

**ARGON RECOVERY UNIT OF ZUARI INDUSTRIES LIMITED, GOA
FOR SALE**

The Plant was designed by M/s Bharat Heavy Plates & Vessels (BHPV), India in collaboration with M/s Air Liquide, France. The plant was installed and commissioned in 1995. The plant operated continuously till 1998 when it was stopped due to unremunerative Argon price. The plant was restarted in January 2004 and operated till November 2005 when it was stopped again due to unremunerative Argon price. During its operation, the plant has produced very good quality Argon surpassing the design purity of 99.9993 % by volume.

The feed gas to Argon Recovery Plant comes from the Tail Gas of Purge Gas Recovery Unit of our Ammonia Plant. The design feed gas composition is in the following range : Hydrogen 4 - 12 vol. % Nitrogen 52 - 57 vol. % Argon 8.6 - 11.0 vol. % Methane 23.5 - 31.5 vol. %.

Pressure = 1.6 Kg/cm²g; Temperature = 15 deg C

Argon Plant Capacity: 2 million standard cubic meters per year at 27 deg C.

Liquid Argon Storage capacity: 2 nos. Vacuum Insulated Storage Tanks of 76 m³ each.

Liquid Nitrogen Storage capacity: 1 no. Vacuum Insulated Storage Tank of 50 m³ and 1 no. of Vacuum Insulated Storage Tank of 30 m³ capacity.

Liquid Nitrogen is produced in the plant continuously as a by-product and is utilised during Argon Plant startup.

A Nitrogen cycle compressor driven by condensing steam turbine (steam pressure of 37 kg/cm²g and 380 deg C) meets the refrigeration requirements.