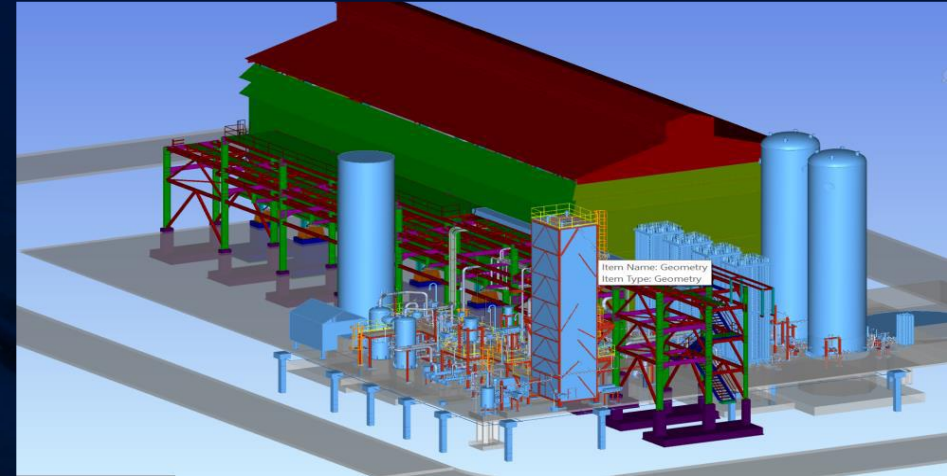
ON GOING PROJECTS

CRYOGEN NITROGEN PLANT, GAIL USAR, LINDE INDIA LIMITED:

- Date of Award: 14-01-2023
- Project Duration: 06 Months
- 3D Software: SP3D
- Project Status: Completed For 90% Model Review.

SCOPE OF WORK:

- 3D Modeling for Piping, Equipment, Structure, Civil, Foundation, Electrical, Instrumentation etc.
- Piping Isometrics, Piping GADs, Piping MTO, Cable & Instrument Tray Layout.
- No. of P & ID's : 15 Nos.
- No. of Lines: 300 Nos.



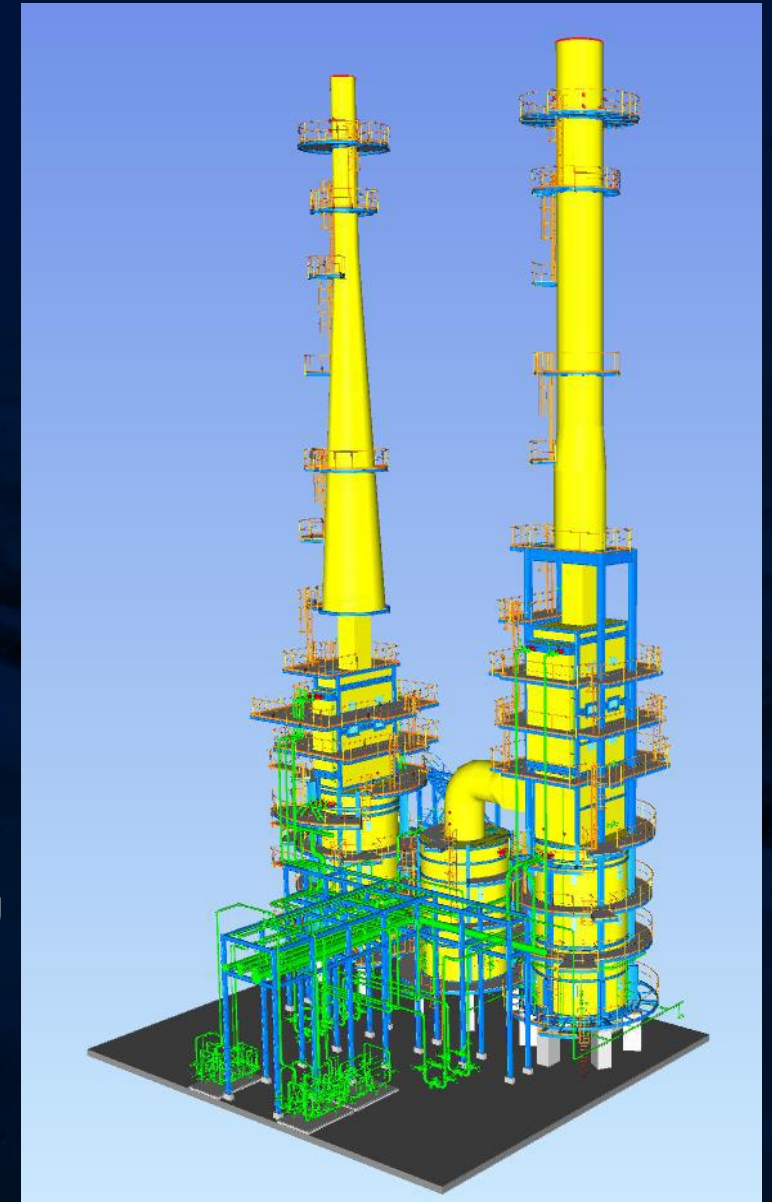
ON GOING PROJECTS

Naptha Splitter Reboiler Heater, IOCL Panipat, Esteem Projects :

- Date of Award:01-01-2023
- Project Duration:06 Months
- 3D Software:E3D
- Project Status: Completed For 60% Model Review.

SCOPE OF WORK:

- Piping Detail Engineering
- 3D Modeling for Piping, Heater, Fuel Skids, Electrical , Instrumentation etc.
- Piping Isometrics, Piping GADs, Piping MTO, Cable & Instrument Tray Layout, Piping Stress analysis.
- No. of P & ID's :06Nos.
- No.ofFurnace:03Nos.
- No. of Fuel Skid: 03 Nos.



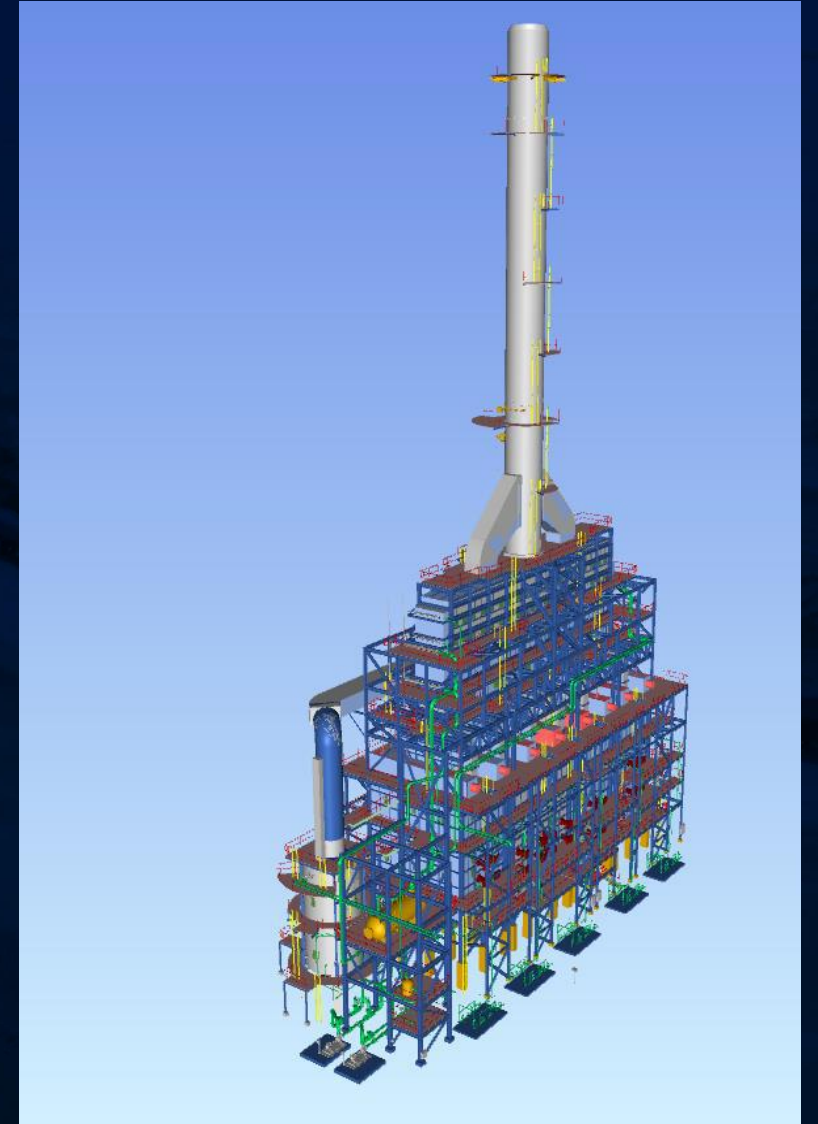
ON GOING PROJECTS

CCR & Debutanizer Heater for Panipat Refinery Expansion Project, IOCL Panipat -Technip Energies

- Date of Award: 06-09-2022
- Project Duration: 06 Months
- 3D Software: E3D
- Project Status: 60% Model Review Completed.

SCOPE OF WORK:

- Detail Engineering for Piping.
- 3D Modeling for Piping, Equipment, Fuel Skid.
- Piping Isometrics, Piping GADs, Piping MTO, Stress Reports.
- No. of P & ID's: 08Nos.
- No. of Furnaces: 05Nos.

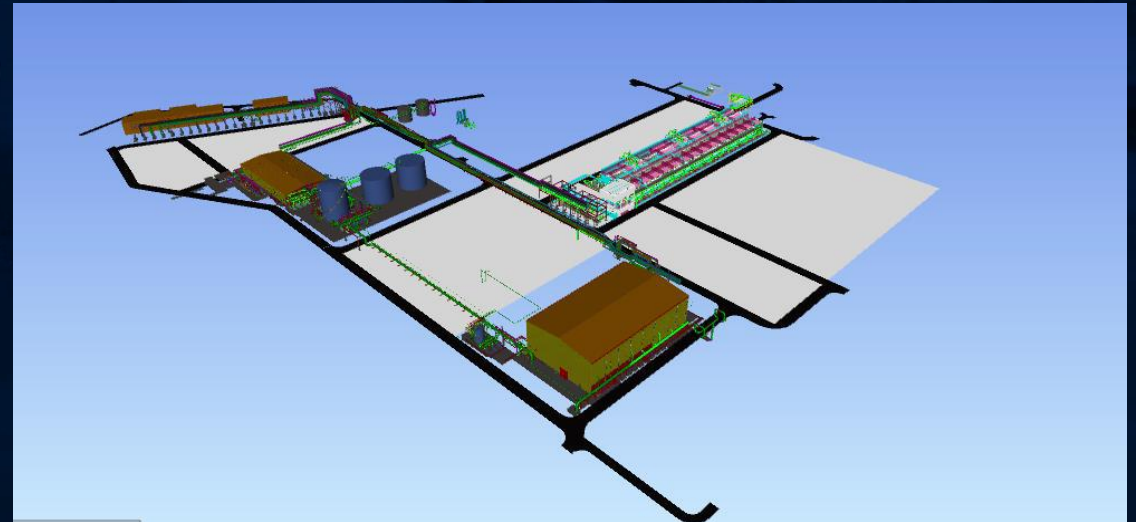
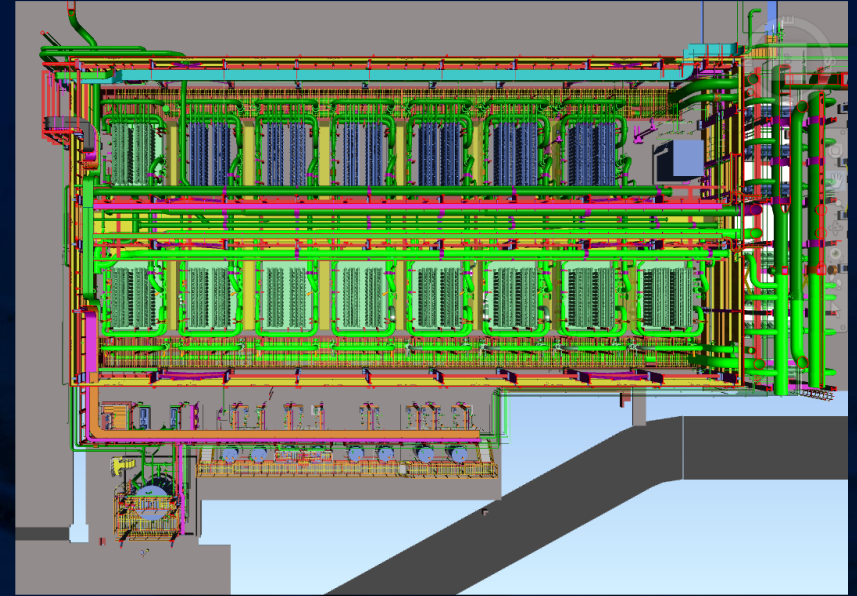


2 X 1100 M3/Hr SWRO AT JMD For RIL VA Tech Wabag

- Date of Award: 06-09-2022
- Project Duration: 08 Months
- 3D Software: SP3D 2019
- Project Status: 90% Model Review Completed

SCOPE OF WORK:

- 3D Database and Project Setup.
- Project setup, Catalog & Specifications preparation in S3D-04 Nos. Piping Specs
- 3D Modeling for Piping, Equipment, Civil, Structure, Electrical & Instrumentation
- Piping Isometrics, Piping GADs, Piping MTO
- No. of P & ID's :78Nos.
- No. of Lines: 945Nos.

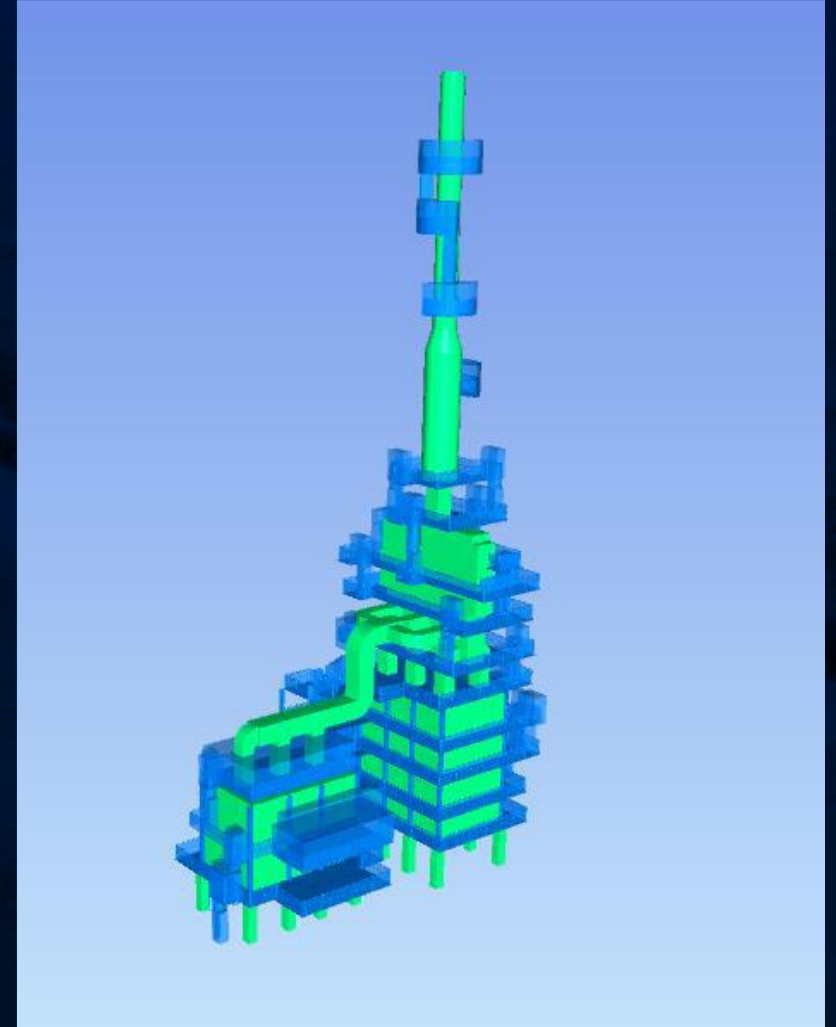


RHCU FEED HEATER PACKAGE, ORLEN, FOR JNK INDIA PVT. LTD.

- Date of Award:10-08-2022
- Project Duration: 06 Months
- 3D Software: PDMS
- Project Status: 90% Model Review Completed

SCOPE OF WORK:

- Detail Engineering for Piping.
- 3D Database Setup & 3D Modeling for all Discipline.
- Piping Isometrics, Piping GADs, Piping MTO.
- No. of P & ID's: 05Nos.
- No. of Furnaces: 05Nos.

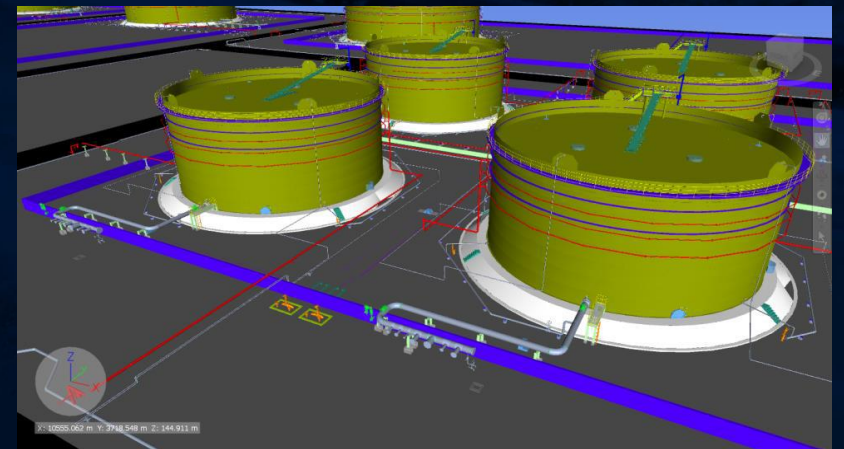
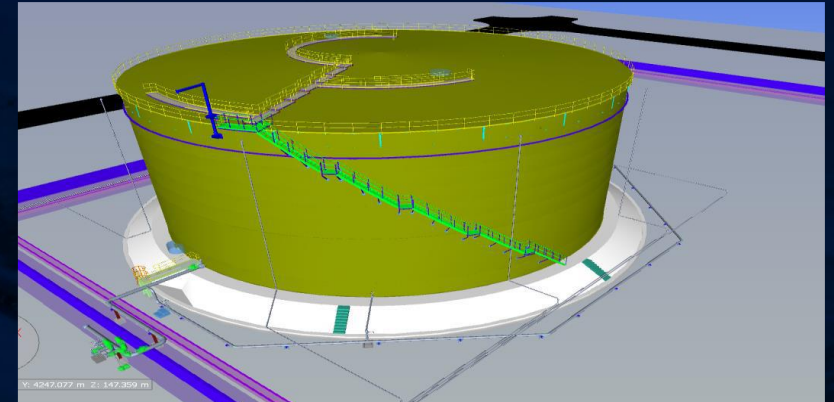


Intermediate & Product Storage Tank PKG 6B, HRRL For Bridge & Roof Co. India Limited

- Date of Award: 30-05-2022
- Project Duration: 08 Months
- Project Status: 90% Model Review Completed
- 3D Software: SmartPlant3D

SCOPE OF WORK:

- Detail Engineering for Process, Piping, Electrical & Instrumentation Discipline.
- 3D Data base Setup & 3D Modeling for all Discipline.
- Piping Stress Analysis, Piping Isometrics, Piping GADs, Piping MTO, IBR Package.
- Process Flow Diagrams, Detail & Design of Heating Coils, Line Sizing Calculations & Adequacy check.
- SLD Preparations, Cable Schedule, Earthing Layouts & Calculations, Earthing & Lighting Protection System Layout.
- Instrument I/O Index, Instrument Cable Schedule, Instrument JB Schedule, Inst. Cable Tray Layout/Support.
- No.ofP&ID's:45Nos.
- No.ofLines:800+.
- No.ofTanks:28 Nos.

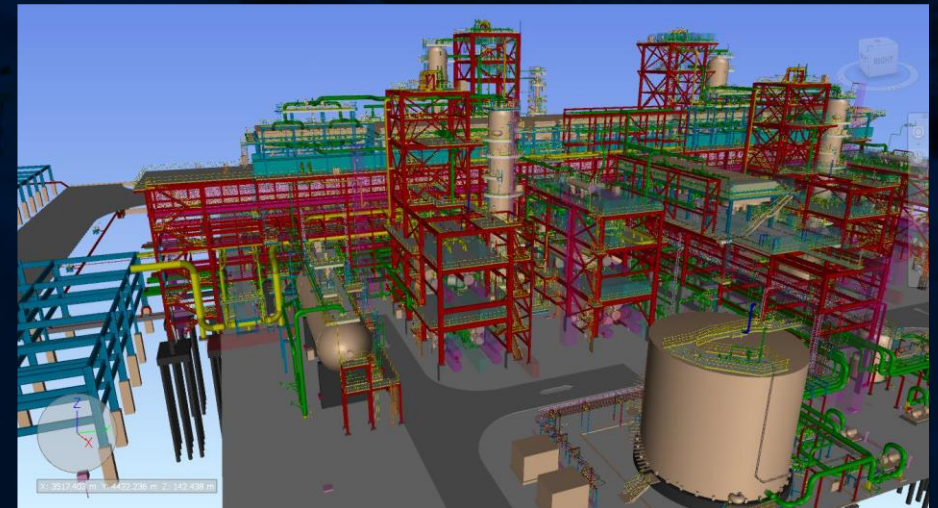


ARU & SWS Units-Sulphur Block For CPCL-McDermott

- Date of Award: 27-12-2021
- Project Duration: 1 Year
- Project Status: Completed For 90% Model Review.
- 3D Software: AVEVAE 3D

SCOPE OF WORK:

- Piping Engineering & 3D Modeling for all Disciplines (Piping/Civil/Structure/UG/Electrical/Instrumentation etc)
- Piping Stress Analysis, Piping Isometrics, Piping GADs.
- Piping MTO.
- No. of P& ID's: 80Nos.
- No. of Lines: 2500
- Civil/Structural /UG Detail & Design Engineering.
- Foundation Design



COMPLETED PROJECTS

RWTP, RO-DM, CPU- HRRL-L&T

Detailed Piping Engineering and 3D modeling & Smart PIDs Drawing creation Of RWTP, RO-DM, CPU for HRRL.

Scope of Work

- Data base creation in Smart 3D (S3D) and Smart PID
- Smart PID Project Setup, Symbol Creation, Item Tag creation
- Smart PIDs Drawing creation as per mark up (200Nos.)
- Project setup, Catalog & Specifications preparation in S 3D for all Disciplines–19Nos.Piping Specs, Electrical Specs, Civil Specs
- Piping Detailed Engineering Study–RWTP, RO-DM, CPU
- Modeling of all discipline items as per “EIL Job specification for 3D modeling”
- Participation in model review meetings with client
- Extraction of GADs, Isometrics as per the client standards
- S3D modeling–Piping(4500Lines), Structural, E&I,UG, Fire Water network etc.



Effluent Water Treatment Plant Project HRRL

Detailed Piping Engineering and 3D Modeling of Effluent Water Treatment Plant (ETP) and Hazardous waste handling facilities

Scope of Work

- Data base creation in Intergraph Smart 3D (S3D) 2016 for developing the model
- Project setup, Catalog & Specifications preparation in S3D for all Disciplines–17Nos. Piping Specs, Electrical Specs
- Piping Detailed Engineering Study–90Nos. P & IDs
- Pipe Routing in 3D model–2500+ Nos. Lines
- Modeling of all discipline items as per “EIL Job specification for 3D modeling”
- Participation in model review meetings with client
- Extraction of GADs, Isometrics as per the client standards–100+Nos.GADs.
- TEKLA interface with S3D



Compressor Air and Nitrogen Package–HRRL-Linde

- Detailed Piping Engineering and 3D modeling of Compressor Air and Nitrogen Package

Scope of Work

- Data base creation in Intergraph Smart 3D (S3D) 2016 for developing the model
- Project setup, Catalog & Specifications preparation in S3D for all Disciplines–16Nos. Piping Specs, Electrical Specs, Civil Specs
- Pipe Support S3D Data base creation and Customisation
- Piping Detailed Engineering Study–Fuel Skid Piping
- 3D Modeling of all discipline items as per “EIL Job specification for 3D modeling”
- Participation in model review meetings with client
- Extraction of GADs, Isometrics as per the client standards
- TEKLA interface with S3D

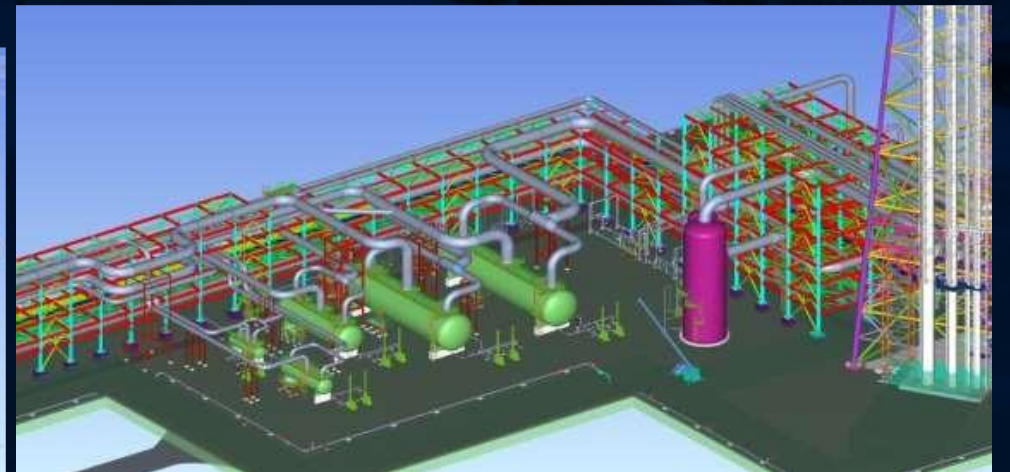
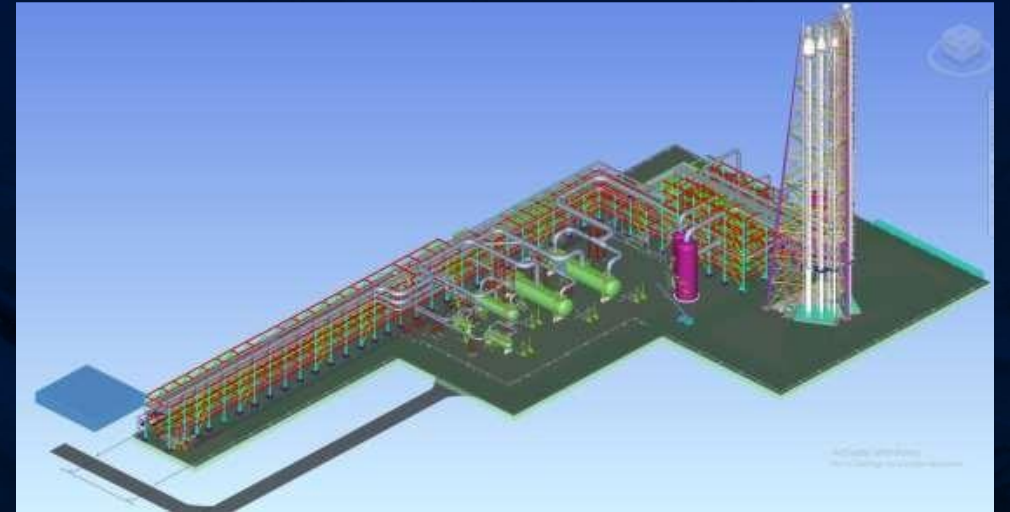


Demountable Flare System PKG4, HRRL for AFG Combustions

- Date of Award: 30-05-2022
- Project Duration: 6 Months
- Project Status: 90% Model Review Completed
- 3D Software: Smart Plant 3D

SCOPE OF WORK:

- 3D Data base Creation & Setup
- 3D modeling of Equipment.
- 3D modeling of all discipline (Piping, Civil, Structure, E & I, Firewater)

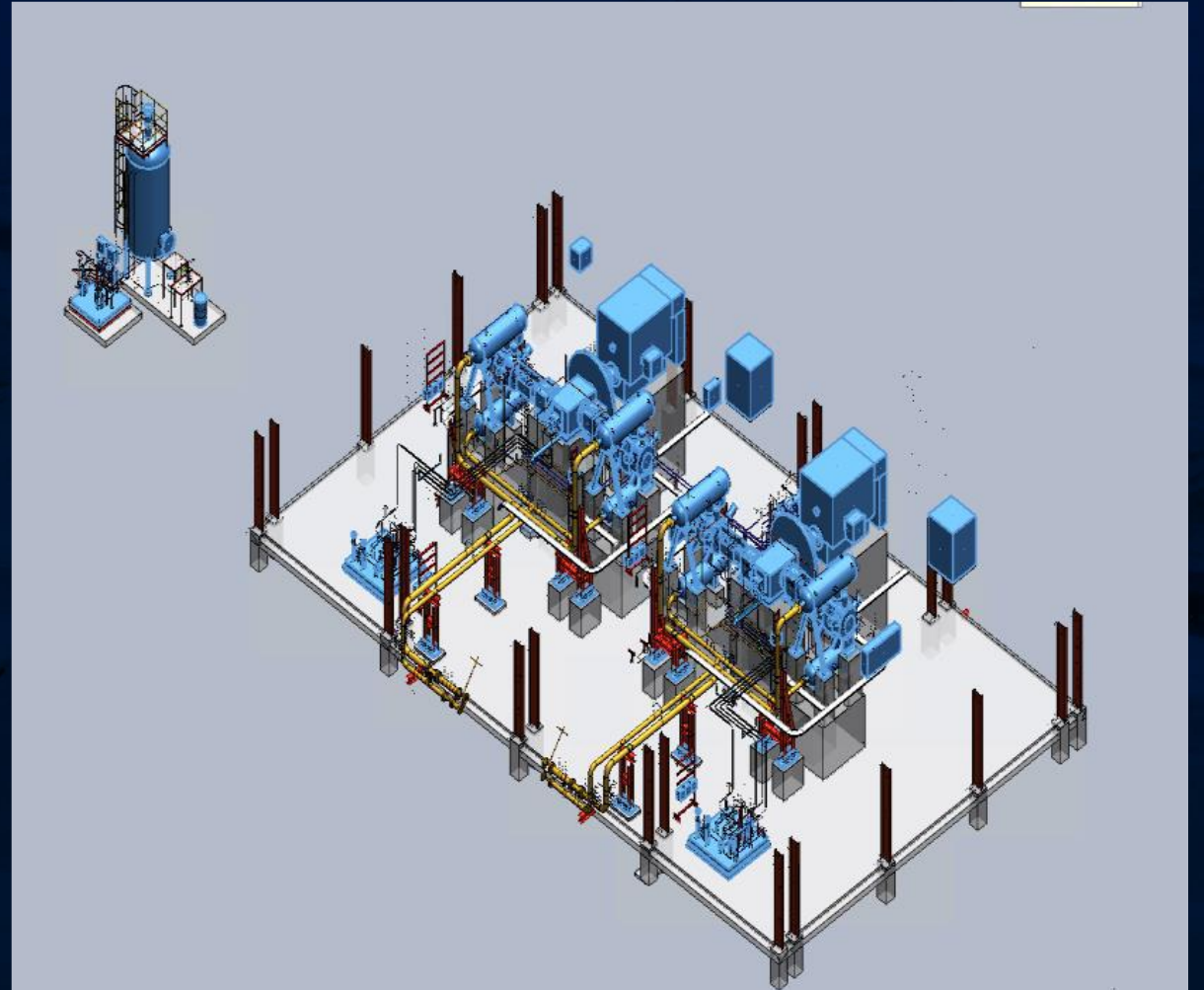


MS Block PKG-02 For HRRL, Rajasthan, Technip Energies

- Date of Award: 22-08-2022
- Project Duration: 03Months
- 3D Software: SP3D 2016

SCOPE OF WORK:

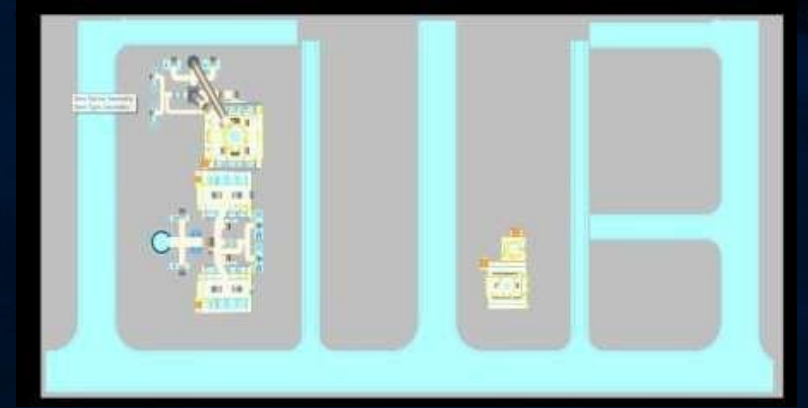
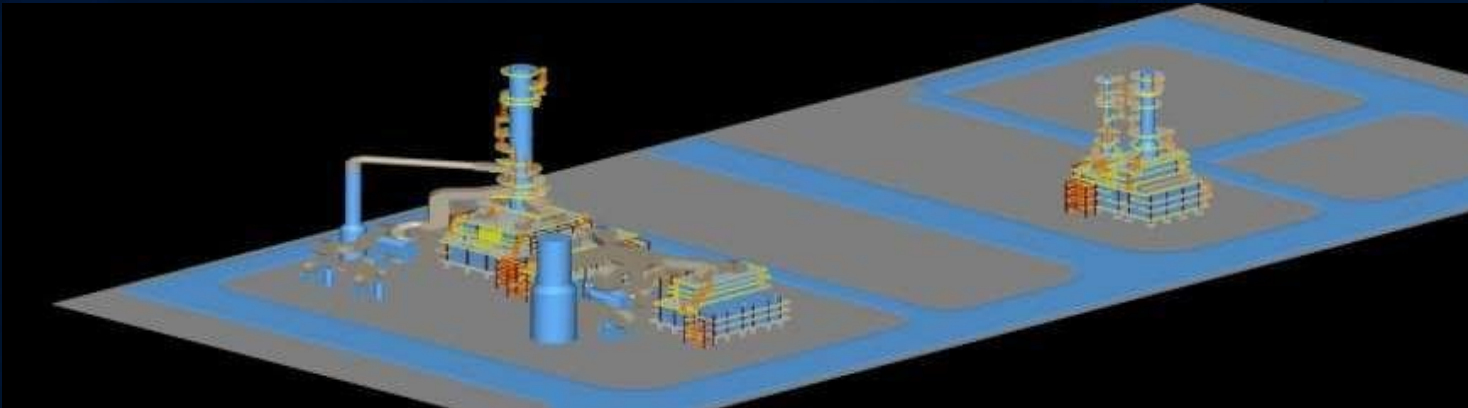
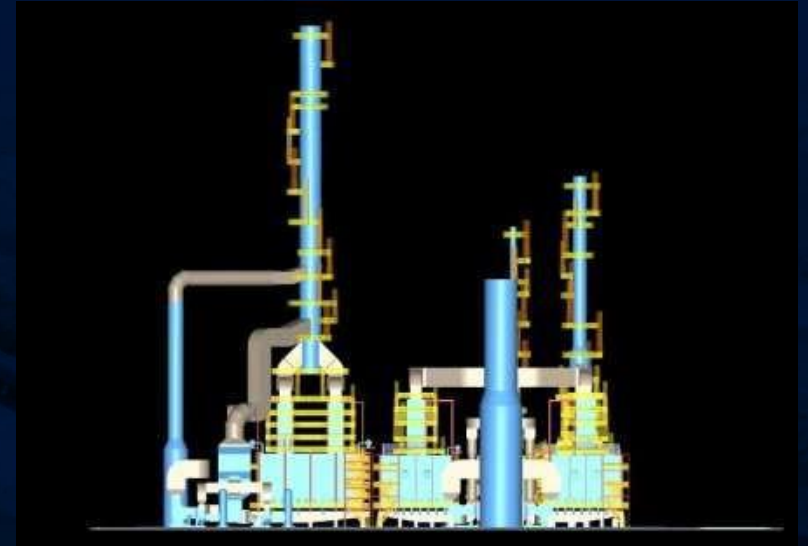
- 3D Modeling for 03 Nos. of Compressor Unit 105,106 & 108.
- 3D Modeling for Piping, Equipment, Civil, Structure, Electrical & Instrumentation.
- 3D modeling of Building



PX-PTA HEATER PACKAGE

Scope of Work:

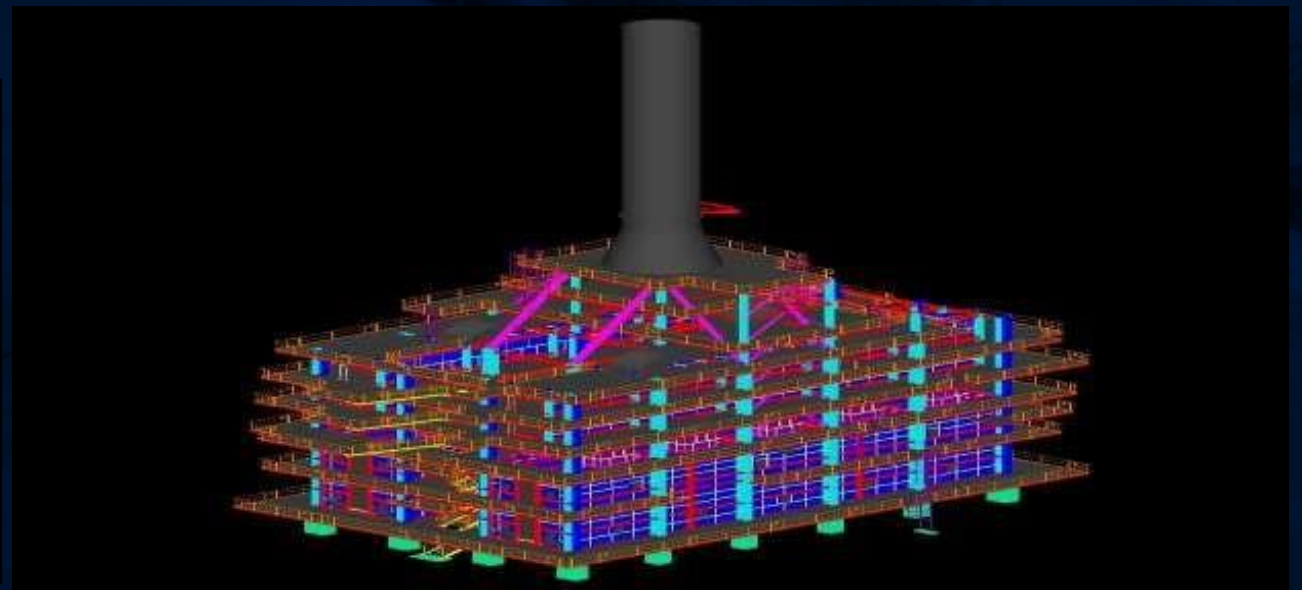
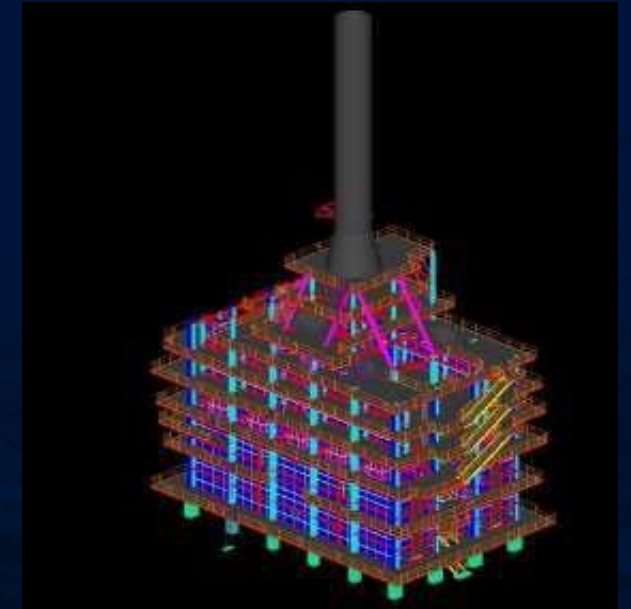
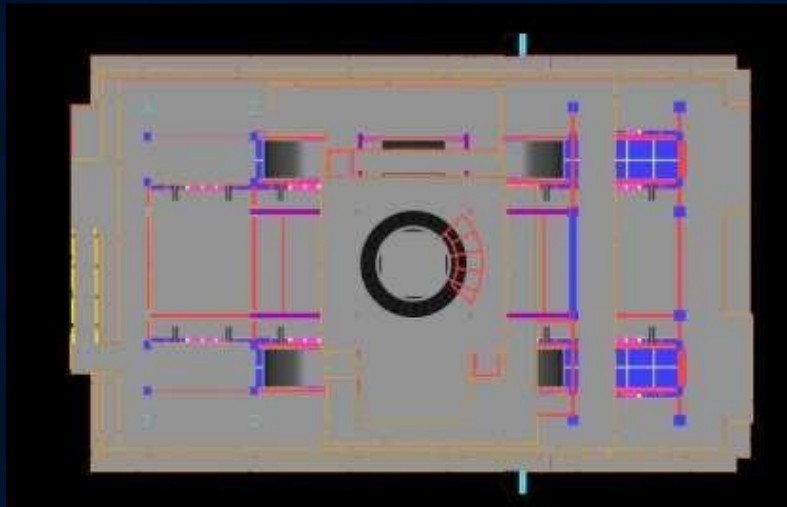
- 3D modeling of Heaters (5Nos.).
- Duct modeling.
- 3D modeling All Platforms & Ladder Structure.
- 3D modeling All Instruments and Electrical Equipment.
- Fuel Skid 3D modeling.
- Fuel Skid GAD Extraction.
- Fuel Skid Piping MTO.
- Burner Piping, GAD Extraction and Piping MTO.
- 3D modeling of Over all Plot Plan.



IOCL-COKER-BREVAMP PROJECT

Scope of Work:

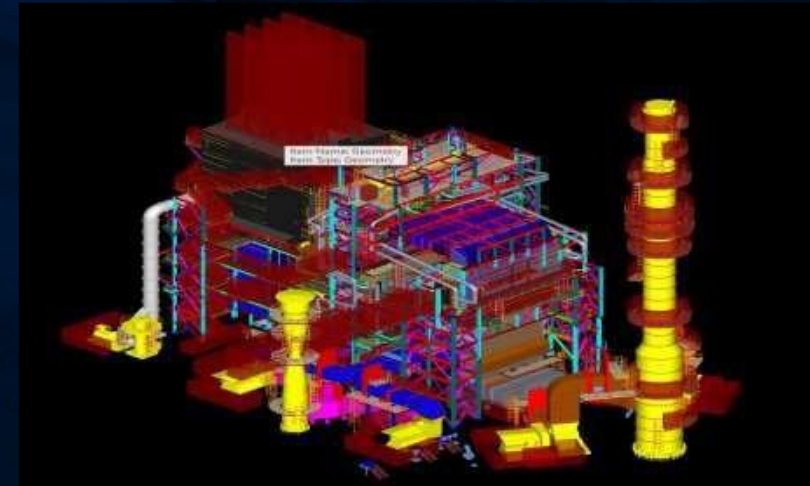
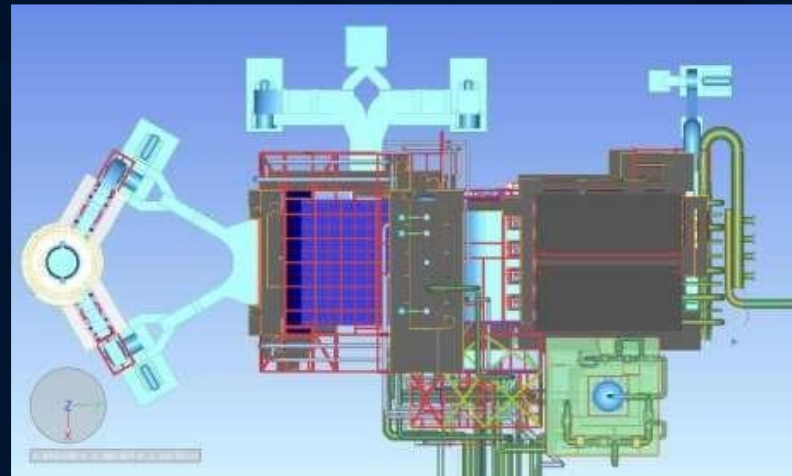
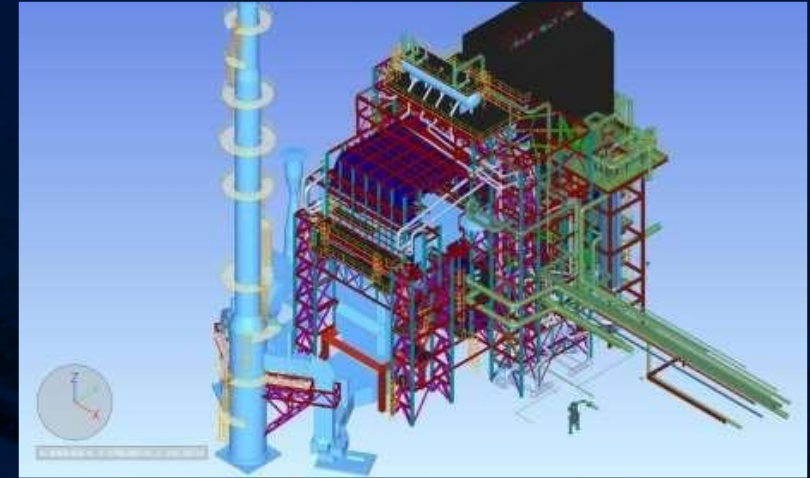
- 3D Modeling of Heaters.
- 3D Modeling Duct.
- 3D Modeling of All Platforms, Ladders, Staircase.
- 3D Modeling Instruments Electrical.
- Pressure Part Modeling Crossover.
- Pressure Part Support Modeling.



HGU Reformer for HRR L , JNK India

Scope of Work

- Database creation of S3D 2016 in consultation with Toyousing MSSQL Database
- Project setup and Catalog, specifications preparation in S3D for all disciplines
- Modeling of all discipline items as per “PMC Job specification for 3D modeling”
- Present in all model review meetings with client
- Extraction of GADs, Isometrics as per the client standards.
- TEKLA interface with S3D

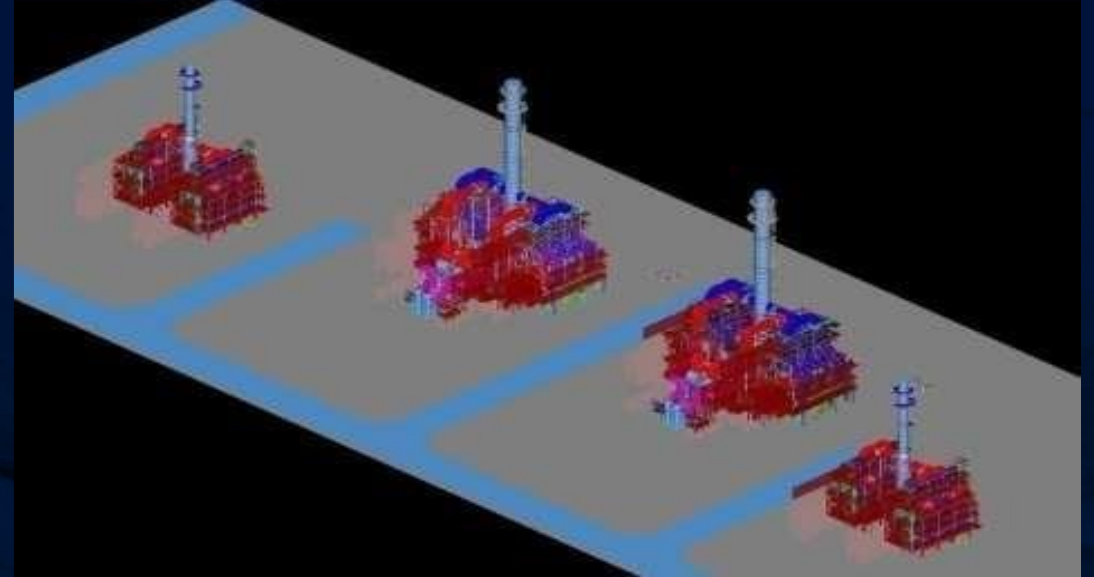


Dos Bocas Refinery Heater Package Project

- Detailed Piping Engineering and 3D Modeling of CDU Heaters(4Nos.), ATM Heaters(4Nos.), Fuel Skid Piping for DB Refinery-Heater Package for PEMEX, PTI Development Infrastructure.

Scope of Work

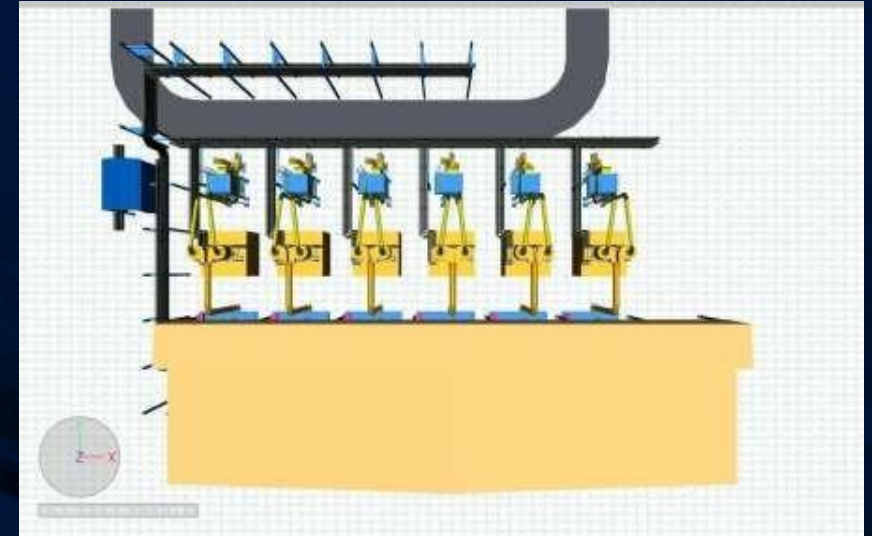
- Data base creation in Intergraph Smart 3D(S3D) 2016 for developing the model
- Project setup, Catalog & Specifications preparation in S 3D for all Disciplines–3Nos. Piping Specs, Electrical Specs, Civil Specs
- Piping Detailed Engineering Study–Fuel Skid Piping
- modeling of all discipline items as per “EIL Job specification for 3D modeling”
- Participation in model review meetings with client
- Extraction of GADs, Isometrics as per the client standards
- TEKLA interface with S3D



Ethylene Biomass Mill 3D modeling Project

Scope of Work

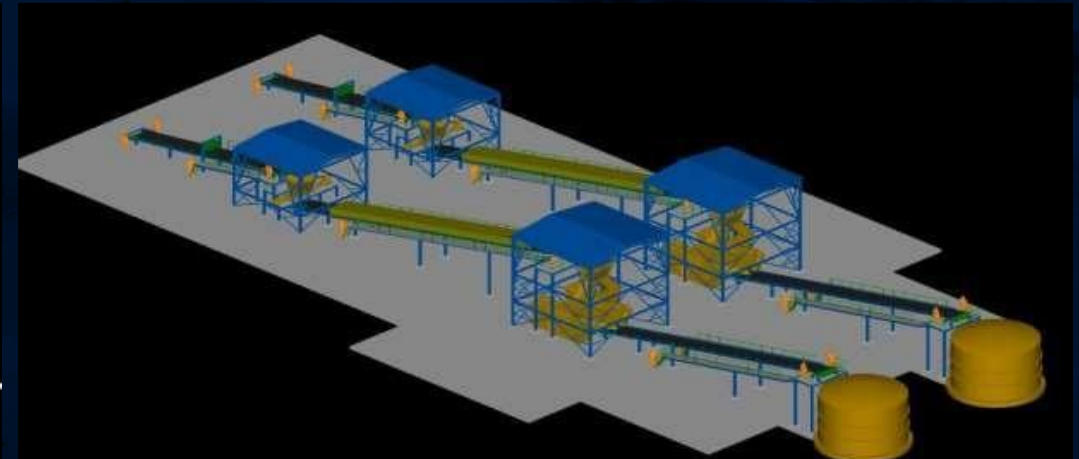
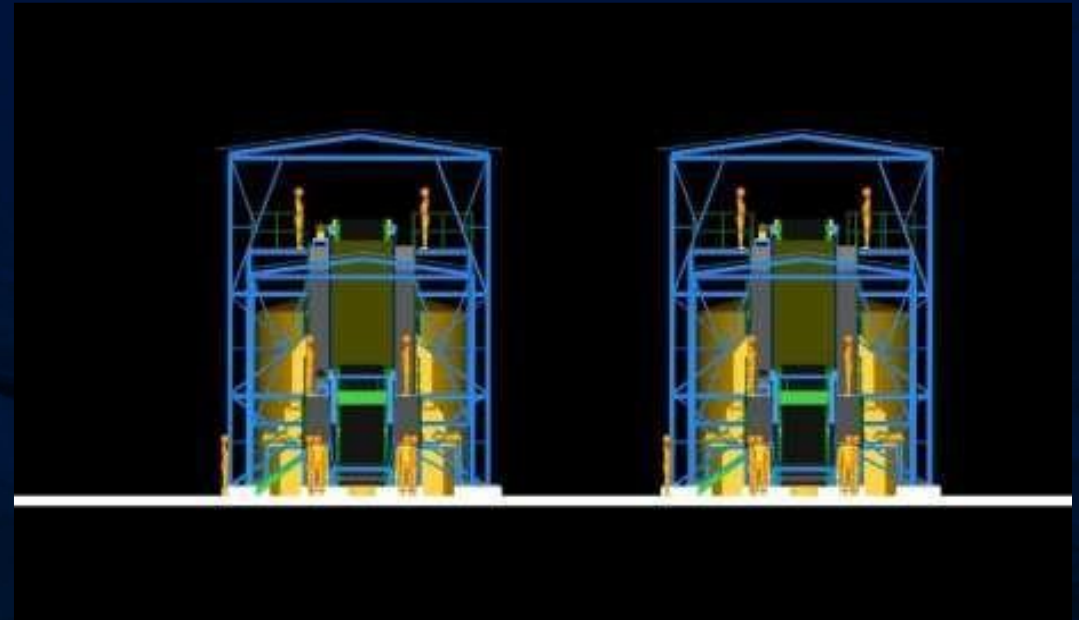
- Database creation of PDMS 12.1 in consultation with Chemical Systems Technologies & PRAJ Industries LTD
- Project setup and Catalog, specifications preparation in PDMS for all required disciplines
- Modeling of all discipline items as per Drawings
- Present in all model review meetings with client
- Extraction of GAD as per the client standards.



BIO GAS PLANT IOCL GORKHPUR

Scope of Work:

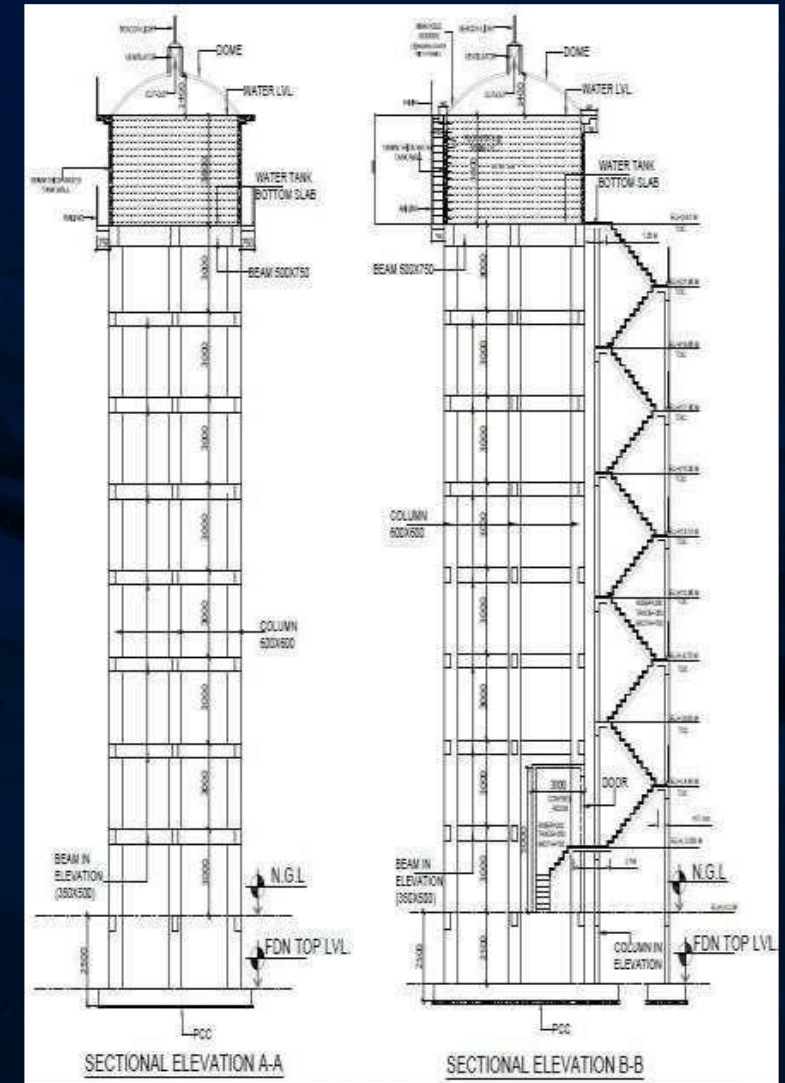
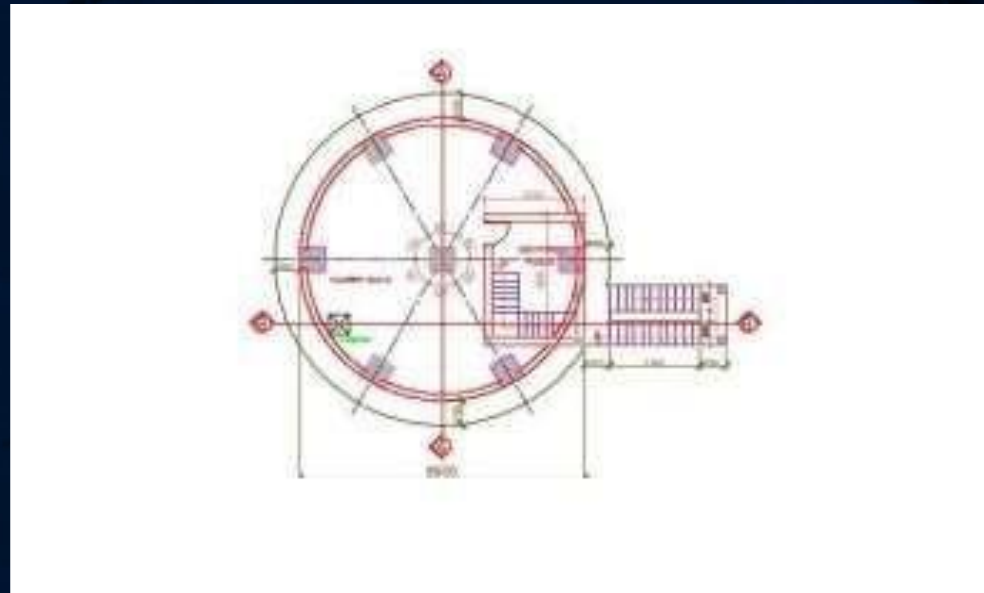
- 3D Modeling of Conveyor.
- 3D Modeling of All Platforms, Ladders, Staircase & Structure.
- 3D Modeling of All Equipment's Like Scrubber, Magnetic Separator, Y type Chute.



Completed Projects Civil/Structural Engineering

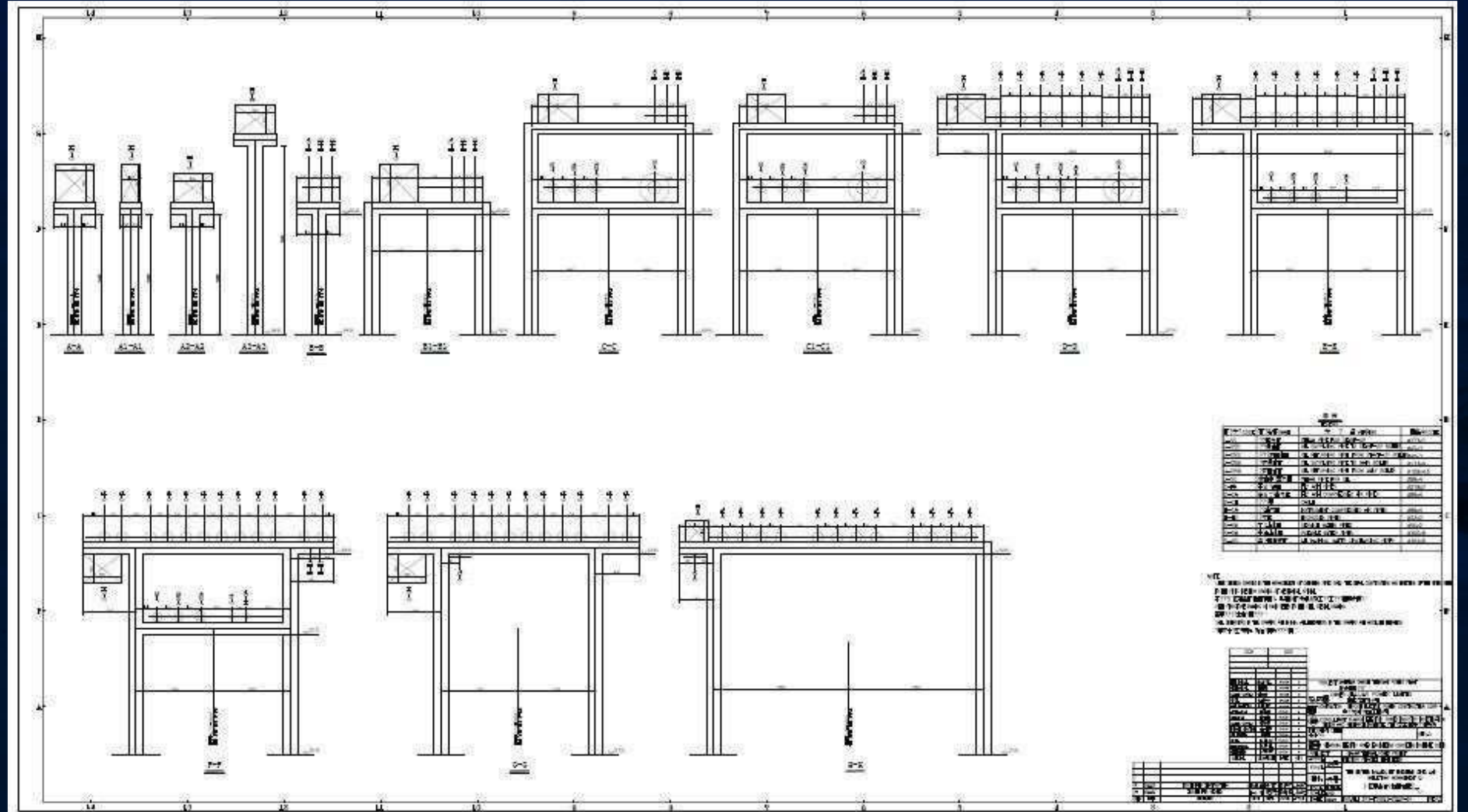
Detailed Engineering and Designing of Over-Head Tanks for Jhajjar Refinery, Haryana.

- Civil/Structural Engineering
- Generation of 2D Drawings
- 3D Modeling
- Structural MTO Extraction



Pipe-racking Strengthening for Jhajjar Refinery.

- Pipe rack strengthening as Per increasing Pipe Load
- Generation of 2D Drawings



Completed Projects Civil/Structural Engineering

- UG Piping Detailed Engineering
- 3D Modeling of UG Lines.
- Piping Support Modeling



Completed Projects Civil/Structural Engineering



Civil 3D Modeling for Effluent Water Treatment Plant, HRRL



Civil 3D Modeling for HGU Reformer, HRRL



Civil 3D Modeling for CDU & ATM Heaters, Dos Bocas Refinery.

Projects on Spooling & PCMS

Project Name: Mansourah Massarah Gold Project(MMGP) -OOK for L&T MMH

SCOPE OF WORK:

- Piping Construction Management Service
- Spool Management Service.

Work Flow:

- IDF fromClient:(**4775 IDF**)
- Prepared Isometric & Spool Drawings:
- Prepared MTO detail: Bill of Material (BOQ)
- Reports: Weld Joint(Field & Shop), Spool Information(Inch-Dia, Inch-Meter)

Project Name: NAYRAA Project for TOYO Engineering, Gujarat.

SCOPE OF WORK:

- Piping Construction Management Service
- Spool Management Service.

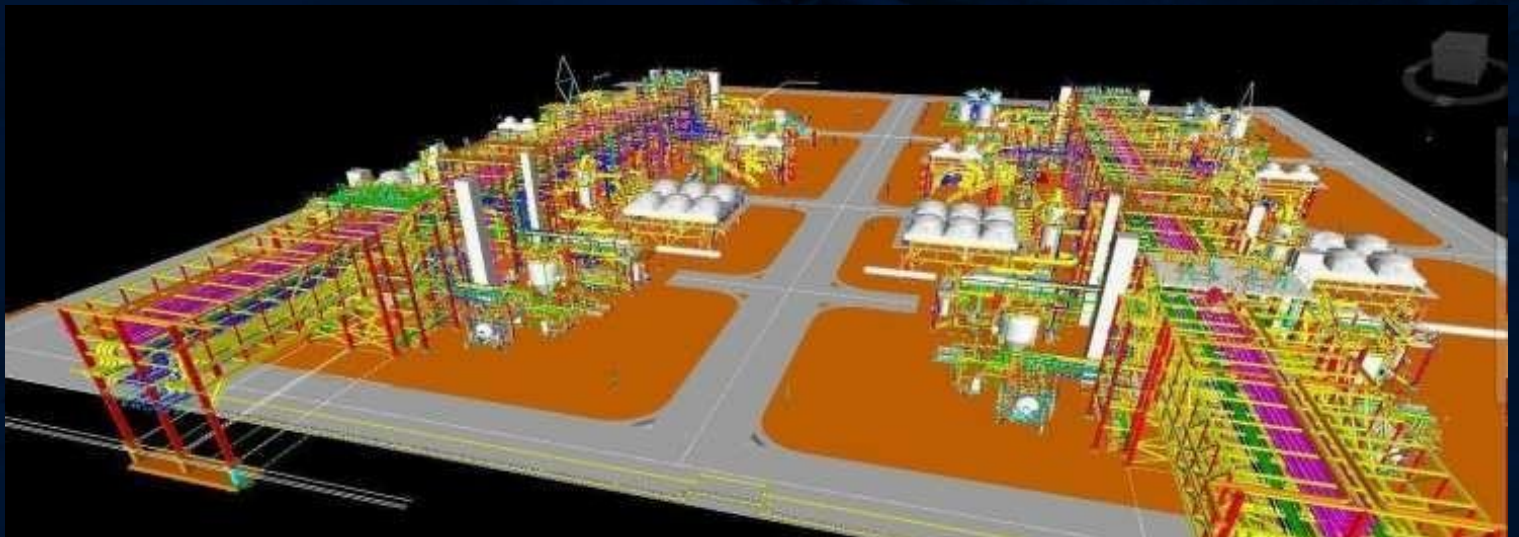
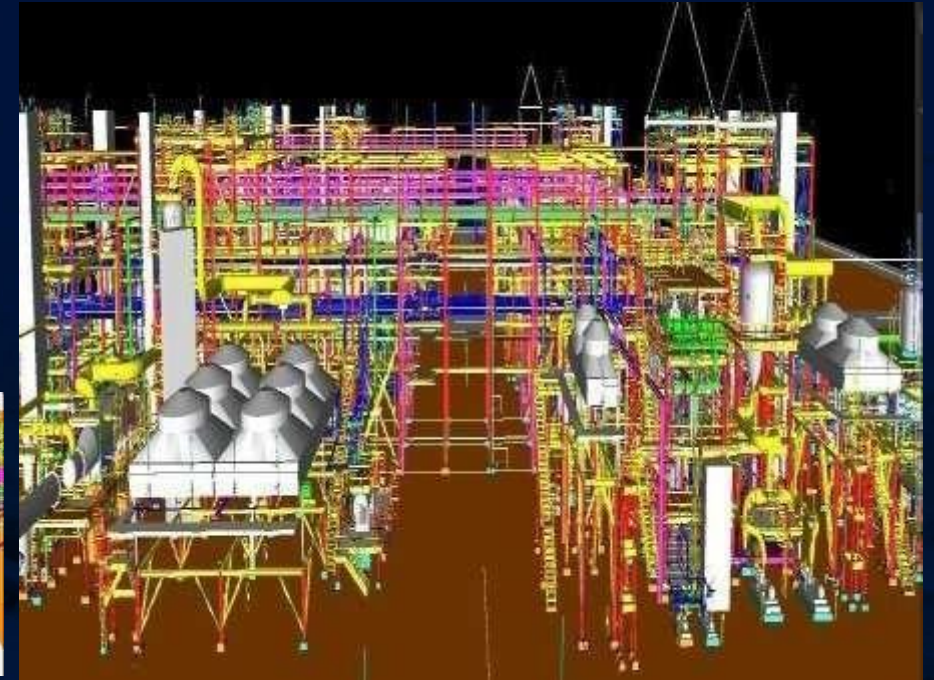
Work Flow:

- IDF fromClient:(1800 IDF)
- Preparation of Isometric & Spool Drawings:
- Preparation MTO details: Bill of Material (BOQ)
- Report: Weld Joint(Field & Shop), Spool Information(Inch-Dia, Inch-Meter)

ORGANISATION EXPERIENCE & PROJECTS BEFORE 2019

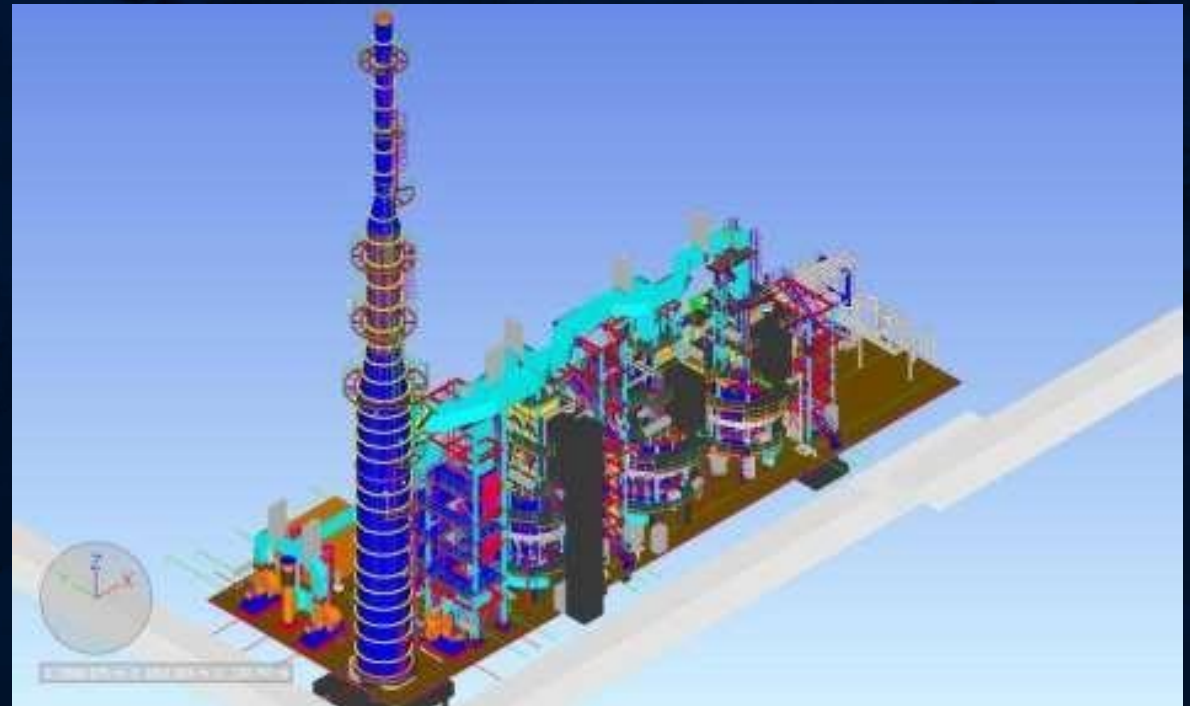
MEG- Wasit Gas Plant, Kavin Engg - Saudi Aramco

- Detailed Engineering for Feed and Product Surge project for Wasit Gas plant, Saudi Arabian oil Company (Saudi Aramco)
- Man-power Deputation and Staff Augmentation to Client Office
- Preparation of P&IDs in AutoCAD alongside Process Engineers
- Preparation of P&IDs in Intergraph Smart P&ID **(210 Nos. P&IDs)**
- Database Setup and Administration for PDS
- Catalog Creation (**90 Nos. Piping material Specifications**)
- Equipment modeling and Pipe 3D Modeling in PDS**(3000+ Nos. Lines- As Built)**
- Generation and Preparation of GA Drawings in PDS**(154 Nos. GADs- As Built)**
- Generation and Preparation of Piping Isometric drawing in PDS- As Built



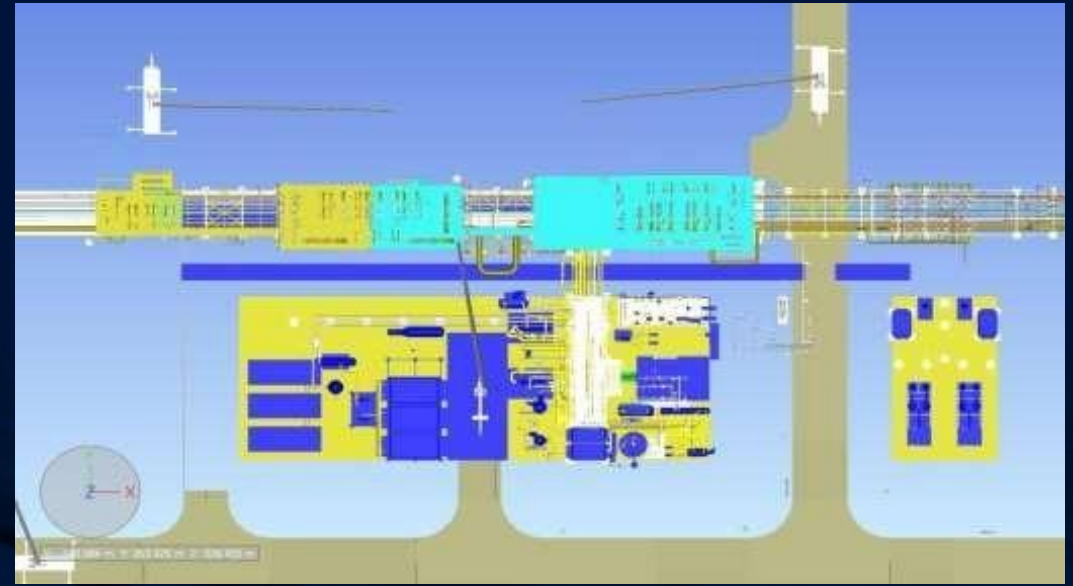
HDS Heater modeling

- Detailed Engineering and Piping of Heaters (4 Nos.) for the BS IV Project, Barauni Refinery (Indian Oil Corporation Ltd.)
- Man-power Deputation and Staff Augmentation to Client Office
- Equipment Modeling based on plant layout
- Heater connecting pipe routing from P&ID on PDS
- Equipment instrumentation modeling with cable trays on PDS
- Piping MTO Preparations
- Electrical Equipment modeling on PDS
- Generation of GA Drawings and Pipe Isometrics from PDS
- Piping stress analysis of Critical Lines
- Updating Client comments



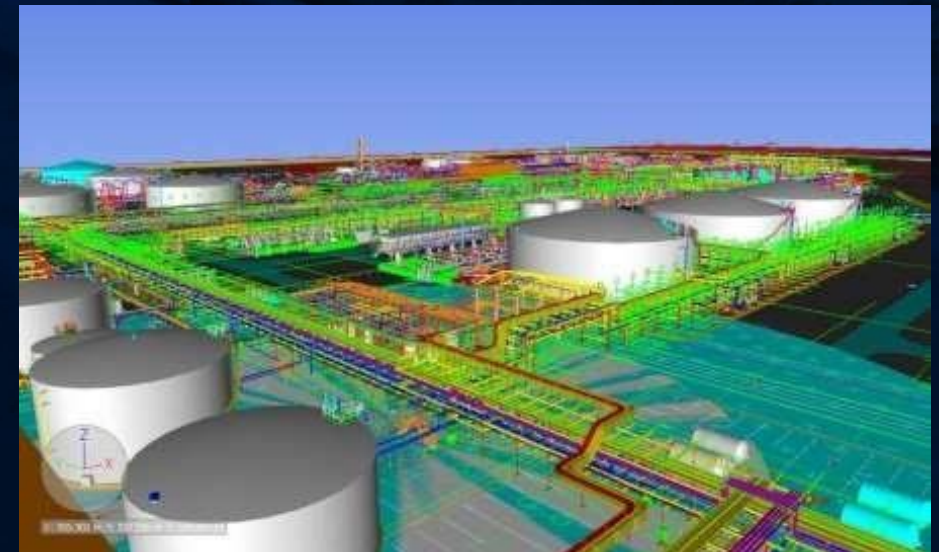
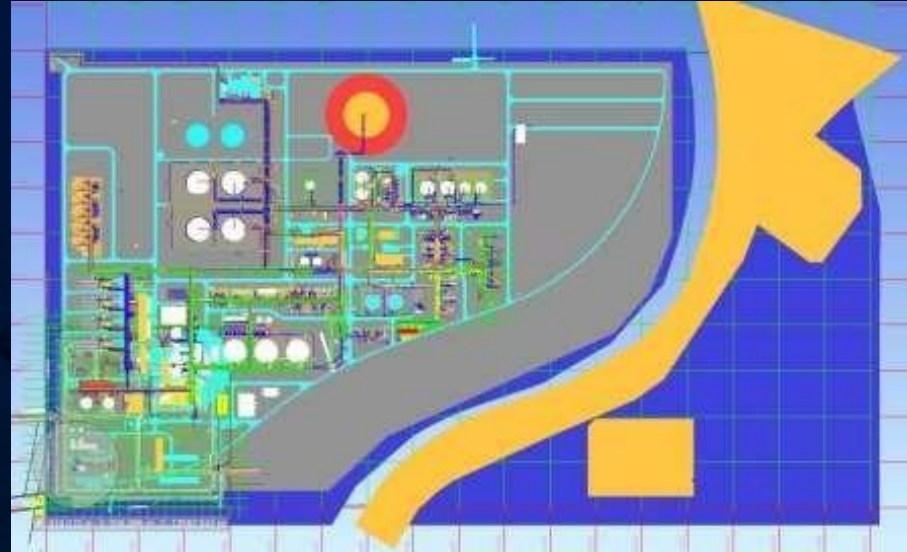
Sabhiya Power & Distillation Plant

- Detailed Engineering and Piping of Power Plant
- Equipment Modeling based on plant layout
- Heater connecting pipe routing from P&ID on PDMS
- Equipment instrumentation modeling with cable trays on PDMS
- Piping MTO Preparations
- Electrical Equipment modeling on PDMS
- Generation of GA Drawings and Pipe Isometrics from PDMS
- IBR Package Preparation
- Piping stress analysis of Critical Lines



Vedanta Gas Plant, Gujarat

- Detailed Engineering for water treatment package for Vedanta Gas Plant, Gujarat
- Database Setup and Administration support for S3D
- Equipment modeling in S3D
- Pipe Routing and 3D Modeling in S3D (2500+ Nos. Lines)
- Generation of GA Drawings in S3D (200+ Nos. GAD)
- Generation of Isometric Drawings in S3D
- Stress Analysis of High Pressure Steam Lines - 4 Nos. (47ATA & 160 °C – 2 Nos. 60 ATA & 220 °C – 2 Nos.)
- Pipe Support Standard updating
- Updating Client comments



Clean Fuel Project – Thai Oil-Petrofac

IFC Piping Isometric submission and 3D Modeling update of Clean Fuel Project (Through Citrix)

Scope of Work

- IFC Isometric Issue
- Piping/Pipe Support Update as per check print in S3D thru VDI.
- Isometric Checking as per job note and other documents
- Isometrics Extraction and back checking
- 3D Modeling update of piping as per “Job specification for 3D modeling”
- Extraction of Isometrics as per the client standards



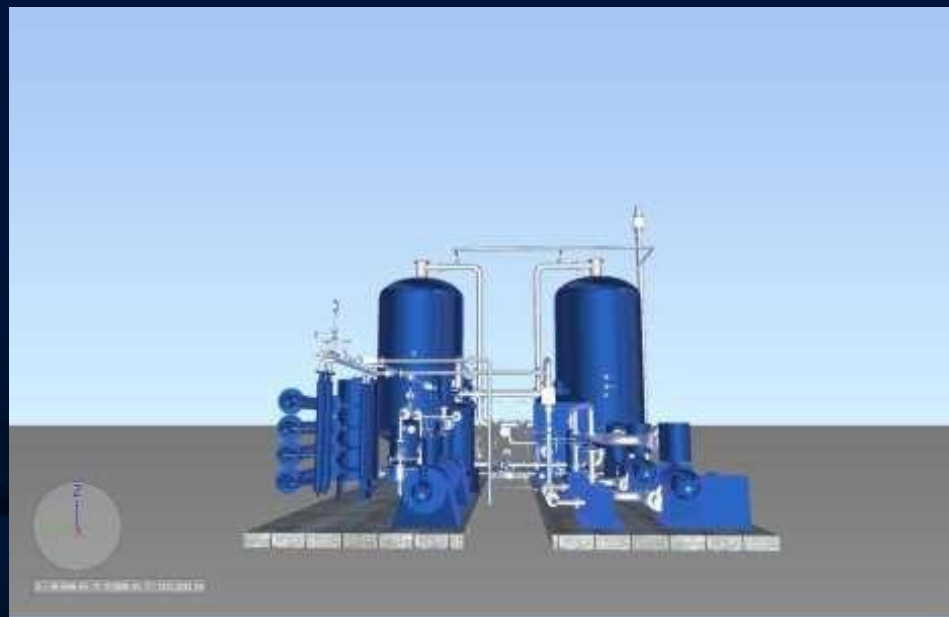
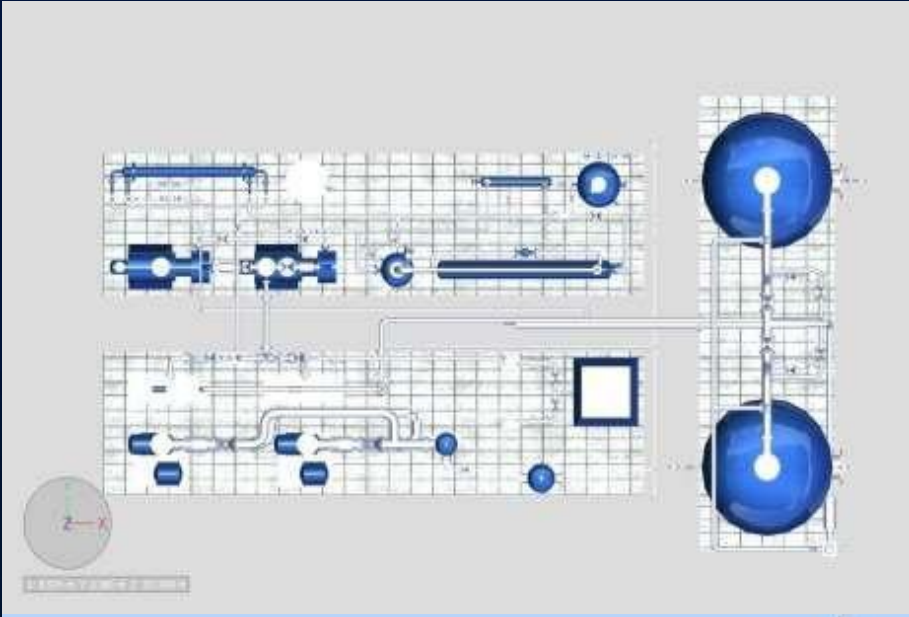
Vapour Recovery Units

Vapour Recovery Unit – IOCL, Mathura

- Detailed Engineering & Preparation for VRU, Mathura Refinery – IOCL
- Generating Equipment Layout
- Generation of Equipment GA Drawings
- Generation of Equipment Fabrication Drawings
- Equipment modeling in PDS
- Pipeline Routing with reference to P&ID
- Generating GA Drawings from PDS
- Generating Piping Isometric Drawings
- Pipe Support Standard generation
- Skid Structure design and drawing
- Foundation design Calculation Vapour Recovery Unit
- Updating Client Comments with reference to client review

Vapour Recovery Unit-BPCL, Ennore

- Detailed Engineering & Preparation for Vapor Recovery Unit, Ennore Refinery- BPCL
- Generating Equipment Layout
- Generation of Equipment GA Drawings.
- Generation of Equipment Fabrication Drawings
- Equipment modeling in PDS
- Pipeline Routing with reference to P&ID
- Generating GA Drawings from PDS
- Generating Piping Isometric Drawings
- Pipe Support Standard generation
- Skid Structure design and drawing
- Foundation design Calculation
- Updating Client Comments with reference



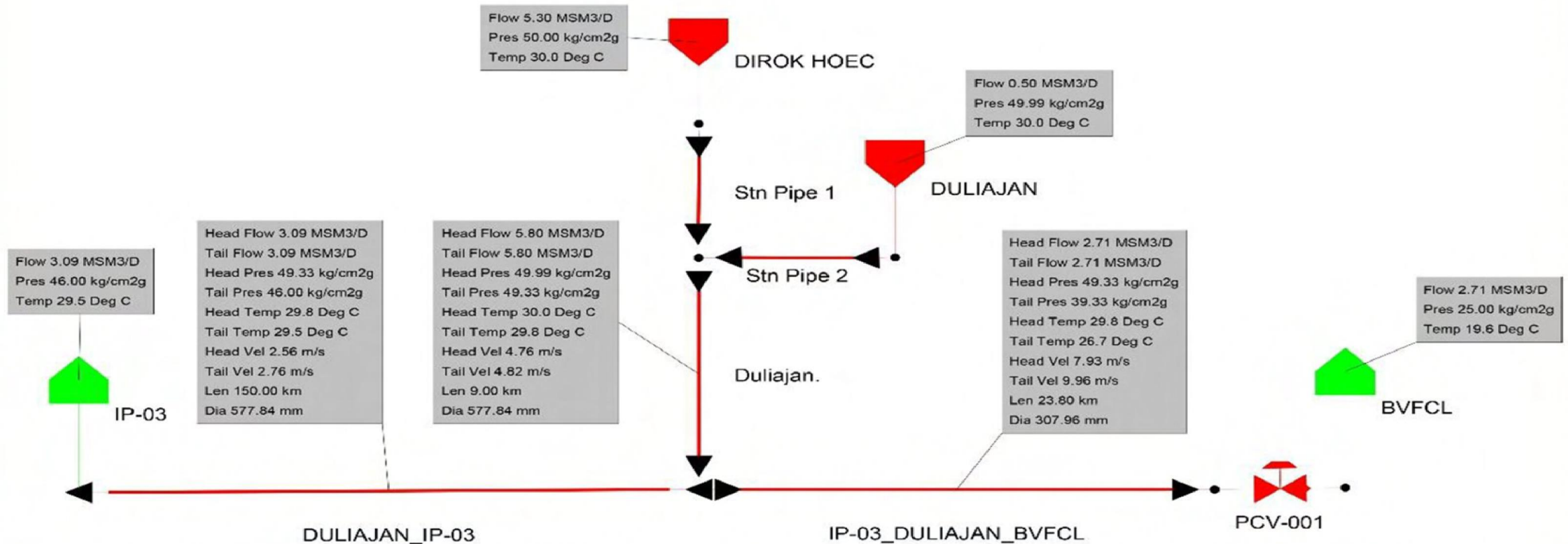
Bokaro Steel Plant, Jharkhand

- Detailed Engineering and Stress Analysis of High Pressure and High temperature Steam Lines for Bokaro Steel Plant, Jharkhand
- Pipe Thickness Calculation and Piping Specification creation
- Stress Analysis of High Pressure and High Temperature
- Steam Lines - 4 Nos. (39 ATA, 520 °C - 3 Nos., 100ATA, 560 °C – 1 Nos.)
- Updating Isometrics as per comments
- Stabilizing Turbine connections
- Generating Support Standard Drawings
- Spring Support modulation

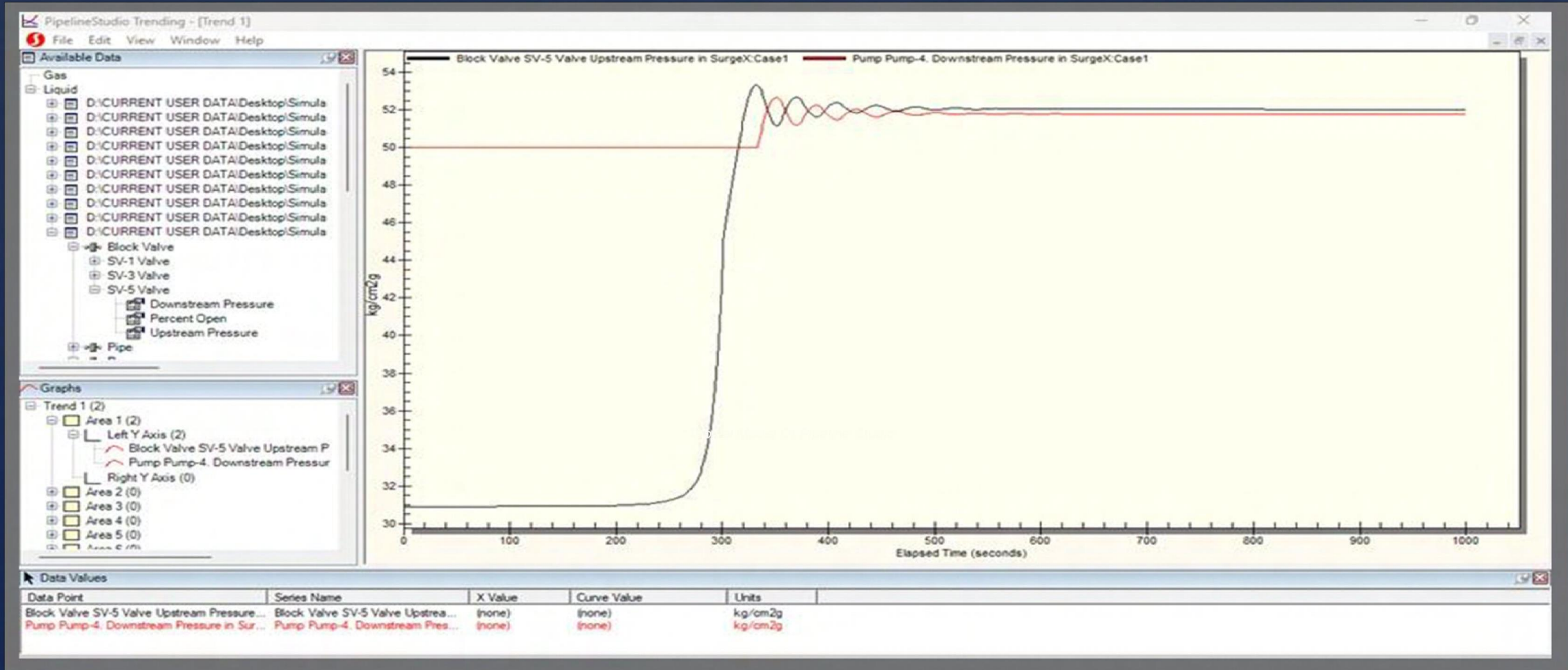


SPECIAL CAPABILITIES

STEADY STATE HYDRAULIC ANALYSIS STUDY

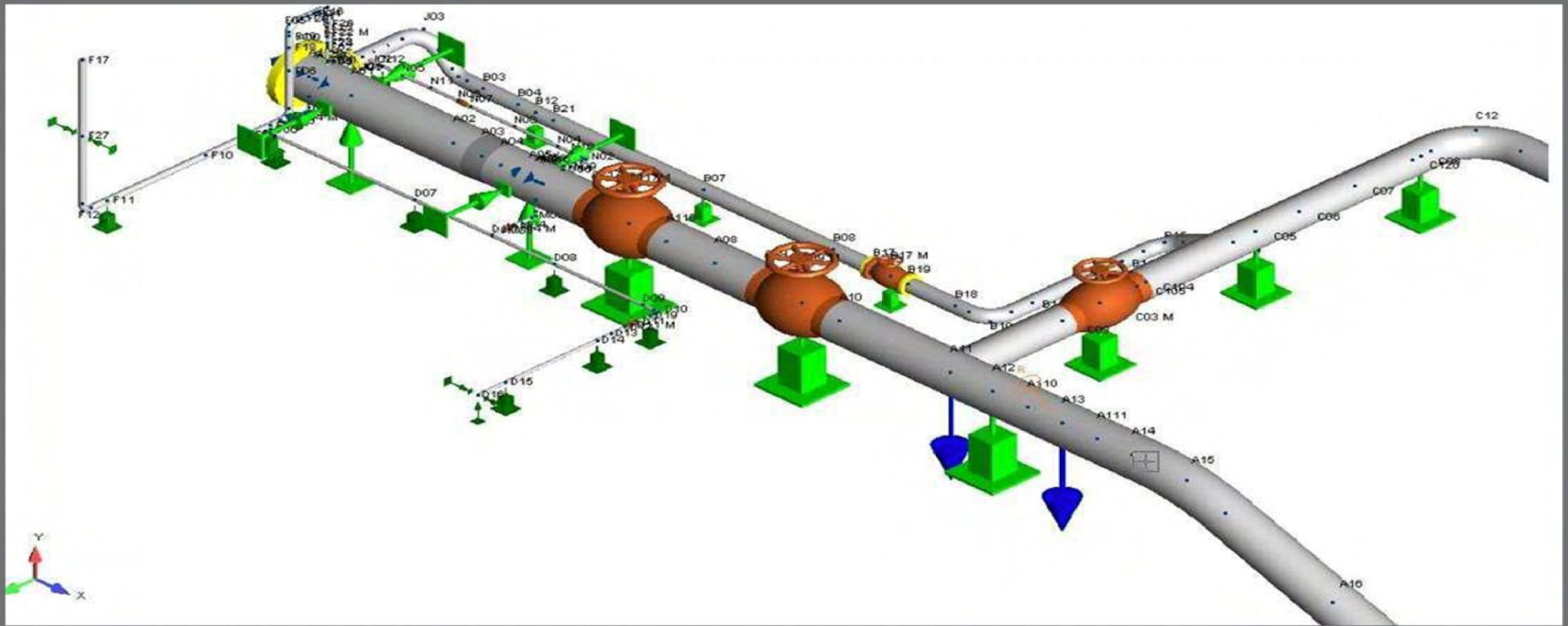


SURGE ANALYSIS



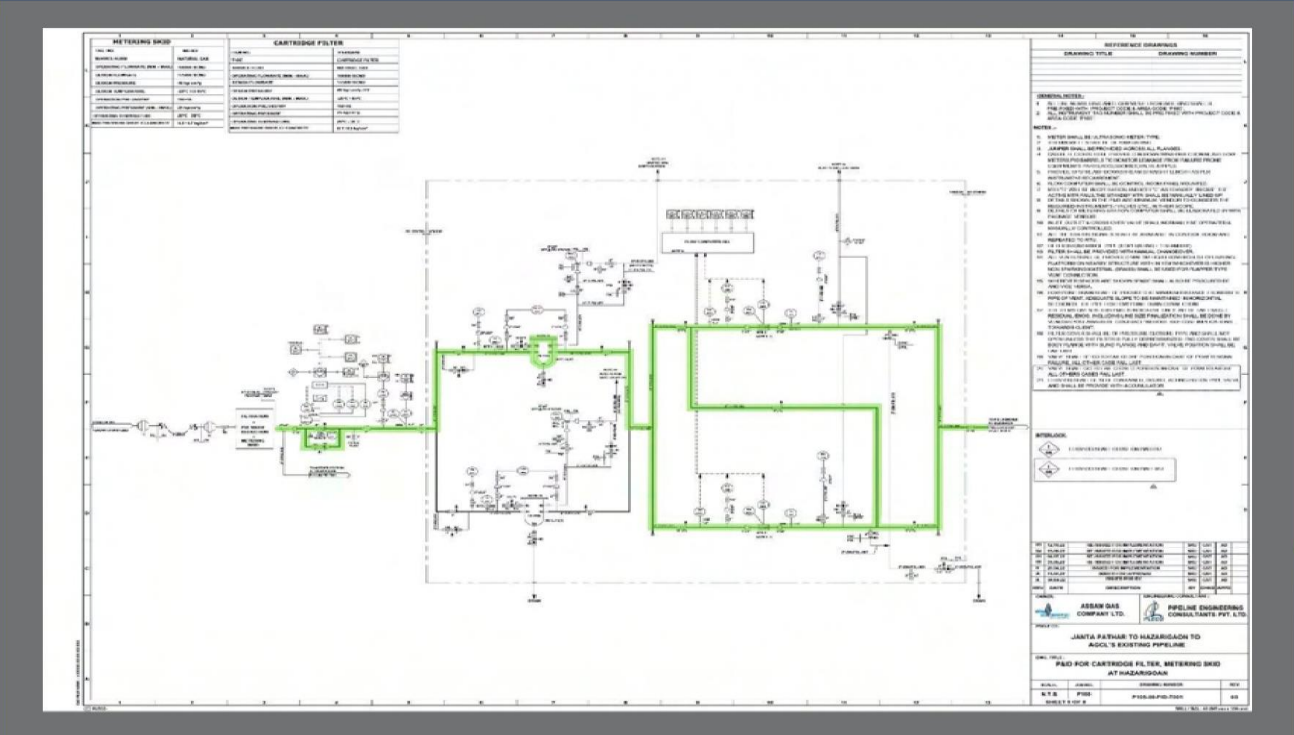
*Typical Model Of Pipeline Studio

STRESS ANALYSIS



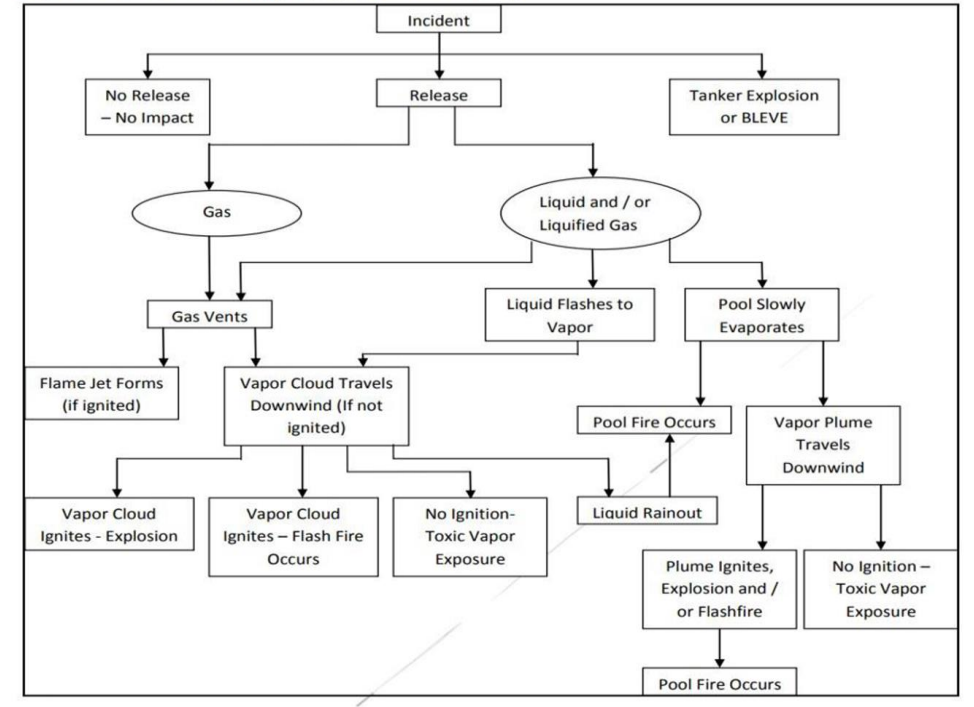
*Typical Model

HAZOP/ HAZID SIL

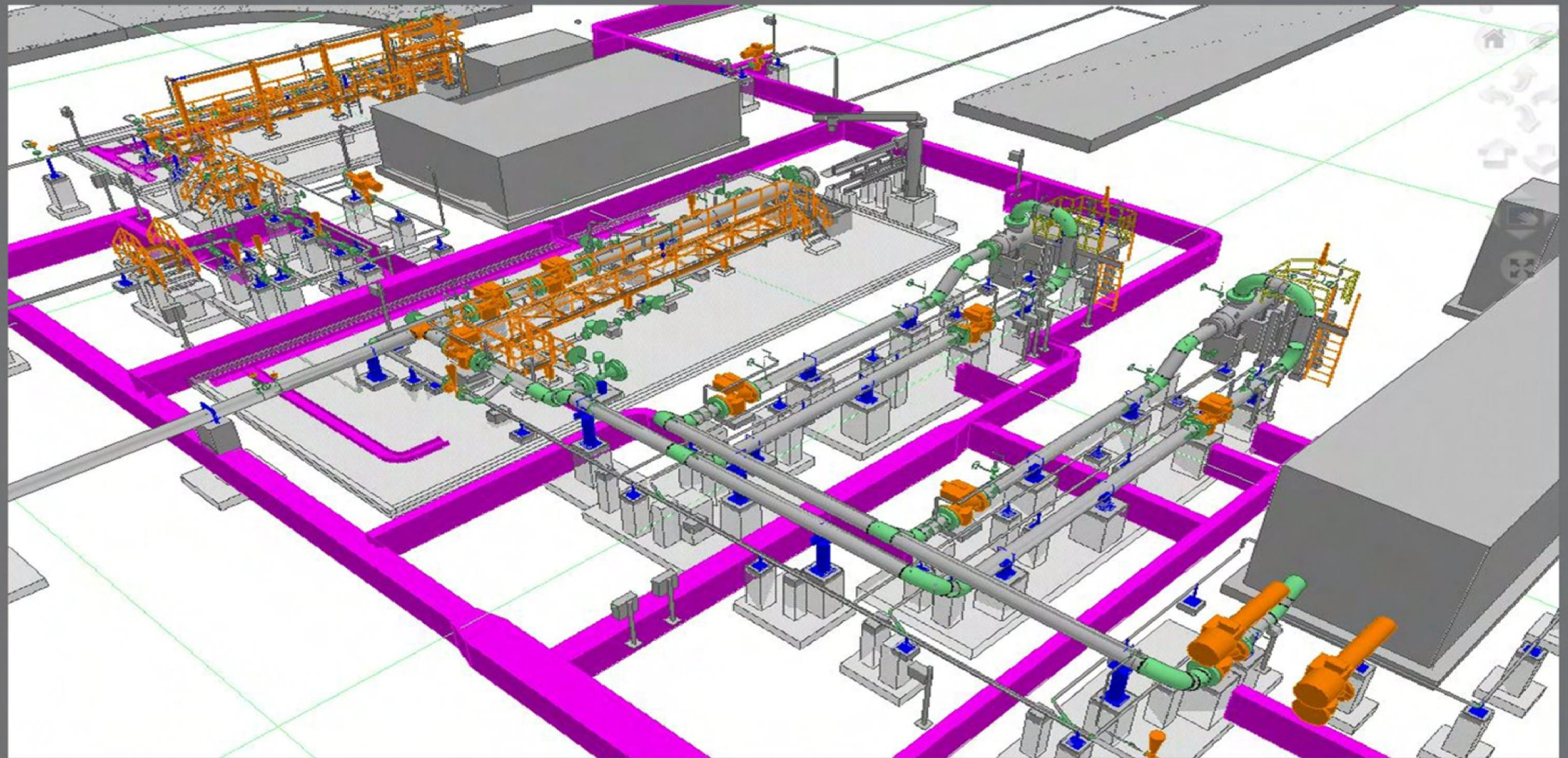


QRA

Figure 4-1: Methodology adopted for the study



3D MODELING



CORPORATE TEAM EXPERIENCE

CORPORATE TEAM EXPERIENCE



CORPORATE TEAM EXPERIENCE



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**'THANK
YOU!**