



CRYOGENICS

For New-Age Industrial Excellence



Cryovessels

About IndianOil

IndianOil is the market leader with nearly four decades of experience in Cryogenic and Vacuum engineering. Through specialised and custom-built product lines, we serve various industries such as refining, chemicals, aviation, animal husbandry, gas, livestock, LNG, etc.

An advanced manufacturing unit, located at Nashik, spread over an area of 36,000 sq. metres, is equipped with specialised sophisticated machines to manufacture large & heavy pressure vessels.

Our Brand Promise: *Expertise Meets Innovation*

To service the varied and specialised needs of our customers, our Cryogenics business team is equipped with a strong engineering background and sophisticated problem-solving skills, acquired over years of experience and training.

IndianOil's BG (Cryo) Nashik Plant has the unique distinction of being the only facility that's certified by PESO for manufacturing under SMPV rules as well as Petroleum rules.

Design Capabilities



Expertise



Software –
Tools & Skills



Manufacturing Capabilities



Major Customers:

State Animal
Husbandry Departments



Livestock
Development Boards



Milk Unions



Gas Industry



LNG Logistics and
Regassification Industry



We offer specialty products for your industry

Cryocan - Liquid Nitrogen Dewars (0.5 to 55 Ltrs.)

- Double-walled non-pressurised Aluminum container for storing liquid Nitrogen. Cryocans are mainly used to preserve bull semen under extremely cold temperature i.e. -196°C in liquid Nitrogen. The bull semen thus preserved is used for artificial insemination in the field to get a better breed of cows

for higher milk yield.

- Cryocans are also used for various other applications such as embryos & stem cells preservation by IVF clinics, dermatology and shrink fitting, etc.

- It is our signature product and holds the major market share in the country. Cryocans are also exported to Europe, Singapore, Sri Lanka, Bangladesh, etc. We have an installed capacity to produce around 32,000 Cryocans annually.



Cryovessels - Pressurised large capacity cryogenic containers

- Cryovessels are double-walled vessels with inner vessel made of stainless steel and outer vessel of carbon steel. These are used for storage and transportation of liquefied gases like liquid Nitrogen (LIN), liquid Oxygen (LOX), liquid Argon (LAr) and liquefied natural gas (LNG).
- Cryovessels are designed and manufactured conforming to various international codes such as ASME, EN, ADM, BS & ISO

Range of Cryogenic Vessels

Cryogenic Storage Vessels

(100 to 150,000 Ltr)

Cryogenic Transport Vessels

(500 to 40,000 Ltr)

under reputed third-party inspection agencies such as LRA, BV, TUV, PDIL, etc. to meet the stringent Indian conditions.

- IndianOil's Business Group (Cryogenics) is the pioneer

in Multi Layered Super Insulation (MLSI) technology. Transport vessels built with cold stretched process and MLSI insulation offers optimized payload carrying capacity.

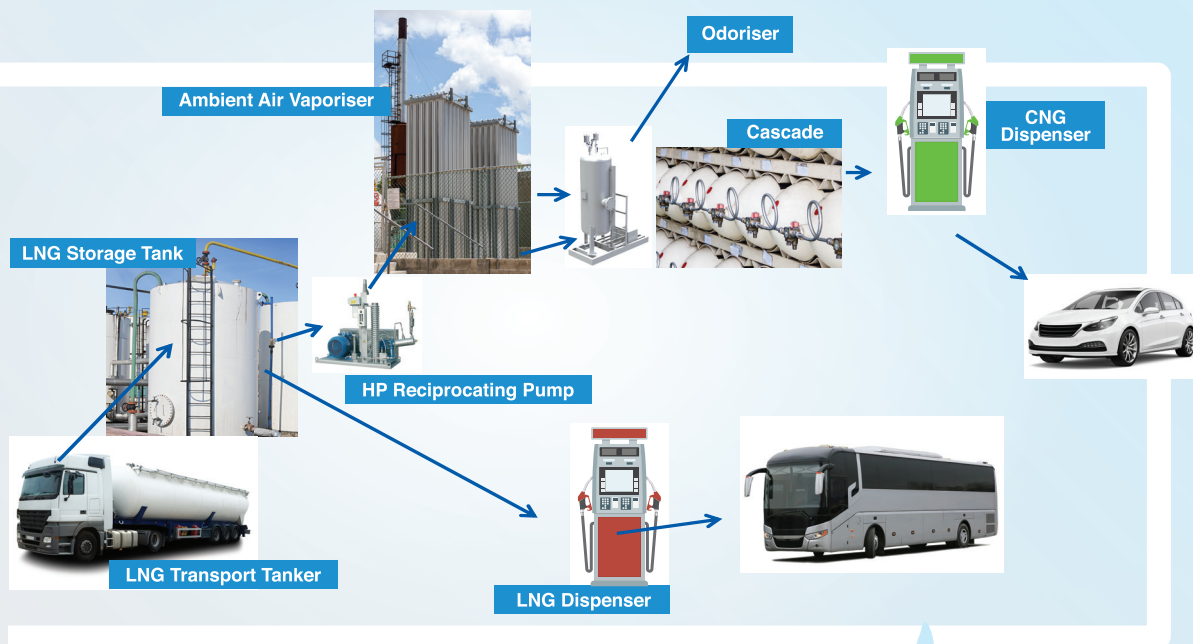
LNG Business

We offer customised cryogenic solutions for storage and transport of Natural Gas. A Liquefied CNG / LNG fuelling facility, a first-of-its-kind in the country, is being set up on turnkey basis at IndianOil's integrated fuel complex at Anayara in Thiruvananthapuram, Kerala.

Major Customers

- Bulk Natural Gas users
- Fuel Stations selling CNG
- Glass and ceramic industry (For LNG storage and regassification systems)





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