

# LIQUID NITROGEN



ABHIJIT ENTERPRISES

Commitment & Honesty Towards Customers



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## ABOUT US

Abhijit Enterprises was founded in 1996 in Phaltan Maharashtra by Mr. Dadasaheb Sayaji Mane, a renowned personality in the sugar industry. We are one of the top suppliers of liquid nitrogen in Maharashtra, Goa, Karnataka and Madhya Pradesh. Our range of products includes Cryogenic gas cylinders, Liquid nitrogen containers and Cryogenic safety equipments. We also offer Shrink fitting and Purging services to our esteemed customers.

Through the years, we have served various industries such as Packaging, Automobile, Mechanical, Pharmaceutical, Food, Animal Husbandry, etc. Customer satisfaction is of paramount importance to us which has helped us to build long-term and strong relationships with our customers.



## LIQUID NITROGEN

Liquid nitrogen (LN<sub>2</sub>), is a liquefied atmospheric gas formed as a result of fractional distillation of liquid air.

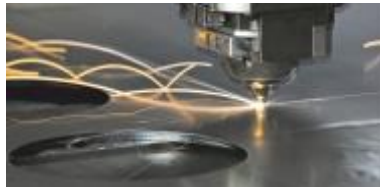
It is key cryogenic agent in cooling chilling and food freezing. Because of its extremely cold temperatures.

Its ability to maintain temperatures far below, makes it extremely useful in a wide range of applications.



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Proud to serve **LN<sup>2</sup>**  
from last **21** years  
in following Segments



Mechanical



Shrink Fitting  
Purging  
Laser Cutting



Animal Husbandry



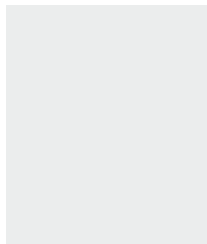
Preserving  
Bull Semen



Medical



preserving stem cell  
cord blood  
vaccinations  
skin care  
laboratories



Food Industry



Ice Cream making  
Blast Freezing



Liquid nitrogen supplied  
for supporting  
chemical reaction processes.



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### Supplying



200 Ton LN2  
Per month

### Serving



More than 5000  
Veterinary Doctors.

### Connecting



More than  
3000 Villages.

### Covering



11 Major Districts  
of Maharashtra

### Liquid Nitrogen

Liquid nitrogen plays a vital role for storing the frozen semen straws, at a temperature of  $-196^{\circ}\text{C}$  for longer periods Artificial insemination (AI).

### Wide Product Range for Animal Husbandry

I.O.C. make Liquid Nitrogen Containers  
Bull semen of BAIF, NDDB, AMUL  
A.I. Gun  
A.I. Sheath  
Arm Length Gloves  
Forsafe

### Supplying Capacity

500 Ltr.



4

1000 Ltr.



6

3000 Ltr.



3

7000 Ltr.



5

10000 Ltr.



2

16000 Ltr.



3

### Locations

PUNE

PHALTAN

KOLHAPUR



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## CRYOGENIC CHAMBER



CRYOGENIC CHAMBER IS ULTRA LOW TEMPERATURE FREEZER



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## ABOUT CRYOGENIC CHAMBER

### CRYOGENIC CHAMBER IS MAINLY USED FOR



Chilling & Freezing of any Food's Products



Pharmaceutical Industry for Low Temperature Application



Mechanical Shrink Fitting



Bulk Preservation of Semen, Biological Samples & Vaccines

### CRYOGENIC CHAMBER SETTING TEMPERATURE



-1 to -150 °C for Freezing Application



-1 to -196 °C For Mechanical Shrink Fitting

10<sup>TO</sup>  
2000 Ltr.

WE CAN MANUFACTURE CRYOGENIC CHAMBER



Cryogenic Chamber is open loop cycle which is fully base on liquid nitrogen (LN2)



Cryogenic Chamber is double body jacket type vessel, for insulation we are using multilayer super insulation paper plus high vacuum



Cryogenic Chamber operating system is fully PLC+HMI Based controls and SCADA Connectivity.



Cryogenic Chamber is also use for cryogenic treatment of metals for increasing more resistance to wear and hardening.



Cycle time of chamber is maximum 2-4 hours for hardening of any food product and sea food



Liquid nitrogen is inert gas so it does not react with any food item and because of this there is no changing of taste and texture of food.



The ratio of liquid nitrogen consumption for any food and sea food product for hardening is 1 to 1.4 Liter for per KG.



The Cryochamber is fully environment friendly



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**Largest  
Liquid Nitrogen supplier  
chain in Maharashtra, Goa,  
Karnataka & Madhya Pradesh.**



## OUR PRODUCT RANGE

Liquid Nitrogen (Ln2)  
Liquid Nitrogen Containers  
Cryogenic Chamber for Food / Fish / Meat / Metal  
Cryogenic Blast Freezer (0°C To -80°C & 0°C To -196°C)  
Cryogenic Equipment For Metal Shrink Fitting  
Cryogenic Process Equipemnt For Metal  
Cryogenic Treatment Chamber For Metal  
Cryogenic Grinder For Spices  
Liquid Nitrogen / Oxygen / Argon & Laser Cutting Cylinders  
Liquid Oxygen (O2)  
Cryogenic Dura Cylinders & Porta Cryo  
Cryogenic Dewar Flask  
Cryogenic Safety Equipment's  
Tilting Trolley  
Transfer Device Automatic / Manual

**\* We manufacture cryogenic chambers  
as per client requirement.**





## OUR ESTEEMED CLIENT

Maharashtra Livestock Development Corporation, Akola

Madhya Pradesh Kutkuta Vikash Nigam (MP Livestock)

Godrej & Boyce Mfg. Pvt. Ltd. Vikhroli, Mumbai

BITS Pilani, Goa

Voestalpine High Performance Metal India Pvt. Ltd.

Neogen Chemical Pvt. Ltd.

Cummins India Technology Pvt.

TATA Steel - BSL

Kaiga Atomic Power Station, Karnataka

J.K. Trust

Rashtriya Chemical Fertilizers

Lupin Limited

AbGenics Life Sciences Pvt

Piaggio

TATA FIAT

Zuari Agro Chemical

Automotive Research Association of India (ARAI)

HEMRL

DIAT

DRDO

Emcure Pharmaceutical

Genova Bio Pharma Limited

Carraro India Pvt. Ltd.

Cipla Bio Tech Pvt. Limited

Chem Biotech Ltd.

Cloud Nine Care

TATA Hitachi

Hindalco





## CONTACT US

### PHALTAN

📍 CTS No. 6484, Laxmi Nagar, Phaltan, Satara - 415523, Maharashtra, India.

☎ (+91) 9822377053

### PUNE

📍 Gate No. 221, Milkat No.426, Mumbai Bangalore Highway, Opp. Shindewadi Jakat Naka Shindewadi, Pune - 412205, Maharashtra, India.

☎ (+91) 9822377053

### KOLHAPUR

📍 Gat No. 489, Opp. Hind Gears MIDC, Shirol, Tal. Hatkanagale, City Naigaon, Kolhapur - 416112, Maharashtra, India.

☎ (+91) 9822377053

✉ [sales@liquidnitrogen.in](mailto:sales@liquidnitrogen.in)

✉ [accounts@liquidnitrogen.in](mailto:accounts@liquidnitrogen.in)

✉ [abhijitenterprises2100@gmail.com](mailto:abhijitenterprises2100@gmail.com)

🖱 [www.liquidnitrogen.in](http://www.liquidnitrogen.in)