



CONSULTANCY • DESIGNING • INNOVATION

INTRODUCTION

DenEB offers Consultancy, Designing and Project Management Services to Oil, Gas, Cryogenic and Non-Cryogenic Industries worldwide. We partner with our clients to ensure they achieve optimum performance of their valuable assets by providing expertise in solutions and services

Vision

To be a leading partner that provides safe and innovative solutions, which are valued and respected by all

Mission

To provide world-class solutions to our clients through well-defined systems, processes and strategic initiatives

Services

- Consultancy in Liquid Fuels, Petroleum Gas (LPG), Liquefied / Natural Gas, Cryogenic and Non-Cryogenic
- Feasibility Studies for Oil & Gas Infrastructure Facilities
- Turnkey Projects – Design, Supply, Erection, Installation and Commissioning
- Design Engineering for Pipelines, Storage, Terminals, Handling Systems and Industrial Applications
- Safety Audits & Risks Assessments / Safety Trainings
- HSE Management Systems / HAZOP and HEMP Studies
- Supply of LPG Equipment for LPG Terminals, Bottling Plants, Bulk LPG Installations, Auto LPG Dispensing Stations (ALDS) & other LPG Facilities
- Supply of Liquefied / Natural Gas Equipments for LNG Terminals, LNG Satellite Installations, LNG Liquefiers, Synthetic Natural Gas (SNG Plants), Natural Gas Infrastructure Facilities, Industrial, LCNG and CNG Refueling Stations and other Associated Facilities
- Supply of Cryogenic and Non-Cryogenic Equipments for Air Separation Plants, Cryogenic Storage Facility, Transportation, Industrial Gas Cylinder Filling Plant – Oxygen, Nitrogen, Hydrogen, DA and other Associated Facilities
- Supply of Specialty Gases – CO₂, H₂, CF₄ (R14), C₂F₆ (R116), C₃F₈ (R218), C₄F₈ (R318), SF₆, NO, CH₃F, GeH₄, H₂Se.CO, NH₃, Kr
- Supply of Remote Monitoring Solutions for all Liquid Fuels (Furnace Oil, LSHS, LDO, HSD, SKO, LPG) and Cryogenic Storage (Liquid Oxygen, Liquid Nitrogen, Liquid Argon, Liquid CO₂ including Cryo Cylinders)
- Value Added Service - Feasibility / HEMP / HAZOP Studies, Process Optimizatiom and Risk Managment

CAPABILITY SEGMENTS



LIQUEFIED PETROLEUM GAS (LPG)



LIQUEFIED / NATURAL GAS



CRYOGENIC



NON CRYOGENIC

HSE (HEALTH, SAFETY & ENVIRONMENT)

We work to ensure that our client's facilities are well designed, safely operated, properly inspected and maintained for running a sustainable business. We provide HSE Trainings through workshops and employee engagement programmes that envelop :

- Modern Safety Management & Risk Assessment
- Defensive Driving
- Comprehensive Project & Construction Safety
- Behavioural Based Safety
- World Class Safety
- Safety Ownership / Safety auditing, NM / PI reporting, Safety Culture
- Shop floor Safety, Manual Handling and Chemicals Safety
- Risk Assessment / Safety Audit
- Managing Changing HSE Culture
- Developing HSE Case
- Oil Spill Training (Environmental Control)
- Emergency preparedness & Planning for GMs and Directors
- Accident Investigation & Analysis
- Disaster Management
- Work Permit, Emergency Planning & Safety Auditing
- HSE Training on Noise, Basics of Defensive Driving & Auditing
- HSE Audit Services
- Safety Manuals & Modules
- Development of HSE Policies & HSE Management Systems

ENGINEERING SERVICES

- Technology Evaluation and Feasibility Study
- Preparation of Pre-FEED / FEED (Front-End Engineering and Design)
- Detail Engineering
- Plant & Piping Engineering
- Machinery & Equipment Engineering
- Civil & Structural Engineering
- Electrical Engineering
- Control & Instrumentation Engineering
- Preparation of Specifications and Drawings
- Preparation of Material Take Off
- Procurement Assistance
- Project Management
- Project Planning and Monitoring
- Pre-commissioning and Commissioning Assistance





LIQUEFIED PETROLEUM GAS

Best Practice in LPG Infrastructure Projects & Services

We partner with our clients to identify, define and understand key issues. We offer recommendations, strategies and solutions, which are specific to our clients' needs. We provide end-to-end solutions for LPG Infrastructure Projects

Services

- Feasibility Studies for LPG Infrastructure Projects
- Bulk LPG / VOT & LOT Systems on BOO Basis
- AMCs
- Process Optimization
- Inter-fuel Conversions
- VOT & LOT Systems
- Operations & Safety Trainings

We also supply all other associated equipment and fittings for LPG Infrastructure facilities

Credentials

- Techno Commercial Feasibility Study for Refrigerated LPG Terminal for Mozambique
- FEED for 50,000 M3 - 3 Nos. LPG Refrigerated Terminal
- Design, Engineering, Fabrication & Supply of 28 & 69 MMBTU SNG System - Royal Gas, Abu Dhabi and 90 MMBTU x 2 Nos. for Sohar Steel - Muscat, Oman. Also supplied an SNG Blender to Mahindra & Mahindra Ltd.
- Design, Engineering, Fabrication & Supply of LPG - Tanks, Pumps, Vaporizers, PRS Skids and other related equipment for LPG Storage Farm to Indian and overseas customers in Srilanka, Middle East and Africa.



LIQUEFIED/ NATURAL GAS

Developing new technical solutions that are scalable & sustainable

Our track record speaks of our ability to deliver Liquefied/ Natural Gas projects through our in-depth technical expertise

Services

- Feasibility Studies for LNG / LCNG Infrastructure Facilities
- Bulk LNG Systems on BOO Basis
- AMCs for LNG / LCNG / CNG
- Safety & Operations Training

We also supply all other associated equipment / fittings for Liquefied / Natural Gas infrastructure projects

Credentials

- Approved Contractor of Mahanagar Gas Ltd. (India's leading Natural Gas Distribution Company) to carryout NG downstream piping services to Industries.
- Design, Engineering, Supply, Fabrication, Erection & Commissioning of Piped Natural Gas projects for various industries in India.
- Techno-Commercial Feasibility Study of LNG Satellite Installation.
- Techno-Commercial Feasibility Study of LCNG Refueling Station.
- Supply of Pressure Regulating & Metering Skids in India and Middle East.
- Supply of LNG Vaporizers in India and overseas
- Technical Advisory Services to CRISIL for CGD (City Gas Distribution) networks and Market Assessment for Bangalore and Ernakulam.
- Design, Engineering and HAZOP for Natural Gas Reticulation System for (62 x 3) storey - One Avighna Park (A Residential complex).

Products

- Ambient / Fan Draft / Hot Water Bath / Steam Heater Bath / Electric Heated Water Bath Vaporizers
- Vacuum Insulated Cryogenic Storage & Transport Tank
- LNG Liquefiers
- CNG Cascade System (Virtual Piping)



Total Solutions in Storage and Regasification

We offer Design and Consultancy for Storage and Regasification including Cylinder Filling Facilities

Services

- Consultancy in erection and commissioning of Air Separation Plants
- Project Management and execution for construction & commissioning of Air Separation Plants and allied facilities
- Assistance in evaluation / selection of contractors for various jobs in Air Separation Plants and allied facilities
- Modification / Revamping of old plants
- Facilitate supply of materials and fabrication of equipment for Air Separation Plants
- Selection of vendors for supply of machineries / accessories like compressors, turbines, pumps etc
- Operations & Safety Trainings

Products

- Air Separation Plants
- Vacuum Jacketed Pipes
- Vacuum Insulated Storage & Transport Tanks
- Ambient / Fan Draft / Hot water Bath / Electric / Steam Vaporizers
- Vaporizer Changeover System
- Electric Trim Heater
- Cryogenic Valves
- Mobile Filling System
- Cryogenic Pumps
- Fill Racks & Carts
- Gas Compressors
- Medical & Industrial Filling System
- Cryo Cylinders
- Traversing Manifolds
- Mobile Filling System
- Wall Mount Manifolds
- Purifiers & Analytics

Credentials

- EPC including Supply of 4100 Gaseous Nitrogen (ASU) to Gold Plus Glass Industry Ltd.
- Design, Engineering & Supply of N₂ Generation Skid (Cryogenic) for ADGAS, UAE.
- Design, Engineering & Supply of LIN Storage & Regassification System for Oman Refinery - Pet Coke - A Project of L&T.
- Design, Engineering & Supply of LAR Storage & Regassification System including 70 M3 High Pressure Buffer Vessel for Shadeed Iron & Steel, Oman.
- Supply of Hydrogen Cascades to Air Liquide, India
- Supervision for erection and commissioning of ASU including inspection, audit and technical solutions
- Design, Engineering, Supply & Commissioning for LIN/LAR/LOX/LCO₂ Storage and Regassification Systems for Indian and overseas clients.



Quality-driven products & services

Our diverse range of gas plants, purifiers and dryers are designed to fit specific client needs

Services

- Annual Maintenance Contracts
- Safety & Operations Trainings
- Process Optimization
- Plant Audits

Products

- PSA Nitrogen Plants
- PSA Oxygen Plants
- Compressed Air Dryers
- Refrigerated Air Dryers
- CarbonDioxide / other Gas Dryers
- Hydrogen Purifiers
- Gas Analytical Instruments
- Low Pressure Air Dryers
- Nitrogen Purifiers
- Gas Sampling Systems
- Hydrogen Plants based on Ammonia Dissociation
- Hydrogen Plants based on Water Electrolysis
- Carbon Dioxide Plants
- Pressure Vessels

Credentials

- Supply of Nitrogen Plants (Upto to 300 Nm³/hr) to Hetero Drugs Ltd., Sundaram Fastners Ltd., Netmatrix Ltd., Pricol Ltd.
- Supply of Hydrogen Plants (Upto 100 Nm³/hr) to Balaji Amines Ltd., Carborundum Universal Ltd. & Sundaram Fastners Ltd.
- Supply of Medical Oxygen Plant to a Public Hospital
- Supply of 500 Nm³/hr x 3 Nos. PSA Nitrogen Plants to Aurobindo, India
- PSA Nitrogen and Ammonia based Hydrogen plants supplied on BOO Basis.
- Supply of Nitrogen And Air Mixing Blender to SNF India Pvt. Ltd., Vizag, India
- Supply of Nitrogen Membrane Plant to BOSCH, Bangalore, India
- Inspection & Audit of 100 TPD VPSA Plant in Malaysia on behalf of Vedanta Group
- Installation of Bulk Ammonia Storage & Handling System (10m³ x 2) to Gold Plus Glass Industry Ltd., Roorkee

EXPERTISE AND EXPERIENCE



45 KL LAR Storage + 70 M3 Argon Buffer - Jindal Shadeed - Sohar - Oman



7.5 m3 - Nitrogen Generating Skid - ADGAS - Abu Dhabi, UAE



110 m3 x 4 - LPG Storage - Sohar Steel - Sohar - Oman



90 MMBTU / hr x 2 - SNG System - Sohar Steel - Sohar - Oman



2 x 10m3 - Ammonia Storage & Regassification System - Gold Plus Glass Industry, Roorkee, India



90 Nm3/hr Hydrogen Generation Plant Gold Plus Glass Industry, Roorkee, India

CLIENTS & PARTNERS

CLIENTS



PARTNERS



GROUP COMPANIES





DenEB Energía Pvt. Ltd.
DenEB Solutions

OFFICES

MUMBAI

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VADODARA

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VADODARA

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