

ENPRO ENVIRO TECH AND ENGINEERS PVT LTD

An Environment Company Which Provides Solution from Concept to Commissioning Under One Roof

ENPRO

ENVIRO TECH AND ENGINEERS PVT LTD



- Company Was Established in the year 1998 by its promoter Paresh Meyawala.
- At present company is a Private Limited Company.
- Company has following infrastructure facility

Registered Office:	306, Royal Park Adajan Road, Surat 395009
Design and Project, Consultancy Division	Plot No D2916, D2917, Road No
Env Testing Laboratory and Calibration and Validation Lab:	17, Hojiwala Industrial Estate, Sachin Palsana Road, Dist Surat
EPC Division and Equipment Production Division:	

Licensing
EIA and EC
CTE & CTO
RAR, EMP

WORK-PROFILE ENVIRONMENT BUSINESS



Environmental Project Consultancy Service

DPR
Survey & Feasibility
Basic and Detailed
Engineering
Procurement Assistance
Project Management
Service
Supervision
Commissioning
Operation and

Maintenance

ENPRO

Other Environmental Services
Environmental Monitoring
Compliance Report
Env Audit (GPCB Recg Sch II EA)
Cleaner Production Assessment
Water and Energy Audit
EMS Adequacy Statement
Up gradation Study
Environmental Damage
Assessment
Health Risk Assessment

Project Design and Turn Key Supply

ETP/CETP/STP
APC System
Incinerators / Plasma
Gasification
Sludge Dryers
MEE and ATFD
DAF, Disc Filter
PSF and ACF
UF/NF/RO Plant
Agitator/Clarifiers

Calibration and Process Validation

Instrument Calibration Process Validation

Basic Engineering Service

Process Block Diagram

Process Flow Diagram

Mass and Energy Balance

Process and Instrumentation

Diagram (P&ID)

Equipment List

Equipment Specifications

Equipment General Arrangement

Drawing

Plant Equipment Layout

Electrical Drive List

Schedule of Consumptions

Utility sizing and Consumption

HVAC System Design

Chemical and Material Handling

Storage Area Design

Fire Hydrant System Planning

WORK-PROFILE ENGINEERING BUSINESS



ENPRO

Detailed Engineering Service

Electrical

Single line diagram

Specification of Electrical Panel and

switch gear for HT/LT

Transformer sizing

Approval of BOQ of vendor and

verification of specification

Design of plant earthing and plant

lighting

DG Set sizing

Cable sizing and providing cable, cable

tray and hardware schedule

Cable route and GA Drawing with cable

tray support design

Detailed Engineering Service

Mechanical

Specification of Piping and Valves

Piping Route, Supports, Racks, GA Drawing

Piping Isometric

Incorporation / approval f vendor engineering for

bought items

Review and approval of fabrication dwg of vendors

Review and approval of QAP of vendor

Schedule of Piping, fittings and valves

Insulation Thickness Calculation and Schedule of

insulation

Detailed Engineering Service

Instrumentation

I/O List based on P&ID

Specification and Architecture for PLC/DCS system

Specification of field instrument.

Selection of instruments and approval of vendor engineering

Instrument hook up diagram

Control Logic description and providing write up to

programming agency

Schedule of Instrument / data cable, JBs and hardware

WORK-PROFILE PROCESS KNOW HOW



ENPRO

ENPRO OFFERS PROCESS KNOW HOW WITH ENGINEERING FOR FOLLOWING PRODUCTS AND BYPRODUCTS

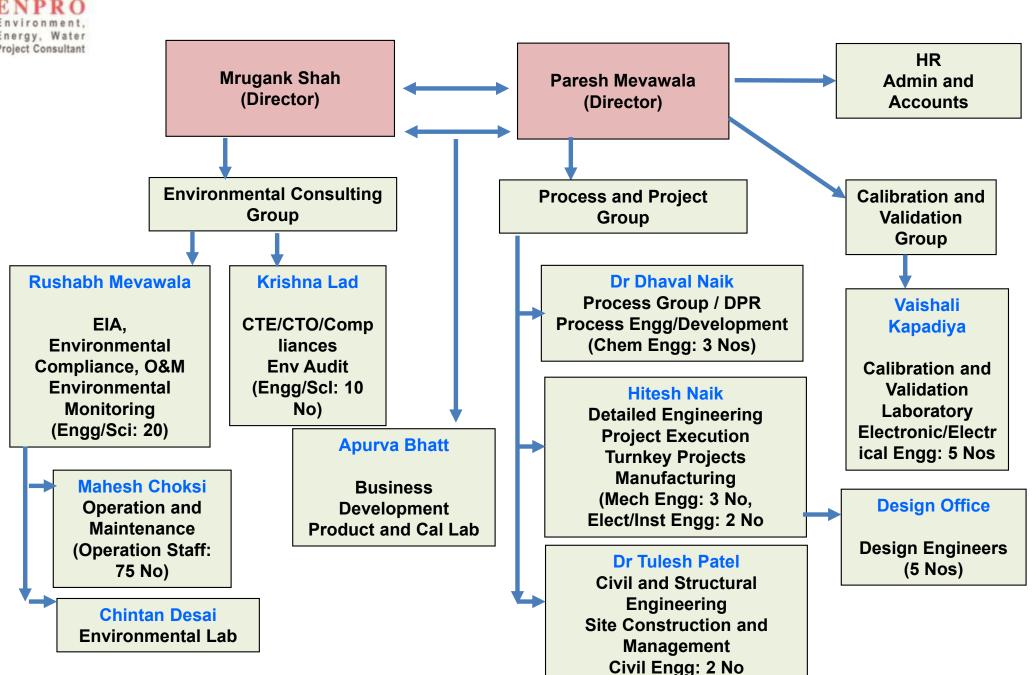
Sulfuric Acid Plant
Chloro Sulfonic Acid Plant
25%/65% Oleum Plant
Liquid SO3 Plant
Liquid SO2 Plant
SSP Plant
Alum Plant

By-Product Recovery System

Sodium Sulfite/BiSulfite from SO2 Gas
Ammonia Liquor from Ammonia Gas
Ammonium Sulfate Solution from Ammonia Gas
Na2S solution from H2S gas
30% HCl from HCl gas
Ferrous Sulfate from Dilute Sulfuric Acid
Sulfuric Acid Concentration and Purification

ENPRO Environment, Energy, Water Project Consultant

ORGANOGRAM





Sectors Covered For Environmental Service

CETPs, TSDF, MSW and BMW Facilities

Chemicals and Pharmaceuticals / API

Textile Dyeing and Printing and Weaving Industries

Engineering Sector

Fertilizers

Chlor Alkali and Heavy Chemicals

Power Plant

Paper Industries



Accreditation

Integrated Management System (IMS) ISO 9001:2015, ISO: 14001:2015, ISO: 45001: 2018

NABL (Certificate No T-1961) Accredited Laboratory for Chemical Testing

Recognised Under EPA Act By Moef & CC

NABET Accredited EIA Consultant

NABL For Calibration Laboratory



DETAILS OF SOME OF PROJECTS (ENVIRONMENTAL)



Waste Water Treatment Plants CETPs



CETPS (5 Nos)

Client Name: SMS, Nagpur

ENPRO Scope:

Basic Design, engineering, project

Management and Supervision

Capacity:

MIDC Butibori, Nagpur 5 MLD

MIDC Waluj, Aurangabad: 10 MLD

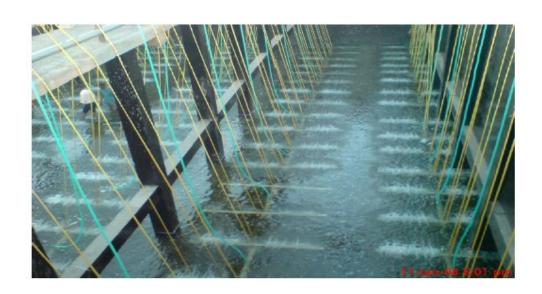
MIDC Kagal, Kolhapur: 10 MLD

MIDC Amravati: 5 MLD

Addnl MIDC Butibori: 5 MLD

Status: Operational







CETPs (4 Nos)

Client Name:

PEPL, Kadodara, Surat: 100 MLD and 150 MLD

SIEL, Sachin, Surat: 50 MLD to 80 MLD

PIL, Pandesara, Surat: 100 MLD Brown Field

HIL, Hojiwal Ind Estate, Surat: 20 MLD Green Field

ENPRO Scope:

Basic Design, engineering, project Management and Supervision, and Commissioning







CETP/ETP ZLD/Recycle Based

Client Name:

GECL, Sachin: 0.5 MLD

SMS (MIDC, Amravati): 5 MLD (2.5 MLD ZLD)

Hojiwala Infrastructure: 20 MLD

Palsana Enviro Protection Ltd: 150 MLD (30 MLD)

Ami Organics Pvt Ltd, Surat: 70 KLPD

Aarti Industries Ltd: Various Units 100-500 KLPD

Colorsperce, Surat: 100 KLPD

ENPRO Scope: Basic Design, engineering,

project management and Commissioning

Status: Completed and Commissioned





DETAILS OF CETPS COMPLETED

Sr No	Name	Scope of Work	Description
1	CETP at MIDC Amravati (Capacity: 5 MLD) (SMS Infrastructure Ltd)	DPR, Design, Engineering and Project Management	Technology: Primary, ASP Based Biological, RO Plant (3 Stage) and MEE Mode of Disposal: 2.5 MLD ZLD Status Operational
2	CETP of Hojiwala Infrastructure Ltd, Surat (Capacity: 20 MLD)	Basic Design, Detailed Engineering, Project Management Service, Commissioning and O&M	Technology: Primary, SBR Based Biological, Tertiary (DAF, Disc Filter and UF Plant) Mode of disposal: 100% Recycling Status Operational



DETAILS OF CETPS COMPLETED

Sr No	Name	Scope of Work	Description
3	CETP of Palsana Enviro Protection Ltd, Surat (Capacity: 150 MLD)	DPR, Design, Engineering and Project Management Operation Supervision	Technology: Primary, IFAS Based Biological, UF and RO Plant Mode of Disposal: 30 MLD Recycling, Balance Discharge Status: Operational
4	CETP of Globe Envirocare Ltd, Surat (Capacity: 0.5 MLD)	Basic Design, Detailed Engineering, Project Management Service, Commissioning	Technology: Primary, MEE, Biological Mode of disposal: 100% Recycling Status Operational



DETAILS OF Captive ETPs COMPLETED

Sr No	Name	Scope of Work	Description
1	Ami Organics Pvt Ltd: 70 KL/Day	Turn Key Contract	ZLD based ETP for pharmaceutical intermediate industry. Neutralization, Filtration, Stripper, MEE, ATFD SBT based biological treatment, RO Plant.
2	Aarti Industries Ltd (Diamond Unit, Dahej)	Basic Design, Detailed Engineering, Project Management Service, Commissioning	250 KL/Day Primary, Biological (SBR) MEE, RO (3 Stage) SBT Based Plant Phenol Recovery Plant



DETAILS OF CETPs / ETPs COMPLETED

Sr No	Name	Scope of Work	Description
3	Valiant Organic	Basic Design, Detailed Engineering, Project Management Service, Commissioning	Neutralization, MEE, Ozonation, Biological, RO
4	L & T, Hazira	Basic Design, Detailed Engineering, Project Management Service, Commissioning	Utility and Process Effluent Primary Treatment UF followed by RO
5	MEPL, MIDC, Ranjangaon, Pune	Basic Design, Detailed Engineering, Project Management Service, Commissioning	TSDF 100 KL/Day Primary, Stripprt, MEE, Biological, RO Plant



DETAILS OF Captive ETPs UNDER EXECUTION

Sr No	Name	Scope of Work	Description
6	Colourtex, Vilayat / Sachin / Pandesara	Basic Design, Detailed Engineering, Project Management Service, Commissioning	20 MLD Primary, Two Stage Secondary Conc Stream Neutralization, Stripper, MEE
7	Chemanol, Jubail, Saudi	Basic Engineering	1 MLD Upgradation of Existing ETP
8	SMS, GIDC, Goa	Basic Design, Detailed Engineering, Project Management Service, Commissioning	TSDF 100 KL/Day Primary, Stripper, MEE, Biological, RO Plant
9	Heubach, Dahej	Basic and Detailed engineering	ETP: 500 KL/Day



DETAILS OF Captive ETPs UNDER EXECUTION

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8	SMS, GIDC, Goa	Basic Design, Detailed Engineering, Project Management Service, Commissioning	TSDF 100 KL/Day Primary, Stripper, MEE, Biological, RO Plant
9	Heubach, Dahej	Basic and Detailed engineering	ETP: 500 KL/Day



CETP O & M



CETP O & M / Operation Supervision

Sr No	Name	Scope of Work
1	Pandesara Infrastructure Ltd, Surat (Under ENPRO's Subsidiary, Mohit Enviro Infra Pvt Ltd)	O & M and Env Management Member Pre Primary Checking and Sampling and Analysis Member Flow Measurement with SCADA system Network Maintenance, cleaning and repairs Pumping Station O & M Raising Mail Maintenance CETP O & M Member's Stack Monitoring and Ambient Air quality Monitoring of Estate Total Staff 70+ Tenure 10+ Years



CETP O & M / Operation Supervision

Sr No	Name	Scope of Work
2	Hojiwala Infrastructure Ltd, Surat	O & M and Env Management Member Pre Primary Checking and Sampling and Analysis Member Flow Measurement with SCADA system Network Maintenance, cleaning and repairs Recycle Network CETP O & M Total Staff 30+ Tenure 1+ Years
3	Palsana Enviro Protection Ltd, Surat	Technical Support for Operation of Treatment and Recycling Part



Hazardous Waste and Bio Medical Waste Project



DETAILS OF TSDF SITE COMPLETED AND UNDER EXECUTION

Sr No	Name	Scope of Work	Description
1	TSDF, MIDC, Ranjangaon, Pune	Basic Design, Detailed Engineering, Project Management Service, Commissioning	Plasma Gasification Project 50 TPD Under Operation
2	TSDF, MIDC, Ranjangaon, Pune	Basic Design, Detailed Engineering, Project Management Service, Commissioning	Liquid Incinerator 20 TPD Under Commissioning
3	TSDF, MIDC Butibori, Nagpur	Turnkey Contract	Rotary Incinerator, 1 TPH Capacity Under Execution



DETAILS OF TSDF SITE COMPLETED AND UNDER EXECUTION

Sr No	Name	Scope of Work	Description
4	TSDF, GIDC, Goa	Basic Design, Detailed Engineering, Project Management Service, Commissioning	Secured Land Fill, Pre Processing, Incineration, Stabilization (Under execution)
5	TSDF, MIDC, Ranjangaon, Pune	Detailed Project Report	Rotary Incinerator (2 Ton/hr)
6	BMW, Atkargaon, Mumbai	Detailed Project Report	BMW Site planning with Autoclave, Rotary Incinerator, ETP.



Projects Summary

Hazardous Waste Management Facility

Client: SMSIL, Nagpur

ENPRO Scope: Design, Engineering and Project

Management of BOP and Detailed

engineering of Plasma System

SLF /Solidification Capacity: 60000 Tons/Annum

Plasma Plant Capacity: 3 Tons/hr, 9 Million Kcal/hr

Power Generation: 3 MW

Project Location: 1. MIDC, Ranjangaon, Pune

2. MIDC, Butibori, Nagpur

Status: Pune Plant Commissioned

Project Cost 800 M INR







MAJOR PROJECTS Haz Waste and Air Pollution Control System



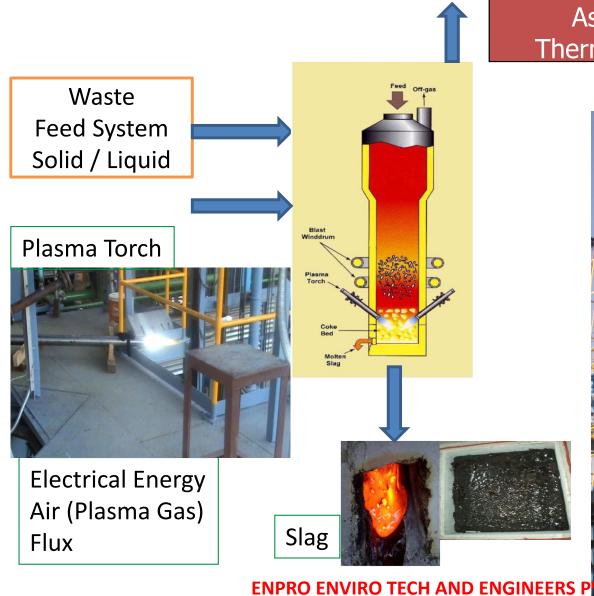








APPLICATION OF PLASMA TECHNOLOGY PLASMA PROCESS OVERVIEW



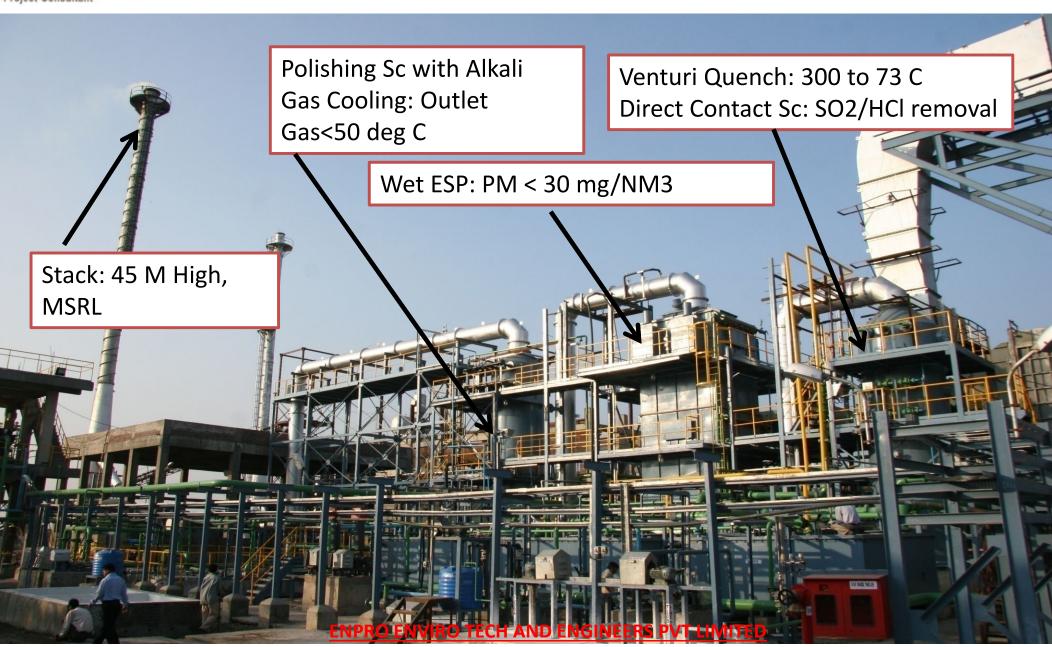
Syn gas
As Fuel to
Thermal Oxidizer

Plasma Reactor PGVR AT MEPL



APPLICATION OF PLASMA TECHNOLOGY

Gas Cleaning System: At SMSIL





Project Summary

Plasma Gasification Based Solid Waste Treatment Plant

ENPRO Scope: Development, Design, Engineering and

Manufacturing

Technology: Plasma Pyrolysis

Capacity: 60 kg/hr

Client: PEAT International, USA.

No of Such Units: Unit 1: Demonstrated In India now at Taiwan

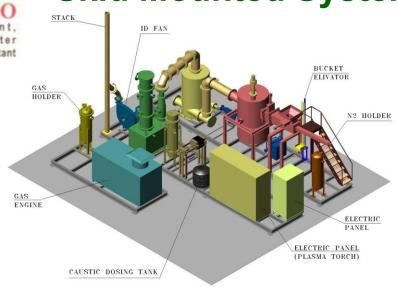
Unit 2: Under operation at USA

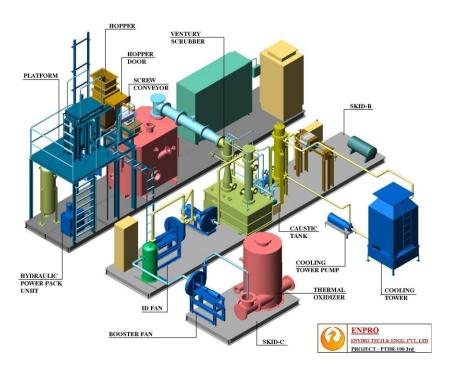
Unit 3: Under commissioning at China

Project Cost 30 M INR All together



MAJOR PROJECTSSkid Mounted Systems











Sludge Drying Project

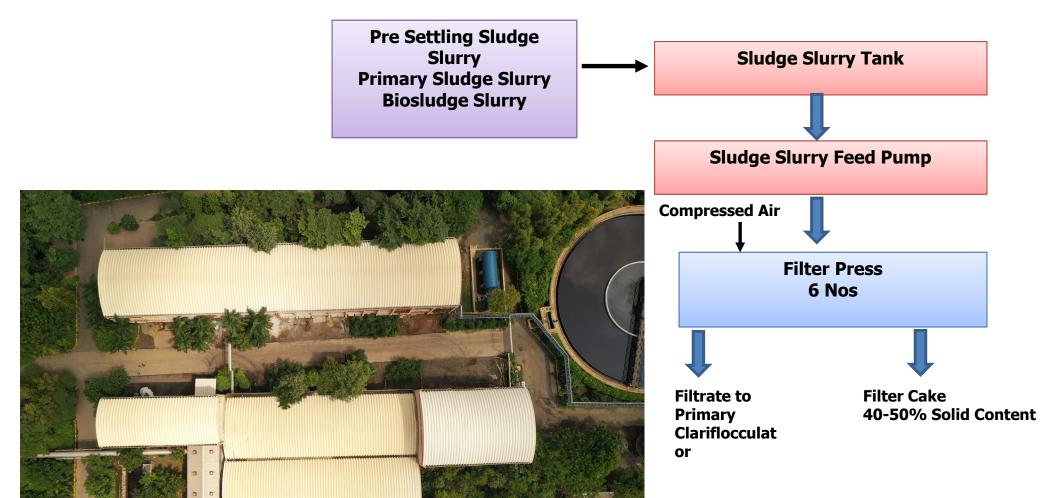


SLUDGE DRYING PROJECTS

Sr	No	Name	Scope of Work	Description
1		Pandesara Infrastructure Limited	Concept Development, Tender Document, Basic engineering, Project Management, Commissioning and Operation and Maintenance	30 TPD Solar Sludge Drying 20 TPD Thermal Sludge Drying from waste heat recovery
2		Sachin Infra Environment Limited	Concept Development, Tender Document, Basic engineering, Project Management, Commissioning	20 TPD Solar Sludge Drying 20 TPD Thermal Sludge Drying from waste heat recovery
3		Nature Tech for Narol CETP	Design, Engineering and Turnkey Supply of Waste Heat Recovery system for Mesh Belt Dryer	30 TPD Sludge Drying

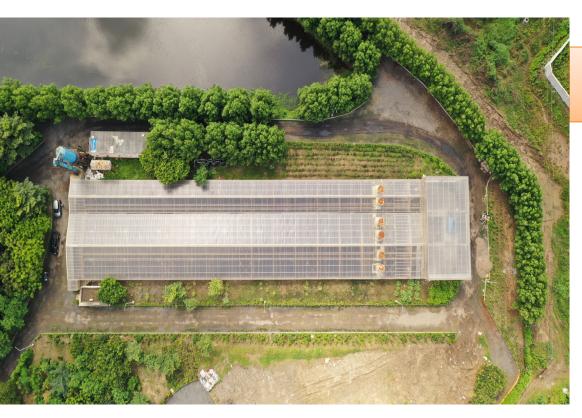


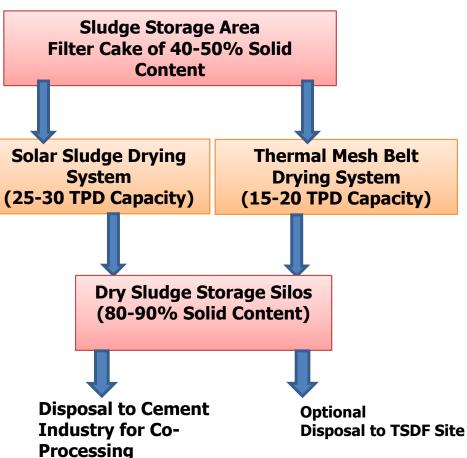
PANDESARA INFRASTRUCTURE LIMITED COMMON EFFLUENT TREATMENT PLANT SLUDGE DEWATERING AND DRYING PROCESS





PANDESARA INFRASTRUCTURE LIMITED COMMON EFFLUENT TREATMENT PLANT SLUDGE DEWATERING AND DRYING PROCESS







Chemical Plant Pharmaceutical Industry



DETAILS OF PROJECTS COMPLETED: CHEMICAL INDUSTRY

Sr No	Name	Scope of Work	Description
1	Ami Organic Pvt Ltd	Basic Design, Detailed Engineering, Project Management Service, Commissioning	API Plant Plot Area: 10000 M2 Project Cost: Rs 110 Cr
2	Aarti Industries Ltd (Sez Dahej)	Basic Design, Detailed Engineering, Project Management Service, Commissioning	Liquid SO2 Plant Project Cost: Rs 35 Cr
3	Transworld Furtichem	Basic Design, Detailed Engineering, Project Management Service, Commissioning	Sulfuric Acid, Oluem, CSA, Liquid SO3 Plant Project Cost: Rs 70 Cr

Pharmaceutical Intermediate

Client: Ami Organic Ltd, GIDC, Sachin, Surat

Scope: Basic and Detailed Engineering

Planning of Chemical Industry Consisting of

Reaction Zone, Material Charging Area,

Filtration Area, Dryers, HVAC System,

Utility (Cooling Tower, Chiller, Vacuum Pumps,

Air Compressors), Scrubbers, Solvent Storage,

PESO Solvent Storages, Boiler, Thermopac,

HT/LT Panel, Plant Lighting, DGSet, Piping,

Valves, Electrical Cables and Instrumentation











Pharmaceutical Intermediate

Client: Ami Organic Ltd, GIDC, Sachin, Surat

Scope: Turnkey Execution: ETP: ZLD Based: 100 KL/Day

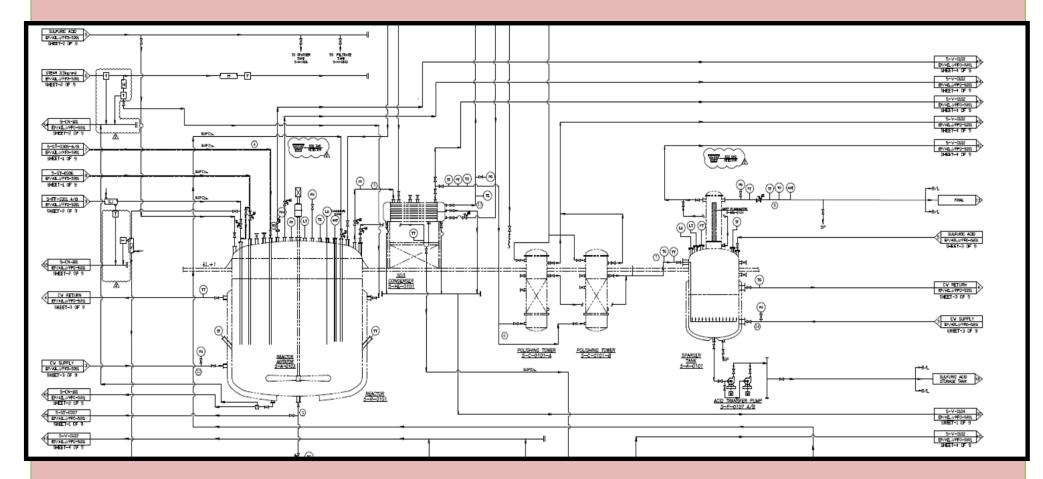


Chemical Industry

Client: Aarti Industries Limited

Scope: Liquid SO2 Plant, 1 TPH, Continuous Plant

Process Know How, Design, Engineering, Supply of Critical Industries

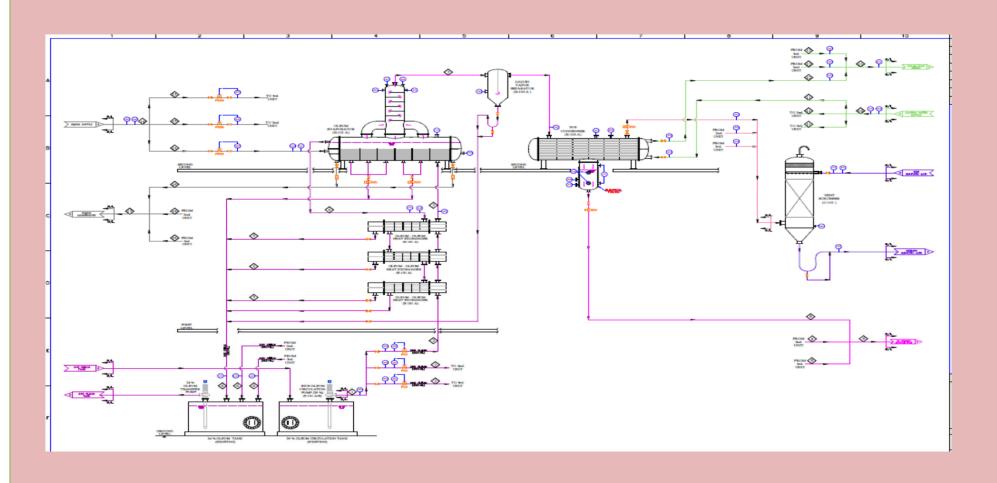


Chemical Industry

Client: Aarti Industries Limited

Scope: Liquid SO3 Plant

Process Know How, Basic Engineering

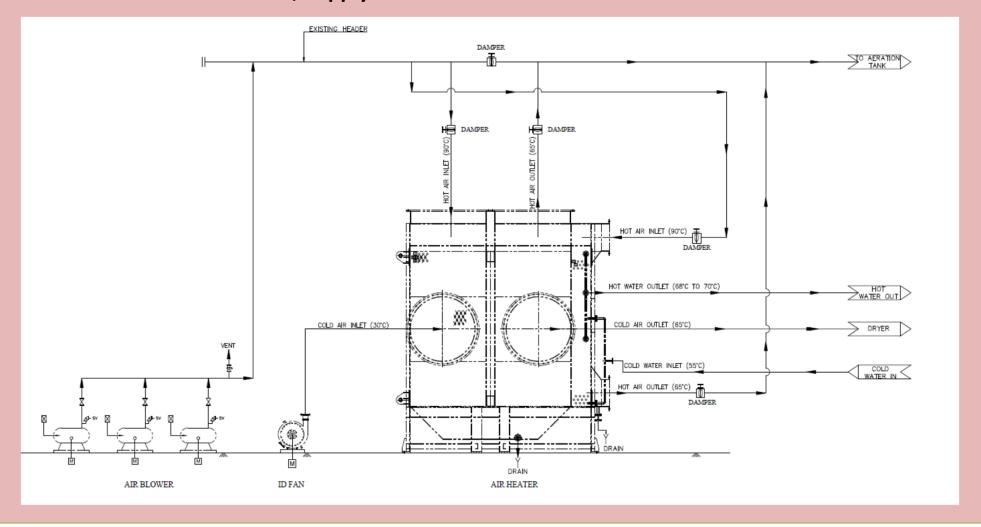


Utility

Client: Naturetech

Scope: Waste Heat Recovery System for Hot Air Generation for CETP Sludge drying

Process Know How, Supply and Execution





ENVIRONMENT TESTING LABORATORY CALIBRATION LABORATORY

(NABL ACCREDITED)

Laboratory: Water and Waste water Testing Section









Laboratory: Instrumentation









Laboratory: Microbiology section















THANK YOU

ENPRO ENVIRO TECH AND ENGINEERS PVT LIMITED