

# ***SEPADU*** ***TECH PVT LTD***

ENGINEERING & PROJECT MANAGEMENT SERVICES



# SEPADU

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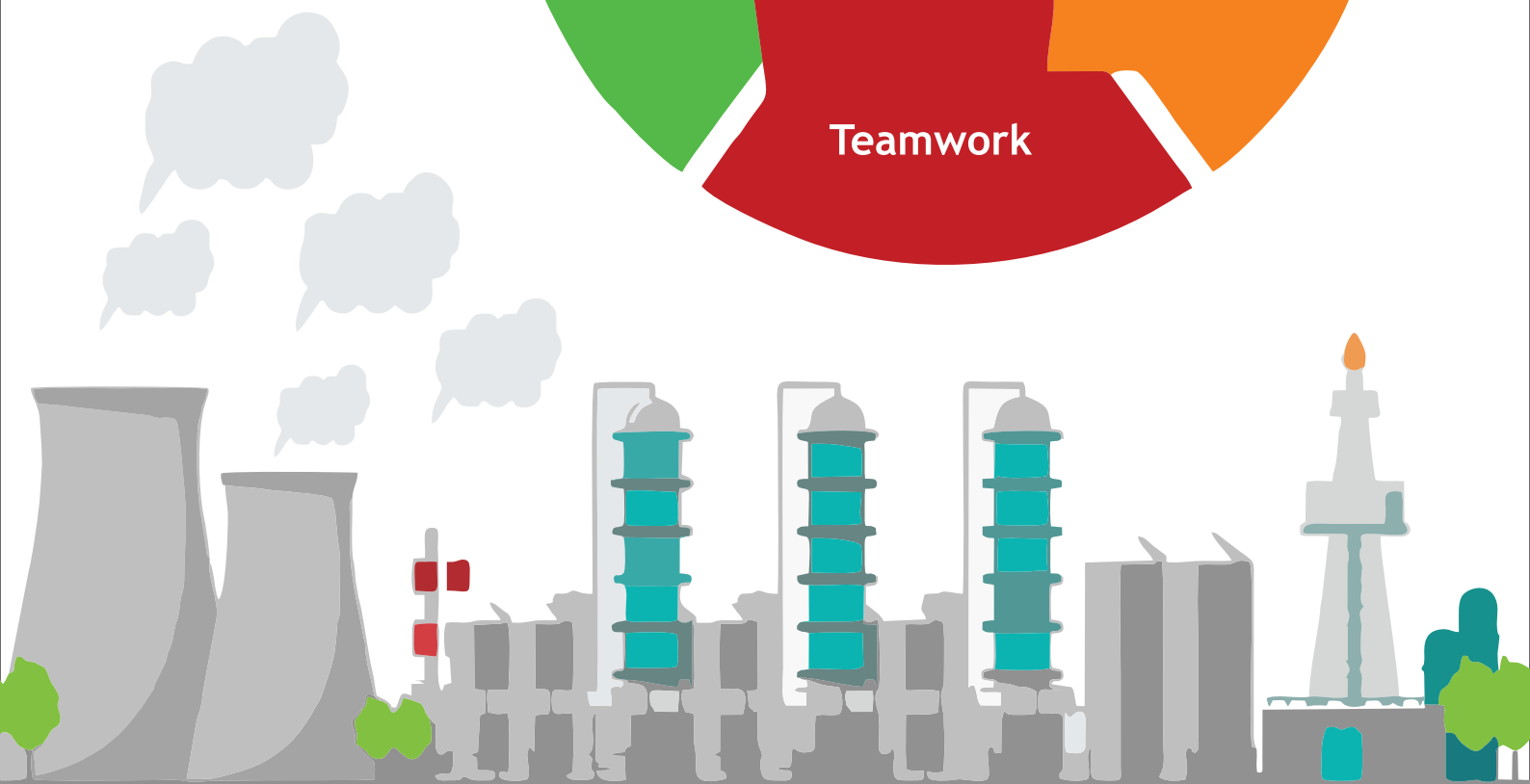
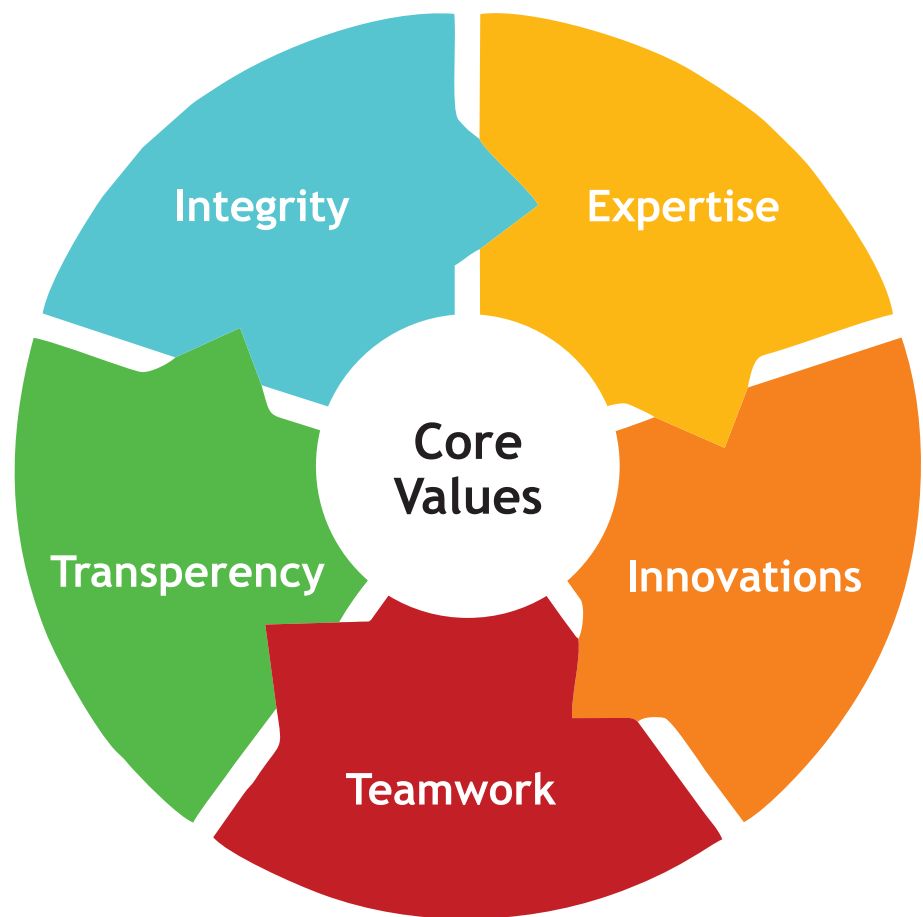
SEPADU TECH PVT LTD is One Stop Engineering Services provider to Oil & Gas, Power, Water & Waste water treatment, Chemical & allied Industries across the globe for Complete project Life cycle.

## VISION

To be World class Engineering Solutions Provider to Oil & Gas, Power, Water & Chemical Industry.

## MISSION

Sepadu Tech aims to achieve business success & Sustain by Providing Cost-Effective Value Engineering & Solutions by complying to Stringent Health, safety, Environment (HSE)



# OIL & GAS

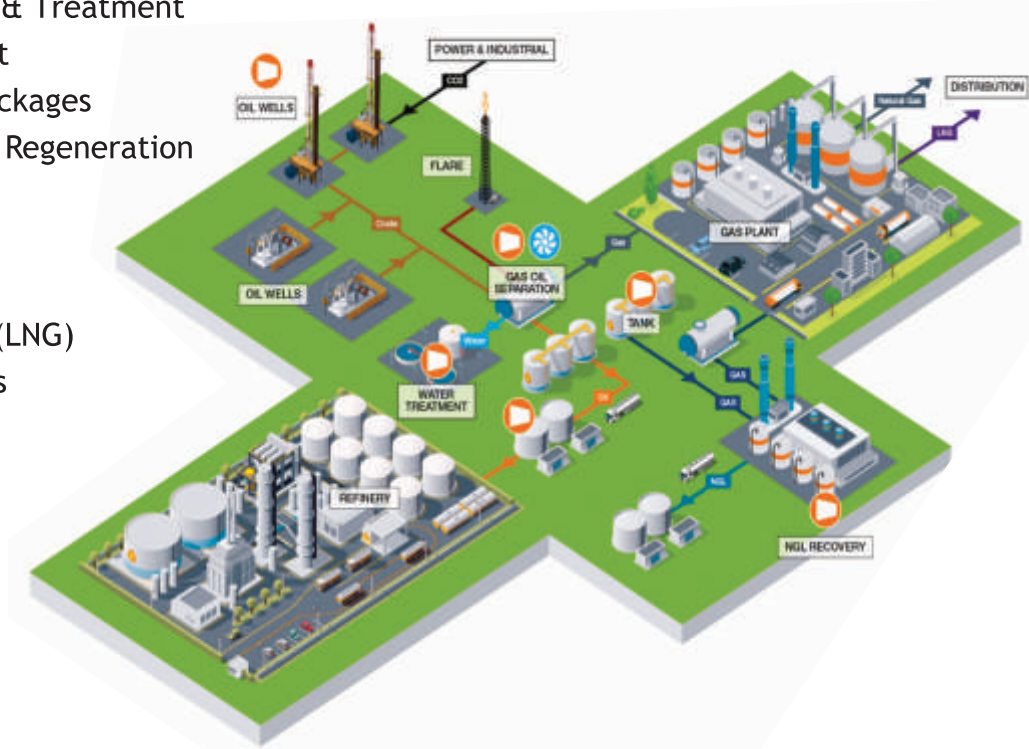


**Sepadu Tech Pvt Ltd** is Plant Design & Engineering Service provider for Oil & Gas Projects.

We have capability to Support with Project Management, Multidiscipline Engineering & 3D Modeling activities using SP3D/PDMS/E3D Software for Greenfield & Brownfield Projects.

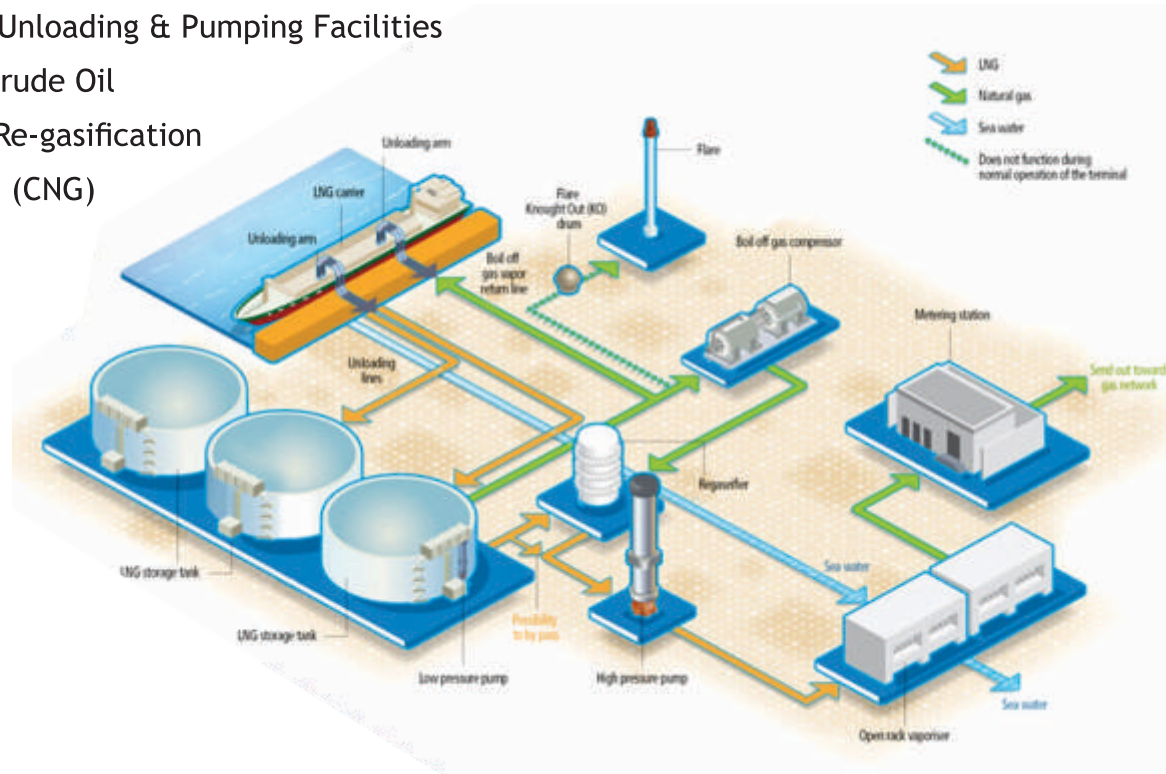
## OIL & GAS- UPSTREAM

- Well Cluster- Wellheads
- Flow & Gathering Lines
- Slug Catcher
- Separators & Crude Handling
- Produced Water Handling & Treatment
- Gas Handling & Treatment
- Flash Gas Compression Packages
- Gas Dehydration & Glycol Regeneration
- Acid Gas Removal
- Mercury Removal
- HP Gas Compression
- Natural Gas Liquification (LNG)
- Utilities & Boiler Facilities
- Launcher & Receiver
- Pipelines



## Oil & Gas- Midstream/ Terminals

- Jetty - Loading, Unloading & Pumping Facilities
- Storage Tanks- Crude Oil
- LNG Terminal & Re-gasification
- Gas Compression (CNG)

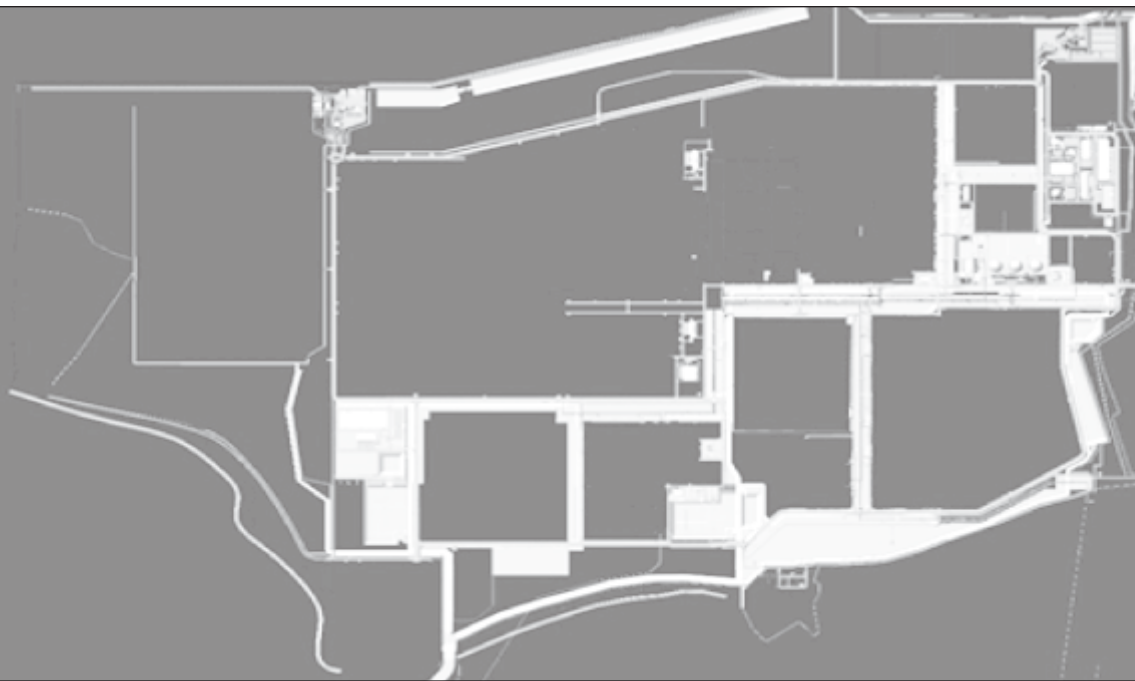


## OIL & GAS DOWNSTREAM-REFINERY & PETROCHEMICAL COMPLEX

- Refinery
- Petrochemical Packages
- Water Treatment Packages
- Utilities & Offsite Facilities
- Power Plant - Gas Fired (CCP)
- Product Storage- Tank Farms
- Unloading & Offloading Facilities

## PROJECT REFERENCES

- RAPID-P14-701 UIO Facilities
- Long Son Refinery -Boiler Package
- Mundra LNG Terminal
- Haldiya Refinery- Fire Water System
- HAZIRA LNG Terminal - Unloading facilities
- ADNOC WHR- Waste Heat Recovery Package
- Sulphate Removal Plant- Cairn Oil & Gas
- YIBAL KHUFF- Water Treatment Packages



# CHEMICAL INDUSTRIES

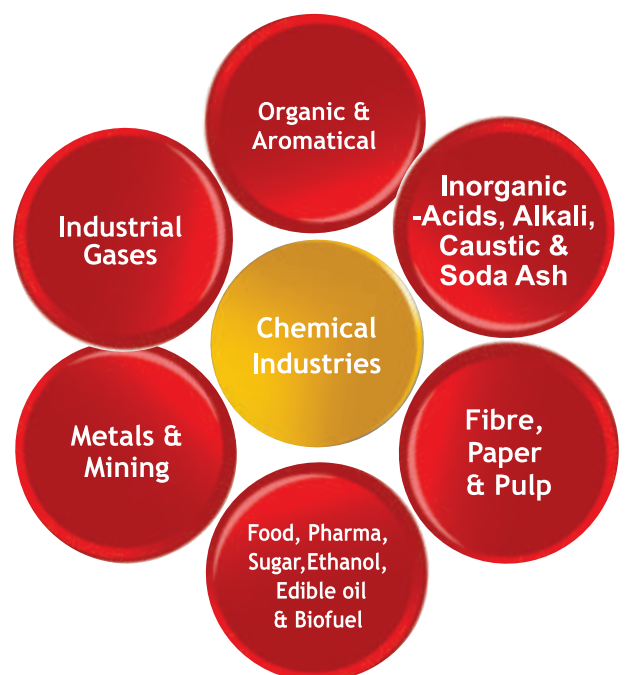


**Sepadu Tech Pvt Ltd** is Plant Design & Engineering Service provider for chemical Industries using advanced Engineering Software & Tools

We have capability to Support with Project Management, Multidiscipline Engineering Design & 3D Modeling activities using SP3D/PDMS/E3D Software for Greenfield & Brownfield Projects.

## VALUE ENGINEERING

- Front End & Feasibility studies to identify alternative Technology options to Select most economical concept
- Process Optimisation & De-bottleneck studies
- Fast Track Execution-Schedule time reduction
- Constructability study-Modular Vs Field Construction
- Local Regulatory Compliance
- Compliance to International or local standards
- Compliance to HSE standards
- Cost optimisation & Control



## PROJECTS

- CO2 Liquification Plant
- Nirma-Phosphoric Acid Plant
- Nirma Addition Of Cooling Tower
- 800 TPD Caustic Soda Plant(GNAL)
- CMMS Skids for Dr. Reddy's
- RSPL Chemical Complex
- Grasim Rahela Project

# Power, Utilities & FGD Plant



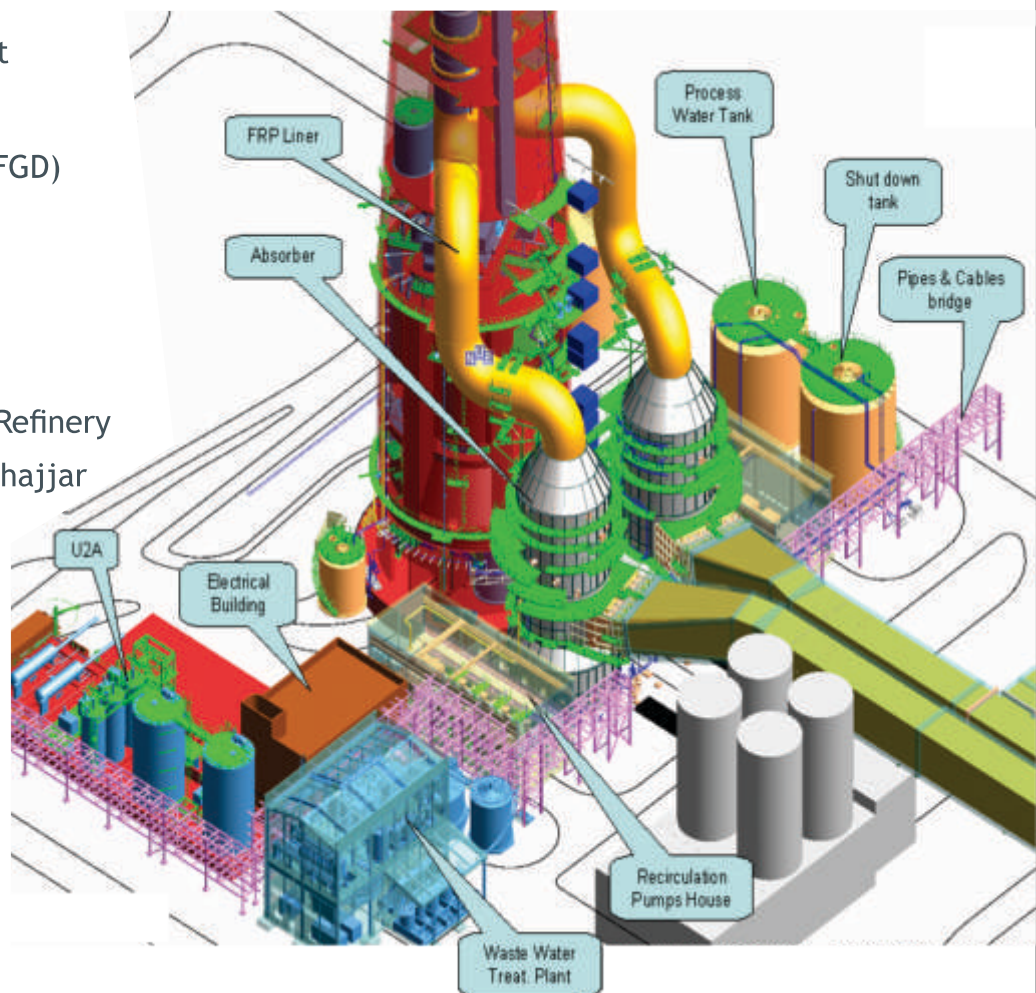
**Sepadu Tech Pvt Ltd** is Plant Design & Engineering Service provider for Power, Utilities & FGD Plant Facilities to support with Project Management, Multidiscipline Engineering Design & 3D Modeling activities using SP3D/PDMS/E3D Software for Greenfield & Brownfield in Workshare Environment.

## Design & Engineering for Power Plant

- Thermal Power Plant
- Combined Cycle Power Plant
- Boiler & Heaters
- Co-Generation
- Flue Gas Desulphurization (FGD)
- Balance of Plant Facilities
- Solar Plant Facility

## Project References

- Boiler Package for Longson Refinery
- FGD-Solapur/Tanda/MEJA/Jhajjar
- FGD -Jawaharpur
- FGD-Gadarwara
- FGD-Kudgi
- FGD-Nagison II



# Water & Waste Treatment

**Sepadu Tech Pvt Ltd** is Plant design & Engineering Service provider for Water & Waste Water Treatment Facilities and skids for Industrial & Domestic applications Using Conventional & Advanced Water Treatment Technologies.

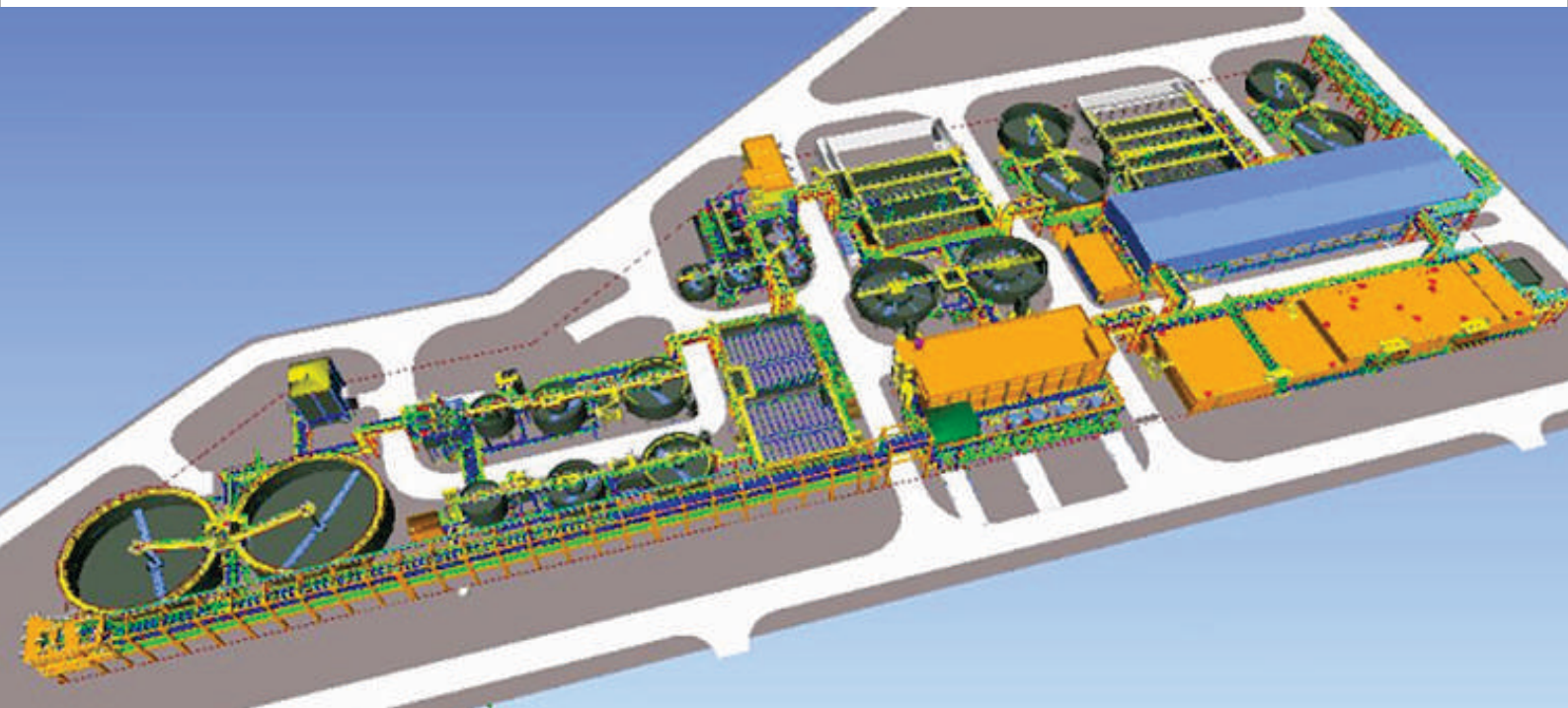
Our Competencies includes Project Management, Process Engineering, Multidiscipline Engineering Design & 3D Modeling activities.

## Project references

- BOKOR CPP- Water Treatment & Injection
- SWRO Phase II Expansion
- 30 MLD SWRO Desalination Plant
- 50MLD RO Desalination Project
- RAPID P-14 UIO- Water Treatment Packages
- MHPS OLKARIA V

## Process Plant facilities includes

- Raw water Treatment
- Sea water Desalination
- Produced Water Treatment
- DM & Condensate Polishing Plants
- Sewage Treatment Plants
- Effluent Treatment Plant
- Zero liquid discharge Plant
- Fire Water System
- Pipelines



## Scope of Services

- Conceptual/FEED
- Detailed Engineering
- Procurement Support
- Project management Services
- Laser Scanning & Brownfield Engg.
- Manpower Supply

## Engineering Services for Project Lifecycle



### Projects Management

- Project Planning & Control
- Construction Management Support
- Cost Estimation & Optimisation

### Process & Safety Engineering

- Concept Selection & Conceptual Engineering.
- Steady State and Dynamic Process simulation
- PFD, UFD, Mass & Heat balance
- Equipment and Relief system Sizing
- PID's, PDS, Load list, Equipment list
- HAZOP, HAZID, QRA, Fire & Explosion
- Dispersion, Fume & Flare radiations studies
- Firewater Demand & Surge analysis Study
- Software & Tools  
SP PID, ASPEN HYSYS, FLARESIM, PIPESIM, PIPENET, AFT SOFTWARE, FLARESIM, CFD

### Instrumentation Engineering

- Instrument Design Basis
- Specification & Datasheets
- Logic diagrams & Loop diagrams
- Control system design & specification
- Wiring drawings, Instrument Hook-ups
- Software & Tools  
Instrucalc & SP -Instrumentation

### Mechanical Engineering- Static/HVAC/Rotating

- Design & Datasheets for Static Equipment
- Skids & Rotating Packages
- HVAC Load Calculations
- Duct fabrication drawings
- RFQ/TBE - Static, Rotating & HVAC
- Fabrication Drawings & MTO
- Field Engineering Support
- Software & Tools  
PV Elite, Compress, Ansys, HVAC Solutions

### Facility Layouts & Piping Engineering

- Plot Plans
- Conceptual Equipment layouts,
- Piping Material Specifications & datasheets
- Study Piping GAD
- Pipe stress Reports
- 3D Modeling - SP 3D/ E3D/PDMS
- Deliverable  
*Material take off*  
*Piping GAD*  
*Isometrics -System/Spool Isometrics*  
*Supports Detail Drawings*
- Piping Fabrication & Field Engineering
- As-built Engineering
- Software & Tools  
SP 3D, PDS, PDMS, CADWORKS, AUTOCAD Plant 3D, CEASAR 2, SPOOLGEN



## Civil & Structural Engineering

- Conceptual Structural GA Drawings
- Foundation Design & GAD
- Structural Analysis for RCC & Steel
- Dynamic structural Analysis
- Detail Fabrication & Installation drawings
- MTO
- Software & Tools

SP3D, PDMS, TEKLA, BOCAD, REVIT, STADPRO, SACS

## Electrical Engineering

- Electrical Equipment Datasheets
- Single line Diagrams (SLD)
- Power system simulation- ETAP/EDSA Software  
Load, Fault, Transient stability, ARC Flash analysis  
Cable Scheduling, Tray sizing, & Transformer sizing.
- Wiring diagram & Cable Tray Layouts
- Lighting layouts
- 3D Modeling -Cable tray & Electrical Equipment
- Software & Tools

SP-3D, PDMS, SP Electrical & ETAP

## 3D Modeling & Integrated Engineering Services-

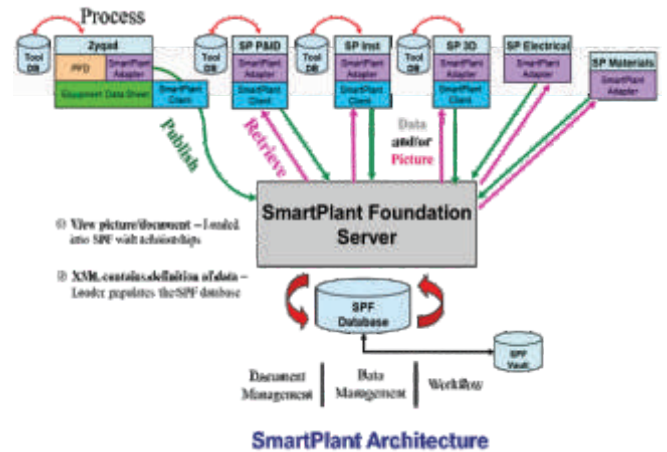
### AVEVA Engineering (E3D, PDMS, PID)

**Integrated Engineering & Design**

**Sharing same technology architecture**

- Concurrent, multi-discipline, multi-user, multi-site working environment
- The schematics data is managed together with the 3D and Engineering data **in the same context environment**
- Single definition of Status/Maturity
- Users can easily access reference data from other applications and vice versa
- Existing system administration skills can be used for all applications
- Open Configuration/Customisation
- Standards driven data governance (CFRHS, ISO15006, customer standards)

### HEXAGON PPM (SPF, SP3D, SP PID, SP Materials, SP Instrumentation)



## Leadership Team

*Gautam Wayse- MD/ Chief Technology Officer*

*19+ year experience in area of Piping, Process, & Engineering Management for Concept FEED & Detailed Engineering, Field Engineering & Reverse Engineering of Multibillion dollar Projects. SME on Piping, Non-metallic- Piping & equipment's, Brownfield Engineering for Asset Integrity, retrofit/De-bottleneck/ R & M for Marine, Topsides facilities of Production Facilities and Power plant. He was associated with Petronas upstream business as TA2, Technip Abu Dhabi, AMEC Blackcat Qatar, Petrofac Sharjah, Samsung Heavy industries & Doosan heavy Industries.*

*Vishwas Nawale –Director -Project Management & Delivery*

*Mr. Vishwas Nawale has more than 17 years work experience in field of Project & Business management for Chemical, Power, Oil & Gas and Water Treatment Projects. He has successfully delivered more than 20 Engineering Projects*

*Soni bhavik- Director – Facility Layouts & 3D Plant Engineering*

*He has 18+ year experience proficient in Facility Layout & Piping Engineering activities for Conceptual, FEED, Detailed Engineering construction of Offshore and Onshore). He was associated with companies like Sapura Energy Sdn bhd (Malaysia), Samsung Heavy Industries, Mott Mcdonald & has extensive experience of working on major offshore projects in Greenfield & brownfield across the world*

*Mr. Garimella Sanyasiah- Principal Technical Adviser & Mentor*

*42+ years' work experience Specialized in Mechanical/Piping, Worked with UHDE India, NOICIL-Shell Group, Chiyoda Corp Japan, Halliburton, KBR, Qatar Petroleum, Petronas Upstream Custodian for Static/Piping, GTS as TP Principal. He has rich experience in oil & gas onshore & offshore Facilities, New Technology assessment & implementation. Worked Middle East, SEA, South America, North Sea regions, Japan & Korea and almost region.*

*Mr. PK ROYCHUDHURY – Principal Technical Adviser & Mentor –*

*Offshore Projects 45+ Year rich Experience as Piping & Layout Specialist for offshore & onshore facilities. He is pioneer to Setting up & heading Piping Dept of offshore engineering Centre for EIL, Triune projects, HHI Korea , Punj loyyed, SHI India, Bumi Armada Malaysia. he has zeal for coaching, mentoring, Sharing knowledge & Experience. He has supported more than 100 offshore projects across the globe.*

*Dr. Balaji Kadam – Sr. Consultant- Process licensing & Technology*

*Phd in Chemical Engineering under Padambhushan Prof. J B Joshi. More than 12 Year experience in area of Process technology licensing, Process safety & Process Engineering for chemical, Oil & Gas Facilities*

*Mr. Partha Pritam Maity – Principal Consultant*

*MCI & Integrity 30 Year working Experience with EIL, Galfar, Gulf Petrochemical services & Petronas Upstream Malaysia as Specialist - Material, Corrosion, Integrity & Inspection Specialist.*

## Resources

### Manpower

Process Team=8+

Regular Employee - 50+

Contract staff - 10+ In/Out depending need

Senior consultants= 12+

### Office

Well equipped office with

50-60+ Employee seating capacity &

Expandable to additional 60 packs with in

1-2 week time depending on Project need

## Company Policies

Quality Policy- ISO Certified by TUV Austria

HSE Policy

Information Security Policy



## Associate Company- Chandan Specialty Engineering Services

### Engineering Services- Marine & Offshore Projects

- Marine- Ship, Hull, Jacket, Tripod, Semi-submersible
- Topside- Wellheads, CPP, FPSO, FLNG, Drillship, Power barge
- Floating Fuelling Station

### Specialist Consultancy Services

- Non-Metallic Piping & Equipment (TP, FRP, Dual laminates, RTP)
- Valves, Skids & Packages for oil & gas
- Process, Risk & Safety
- FEA/CFD Analysis services
- Power System Simulations

### Brownfield & Asset Integrity Management

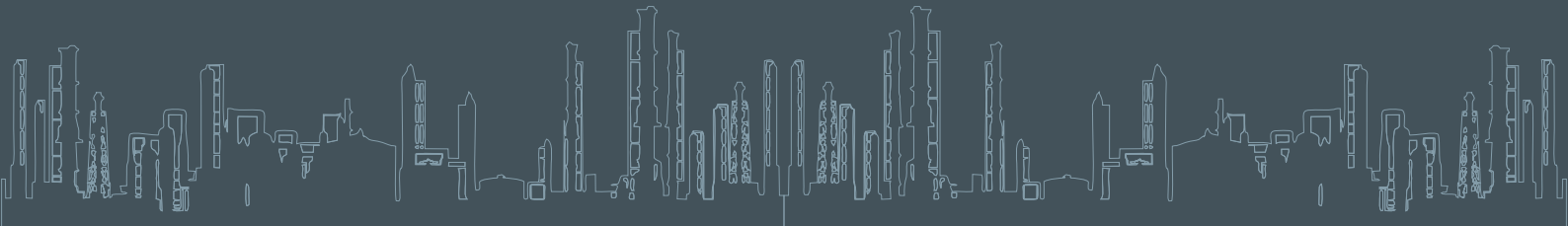
- De-bottleneck Studies
- Retrofit & Fit for Purpose analysis
- Construction & Demolition Workpacks
- Asset integrity Framework for PPM industry
- Risk based Inspections
- Asset life Remained Calculations
- Asset Life Extension

### Technology Development & TRL Assessment

- Oil & Gas -Skids & Packages, Gas processing & LNG Facilities
- Clean Environment Technologies
- Scrubbing System- Fumes, Dust
- FGD-Thermal Power Plant & Sea Going ship
- VOC, Flare recovery CO2 Collection System

## OUR ASSOCIATES & CUSTOMER





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