



BOSCO INDIA

GLOBAL MANUFACTURER OF
STANDARD & ENGINEERED
CRYOGENIC EQUIPMENT

INTRODUCTION

BOSCO INDIA , spread across a vast global distribution network, is poised to achieve high growth; in the interests of its people, shareholders and society at large, through persistent innovation & excellence.

BOSCO is among the largest manufacturers of standard & engineered cryogenic equipment serving leading international gas companies worldwide. Our forte being design, engineering, manufacture, supply & commissioning of turnkey packaged system involving storage, vaporization and distribution systems for LIN, LOX, LAR, LCO₂, LN₂O, LHY, LNG and ETHYLENE service.

Cryogenic Engineering Company focused on Cryogenic insulation technology equipment & systems. Approvals & certifications : ISO, US DoT, WMI, NHTSA, NBIC, ASME (U STAMP), GAWDA, AWS, ADM, HPO, PED, TPED, CE, AS1210, CGA, KGSC, DOSH, GOST-RTN, CRN, Lloyds Register (Marine) and OHSAS.

has its offices & manufacturing plants in India



KEY BUSINESS AREAS



**INDUSTRIAL
GAS**



**LIQUIFIED
NATURAL
GAS**



**CRYO
SCIENTIFIC**



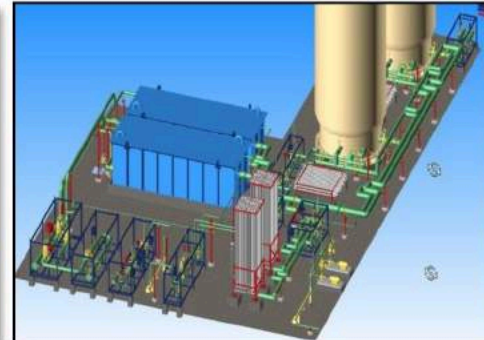
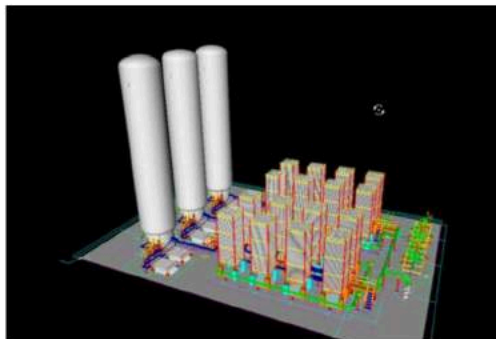
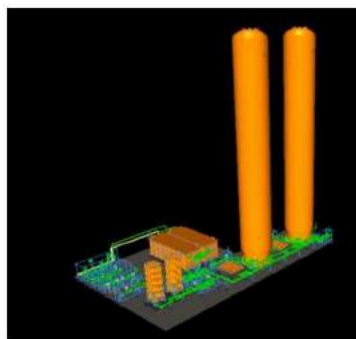
OIL & GAS

INDUSTRIAL GAS : TURNKEY PACKAGED SYSTEM

Complete storage, vaporisation and distribution system to deliver product from cold box / ASU outlet to customer take-off point or process battery limit. Designed for various process applications like inerting, purging, emergency backup, blanketing. Specialized applications like emergency backup supply of oxygen gas, nitrogen gas at high flow rates for metal industries, etc.

Equipment: Flat Bottom Tank (FBT) • Vacuum Insulated Storage tanks (VIST) • Super-Insulated Transfer Piping • Ambient and Steam Bath Vaporisers • Pressure Regulating & Control Skids.

Components: High Pressure Reciprocating Pumps • Centrifugal Transfer Pumps • Valves • Instrument & Control System Skids for Pressure, Temperature & Flow.



SOURCE: ASU or external supply by *Transport Tankers & Trailers* via *Super-insulated Piping & Transfer Pumps*

STORAGE: *Single or multiple Vertical or Horizontal Vacuum Insulated pressurized Cryogenic Liquid Bulk Storage* Tanks or *Site Built double walled insulated Flat Bottom Tanks* for very large capacities.

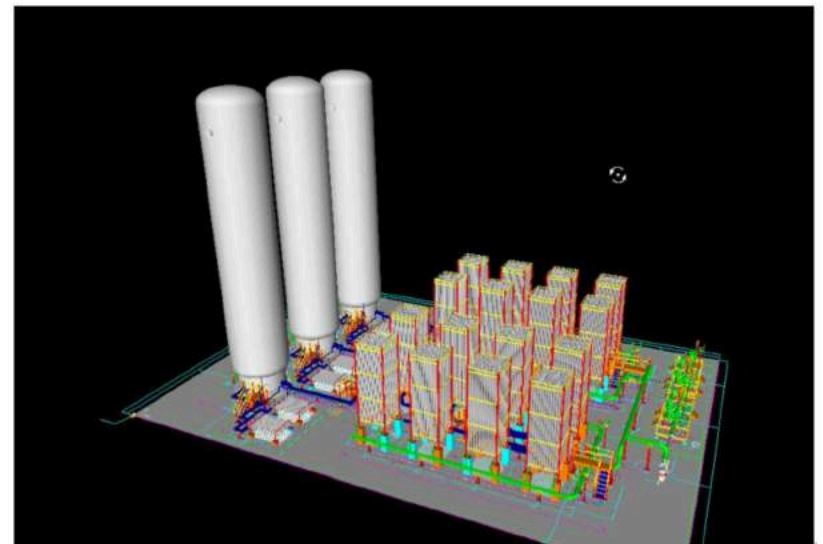
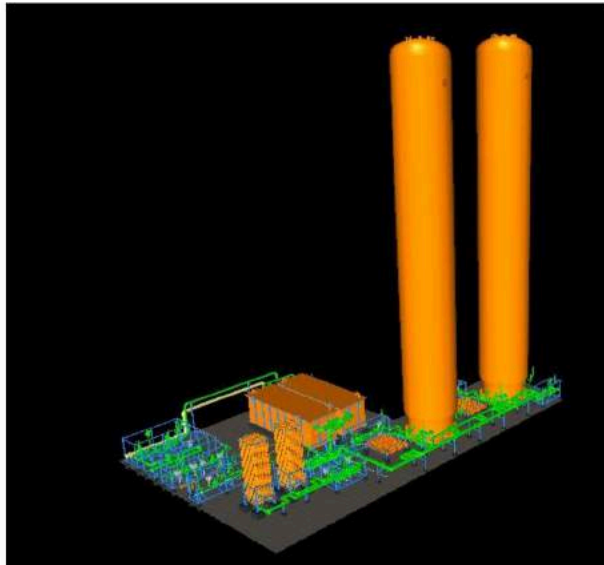
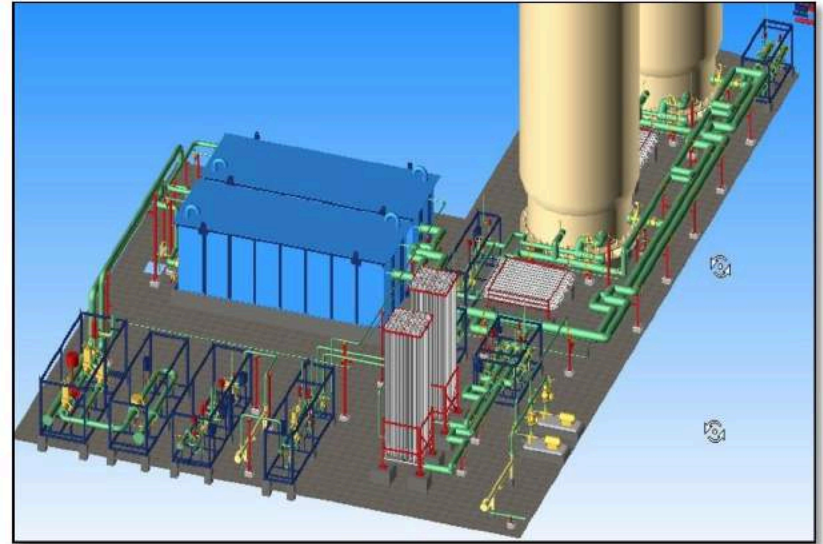
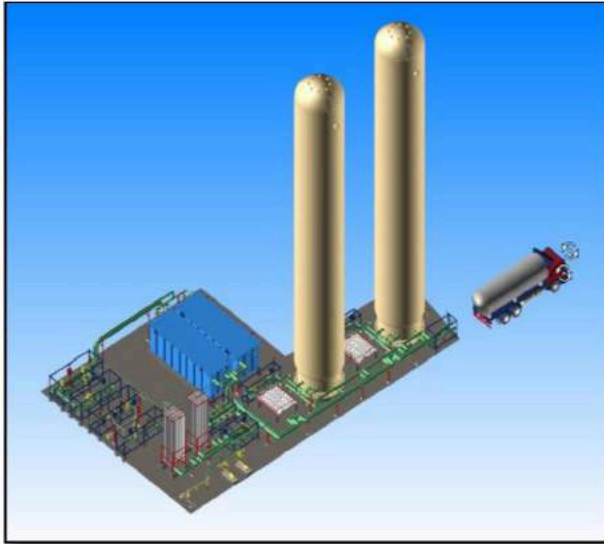
LIQUID TRANSFER: By pressure differential or *Centrifugal or Reciprocating pumps* transfer, Boil-off gas build-up is recovered using Ambient Vaporiser type Boil off gas heater.

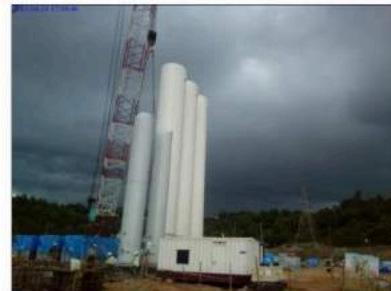
VAPORISATION WITH SWITCH-OVER: *Atmospheric Vaporisers, Electric Trim Heaters, Steam sparged Water Bath Vaporisers and Shell and Tube vaporisers.*

INSTRUMENTATION, MEASUREMENT & CONTROL: Pressure regulation is achieved by control valves or spring actuated regulator. Temperature is governed by heating media or controlled by electrical trim heaters. *Gas Buffer Tanks* can also be installed as reserve quantity till main back up system takes over.

SAFETY: *Dual Cryogenic Pumps, Safety Valves* for added safety, Pump seals purged with inert gas. Formal HAZOP study and documentation can be provided.

EPC PROJECTS – 3D MODEL DRAWINGS







NITROGEN & CARBON DIOXIDE VESSELS





STANDARD CUSTOMER STATION TANKS

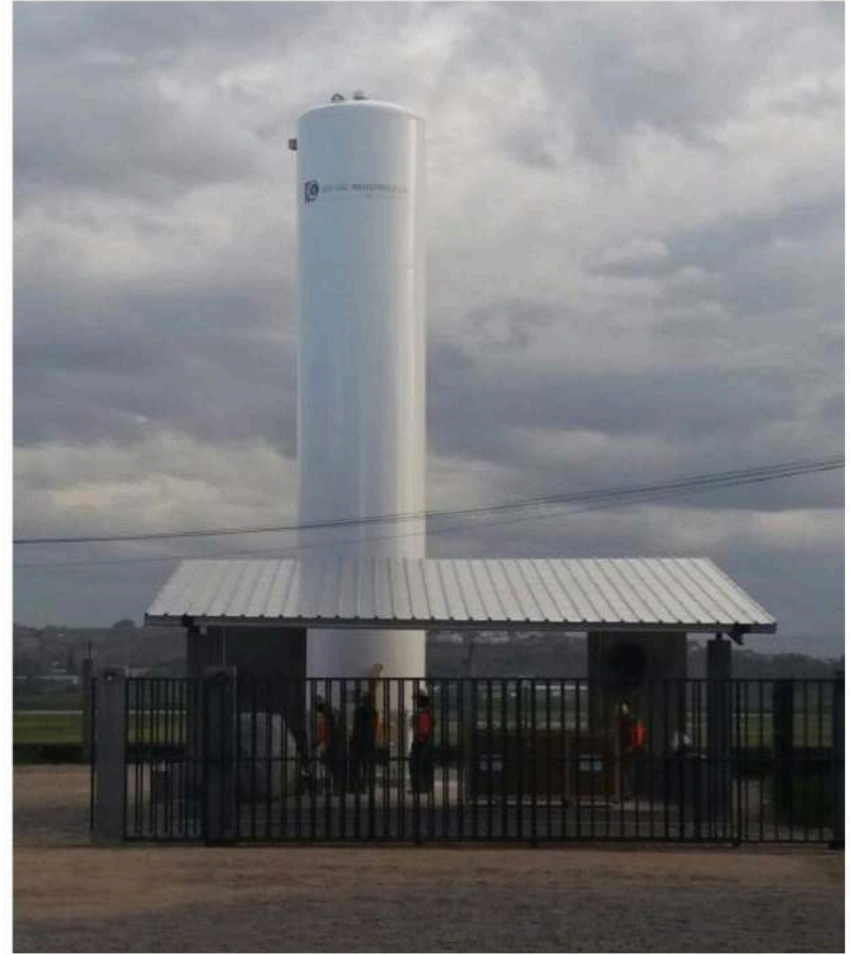
AFRICA



PAKISTAN



STANDARD CUSTOMER STATION TANKS



STANDARD CUSTOMER STATION TANKS



Flat Bottom Tanks at Steel Plant



150KL LIN TANK, VAPORIZERS & REGULATING VALVE SKID



TRANSPORT TANKS

TRANSPORT TANKS

WHEN YOU QUESTION LIMITS,
NEW MILESTONES ARE ACHIEVED



Semi-Trailers



Microbulk Delivery Units



B-Train



LNG Trailers



ISO Tank Containers

LIN, LOX, LAR OPTIMIZED PAYLOAD • RUGGED DESIGN • HIGHLY EFFICIENT SUPER INSULATION • LCO₂, LN₂O, LNG SERVICE OPTIONS

ISO IMO7 UN PORTABLE T75 TANK CONTAINER- 20 FEET



RAIL CARS



VAPORIZERS

Tube
&
Shell
Type

Ambient
Air
Heated

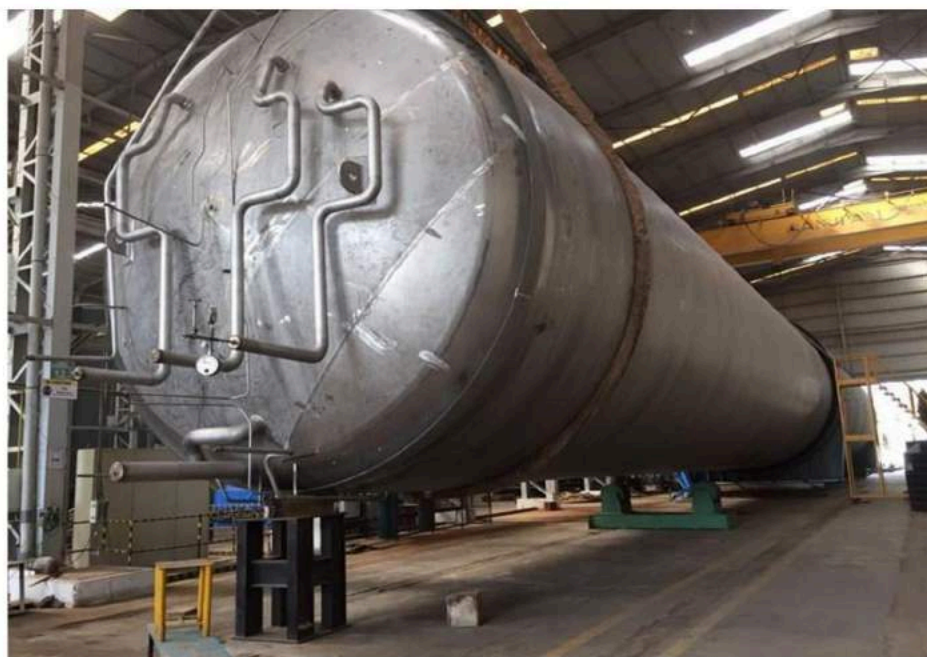
Steam Hot Water
Bath heated



Water
Bath









MEDICAL OXYGEN STATION



LNG MARINE FUEL SYSTEM



THANK YOU



BOSCO INDIA