Welcome to the world of Cryogenics!!!

“CRYOGAS INDUSTRIES” was founded in the year 1996 in India. The Group has diverse activities in the fields of Cryogenic Equipment and handling of Cryogenic Liquids & Gases.

Different Flagship Companies in the Group Carry out Design, Manufacture, Supply and Turnkey Installations of Cryogenic Equipment to handle Cryogenic Liquids & Gases. The solutions apply to the length and width of several industries.
Cryogas Industries

Our Timelines
1996  Cryolin India
2004  Ultra Pure Gases (I) Private Limited
2008  Cryonorm-IWI Cryogenics Private Limited
2009  Cryogas Equipment Private Limited - SEZ Unit
2012  LNG Express India Private Limited
2014  Cryogas Equipment Private Limited - DTA Unit
2016  Cryogas Equipment Private Limited - DTA Unit - Central Gas Systems Division

Future
Cryogas is investing in several futuristic projects like super conductivity and its applications, Particle Science, Fuel Conversion Projects & LNG applications at customers’ sites.

Aims and Ambitions
Cryogas Group aims at offering complete spectrum of products and services to its customers around the world. The Group has ambitious plans of expansion yet focused to core competence.

Brand new fully equipped Design to Manufacturing facility is now operational to produce Cryogenic Tanks & Tankers, Micro Bulk, Portable Cryogenic Containers, High Pressure Gas Tonners.
CRYOGAS EQUIPMENT PRIVATE LIMITED, an ISO 9001 company established in the Special Economic Zone in 2009-10, in the most advanced Cryogenic Engineering city of Vadodara, caters to the requirements of customers around the globe with world class cryogenic turnkey solutions and installations, vacuum insulated cryogenic tanks & tankers, vacuum insulated piping, skidded mobile vaporizers and vaporizers with combined pumping systems, LNG Turnkey Installation & LNG Supply Chain Management & LNG Applications.

Products

- Cryogenic Storage & Transport Tanks, ISO TANKS
- Ambient Atmospheric Vaporizers - LP, HP, HF & Mobile
- Turnkey Cryogenic Back-Up Installations, Gas Cylinder Filling Stations
- Multi Layer Super Insulated Vacuum Pipe Line and Liquid Filling Stations
- Liquid Gas Pack (LGP) - Portable Cryogenic Micro-bulk Cylinders
- Heated & Powered Vaporizers (Cryonorm BV Design, a 50:50 JV Company)
- LNG Fuel Tanks for Automobile Vehicles
- Micro Bulk Solutions for IG & LNG Value Chain for Last Mile Connectivity.
ATMOSPHERIC VAPORIZERS

MOBILE VAPORIZERS FOR PURGING APPLICATION

COMBINED PUMP & VAPORIZER SKID FOR HIGH PRESSURE PURGING & TESTING

STEAM HEATED WATER BATH VAPORIZER

ISO CONTAINERS FOR LOX, LIN, LAR, LNG

CRYOGENIC TURNKEY INSTALLATION LOX, LIN, LAR, LNG, LCO2, EPC
Cryogas Equipment Private Limited - Domestic Unit

CRYOGAS EQUIPMENT PRIVATE LIMITED, also offers world class Vacuum Insulated Cryogenic Storage & Transport Tanks designed & built to all major International Design Codes, like EN, PED, ASME (U-Stamped), ISO, CGA

Products (2 Bar to 37 Bar)

- Vertical & Horizontal Tanks: VCC Range from 1 KL to 250 KL
- Vertical Thermosiphon Tanks: VTH Range from 6 KL to 100 KL
- Fix Chassis Transport Tankers: CTR Range from 3 KL to 18 KL
- Running Gear Mounted Transport Trailers:
  STR Range from 18 KL to 55 KL (3 to 7 Bar)
- Portable Micro-bulk Tanks 50 - 2000 Lits. (17/24/34 Bar)
- Fan Forced vaporizers

‘U’ Stamp Audit

SUPER INSULATED STORAGE TANKS
'3D' MODELING
FULLY AUTOMATED CAMERA MONITORED SUBMERGED ARC WELDING SYSTEM
COLD STRETCH OPERATION UNDER PROGRESS FOR THE INNER VESSEL
HELIUM LEAK TESTING IN OPERATION
SHOT BLASTING BOOTH
PAINT BOOTH FOR FINAL PAINTING
Cryogas Equipment Private Limited - Domestic Unit

Super Insulated Vacuum Pipe Line (SIVL)

“CRYOGAS EQUIPMENT PVT. LTD.” as manufacturer of SUPER INSULATED VACUUM LINES of international quality, caters to various large and small scale organizations since 2007. We design and manufacture “Made to Measure” Vacuum Insulated Piping to suit any application and in standard sizes from ½” to 8” internal pipe size and available in either bayonet or field weld joints for Spices Grinding, Food Freezing, Pharma Application, Metal Processing Industries and also for Space Research, R&D Activities.
MULTILAYER INSULATION LNG TANKER WINDING IN PROCESS

INNER VESSEL MULTILAYER WINDING WITH ALUMINIUM FOIL & IMPORTED GLASS PAPER

LIQUID GAS PACK (PORTABLE CRYOGENIC CONTAINER)

LNG RE-GAS INSTALLATION TURNKEY PROJECT - SALE

LNG RE-GAS INSTALLATION EPC PROJECT - BOOM
Cryogas Equipment Private Limited - Central Gas Systems Division

**CRYOGAS** provides “State of Art” Central Gas Systems, for various applications from - Design to EPC, till all validation stages.

**Facility Engineering - Facility Management - Automation & Engineering.**

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<th>Consulting</th>
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- Gas Cabinets, BSGS, VMB, VMP & Supply Panel.
- Blender, Gas Bubblers, Auto Cross Over Systems
- Chemical Delivery Systems
- PLC & SCADA Systems
- Supply of CORT Gases.
- TGM & Turnkey Solutions
- Safety Audits.
- Gas Storage, Purification & Distribution Systems
GAS CABINET & BSGS
CLASS 100 CLEAN ROOM FOR PANEL FABRICATION
AUTOMATION SYSTEM
WALL MANIFOLD BOX & PANELS
ULTRA HIGH PURE REGULATORS & VALVES
GAS SUPPLY PANELS
Markets Served:

Our combined engineering and manufacturing know-how sets us apart from traditional design or contract manufacturing firms. We extend this experience into demanding markets around the globe.

Our expertise includes development, prototyping, design-for-manufacture, systems integration, supply chain management, fabrication, lead-time and cost reduction, product extension, and end-of-life planning.

Your challenges + CollabraTech Solutions = Consistent products that exceed expectations

We help with:

- Technology Development
- Product Design
- Lean Manufacturing Processes
- High Quality, Defect-Free Products
- Time to Market

By Providing Integrated Operation:

- Engineering
- Materials Management
- Quality Assurance
- Production
- Project Management

Using Available Tools:

- Supply Chain Management
- All Major CAD Platforms
- Good Manufacturing Practices
- ISO Certified Quality Systems
- Enterprise Resource Planning Systems

Deep roots in our core industries give us the strength and reach to be successful for your Product Development & Manufacture.
IWI Cryogenic Vaporization Systems (I) Pvt. Ltd.

"IWI CRYOGENIC VAPORIZATION SYSTEMS (INDIA) PVT. LTD." was founded in 1998 to provide world class solution in Cryogenic and gases industry in Global market. IWI, is a specialized cryogenic equipment manufacturing company catering to cryogenic and gas industries with wide range of products.

Products

- Ambient low and High pressure vaporizers
- Complete Cylinder Filling Stations (CFS) [Manual, Semi Auto & Fully Automated]

Apart from this, the company also undertake complete turnkey projects as per the clients’ specific requirements. Logistic Division of IWI offers transportation of Cryo liquids within India and also export to near by countries.

Purging Activities

IWI Cryogenic is also taking up Turnkey Pipeline Purging Projects.

Highlights

- Supply of LIN, LAR, LOX
- Commissioning
- Decommissioning of System
- Operation System with Temperature Control and Alarm System
- Adherence to all Safety Norms
- Installation of Required Equipment on Rental Basis.

Achievements

- Reliability of System
- Speed of Operation with Safety
- Piston Effect in the Purging Completion
- In / Out Time Projection Completion
ON SITE PURGING AT LNG TERMINAL

GROUND MOUNTED CYLINDER FILLING MANIFOLD & CONTROL PANEL

TURNKEY VAPORIZATION INSTALLATION

PIGGING PROJECT & PIG LAUNCHING STATION

SKID BASED VAPORIZATION SYSTEMS

CRYOGENIC TURNKEY INSTALLATION, LP & HP LOX TURNKEY INSTALLATION

www.iwicryo.com

We are mainly focused in Speciality Gases, Calibration Gases, Gas Mixtures to substitute imports in the industry segment of Refineries, Petrochemicals, Chemicals laser, Solar Fab, R&D and Laboratories applications. Our Calibration Gases are renowned for Cement, Steel, Power, lighting industries, medical and environmental applications.

Products

- Calibration Gases
- Speciality Gases
- Semiconductor & Electronic Gases
- Sulphur Hexafluoride
- Hydrogen Skid & High Pure Hydrogen
- Liquid Blends
- Laser Mixtures
- Medical Mixtures
- CORT Gases & Total Gas Supply Management
HYDROGEN BANKS WITH DIFFERENT CAPACITIES

MULTIPLE DELIVERY OPTIONS MADE EASY AND COMFORTABLE WITH PALLETS

ANALYTICAL LABORATORY, CG & HORIBA ANALYZERS

CANISTER FILLING STATION

AUTO BLENDING SYSTEM FOR ARGON & ARGON MIX

‘RECIPE’ BASED FULLY AUTOMATED TOUCH SCREEN OPERATED CALIBRATION GAS BLAND STATION
Cryonorm-IWI Cryogenics Private Limited - JVC

CRYONORM-IWI CRYOGENICS PVT.LTD., is a 50:50 Joint Venture in India between Cryonorm BV, Holland and IWI Cryogenic Vaporization Systems (India) Pvt. Ltd., with a combined experience of more than 40 years. Cryonorm IWI Cryogenics Pvt.Ltd. offers Cryonorm BV, Holland designed products manufactured from India.

- **Products**
  - All Types of Heated and Powered Vaporizers …
    - Hot Water Heated Vaporizers
    - Steam Water Heated Vaporizers
    - Electrically Heated Vaporizers
    - Gas / Diesel Fired Vaporizers
    - Sea Water Heated Open Rack Vaporizers
    - Trim Heater Vaporizers
    - Fan Forced Vaporizers
  - LNG Supply Chain Management Systems
    - LNG Satellite Station
    - LCNG Fueling Station
    - Small Scale Liquefaction Plant (20 to 500 MPTD)
Cryonorm-IWI Cryogenics Private Limited

Cryogas offers in partnership with Cryonorm complete EPC Solutions for …

- LNG Bunkering EPC Turnkey Projects
- Fuel Conversion on different size of Inland water-way vessels & sea going vessels
- LNG Tanker Loading Terminals

MODULAR SKID DESIGNS

LNG Pump Skid

4 Bay Simultaneous Tanker Loading Terminal at Port

First Bunkering
200 MT LIQUEFACTION PLANT AS EPC PROJECT

DUAL LNG TRUCKLOADING BAY AT 200 TPD LNG PLANT

40 M³ LNG FUEL TANK FOR INLAND CHEMICAL CARRIER

LNG STORAGE / RE-GAS FOR TWO INLAND PETROL TANKERS

LNG STORAGE & DISPENSING FOR TRUCKS & SHIPS

25,000 NM³/HR. @ 78 BARG PIPELINE INJECTION. 2 BANKS OF 10 PCS PARALLEL WORKING AMBIENT VAPORIZER
LNG Express India Private Limited

- LNG Express supplies Natural Gas to off - Pipe Line Consumers.
- LNG Express brings Natural gas in different packages at the door step of customers.
- LNG Express has PNGRB - NOC for 8 Mega district to supply sale Natural Gas using LNG Route.

Three Types of LNG - CNG Supply Models.

- LNG Storage & Re-Gasification System installed at sites
- LNG / LCNG Retail Outlet for Automobile Fueling
- LNG Based Hub-n-Spoke LNG Stations

Located strategically to cater to number of Industrial & Commercial Consumers with the help of Integrated Supply Chain Network.
LNG Supply Chain Management

Public Outlet
LEMS

Private Dispensing
LEPD

LNG / LCNG RETAIL OUTLET

Loading at LNG Terminal

Unloading at LNG Express Station

Quick Connect at Consumer Site
Peace of Mind Delivered at Door Step

LNG / LCNG Retail Outlet

LEDS / LESS

CNG Filling at LNG Express Station

Let's Green
Strategic Partnership between Sumitomo - A Specialist Company in Cryocoolers & Compressor and Cryogas, offer portable liquefaction plants. Also available a range of SHI Products with service & Spare parts facility.

### Products
- 4K CCR
- 10K CCR
- Portable Helium Liquefier
- Portable Nitrogen Liquefier
- Gas Cooling Systems
- Ultra High Vacuum Systems
- Cryogen Free Superconducting Systems

### CRYOCOOLERS
- SRDK Series Cryocoolers
- SRP Pules Tube
- GM - JT Series

### COMPRESSOR
- Selection from water-cooled & air-cooled
- Selection of air-cooled compressor between indoor-use & outdoor-use

4.2 K CLOSED CYCLE REFRIGERATOR - ITER
HELIUM (HE) LIQUEIFIER SYSTEMS - (15 LPD)
HEROSE - GERMANY (GMBH)

REPRESENTATIVE & STOCKIST FOR HEROSE VALVES IN INDIA

- Safety Relief Valve
- Thermal Relief Valve
- Divertor Valve
- Change Over Valve
- Globe Valve & Check Valve
- Stainer & Top Entry Valve
- Actuated Globe Valve (On/Off)
- Actuated Globe Valve (Control)
- Fill cluster with Check Function
- Ball Valve & Bursting Disc
- Drain Valve
- Three Way Valve

Regulation System

Double Stage Gas Regulator

High Pressure Gas Regulator

Phase Separator

Nitrogen Purging Kit
For Transformers

High Pressure Hose
Ultra Pure Gases’s Customers

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