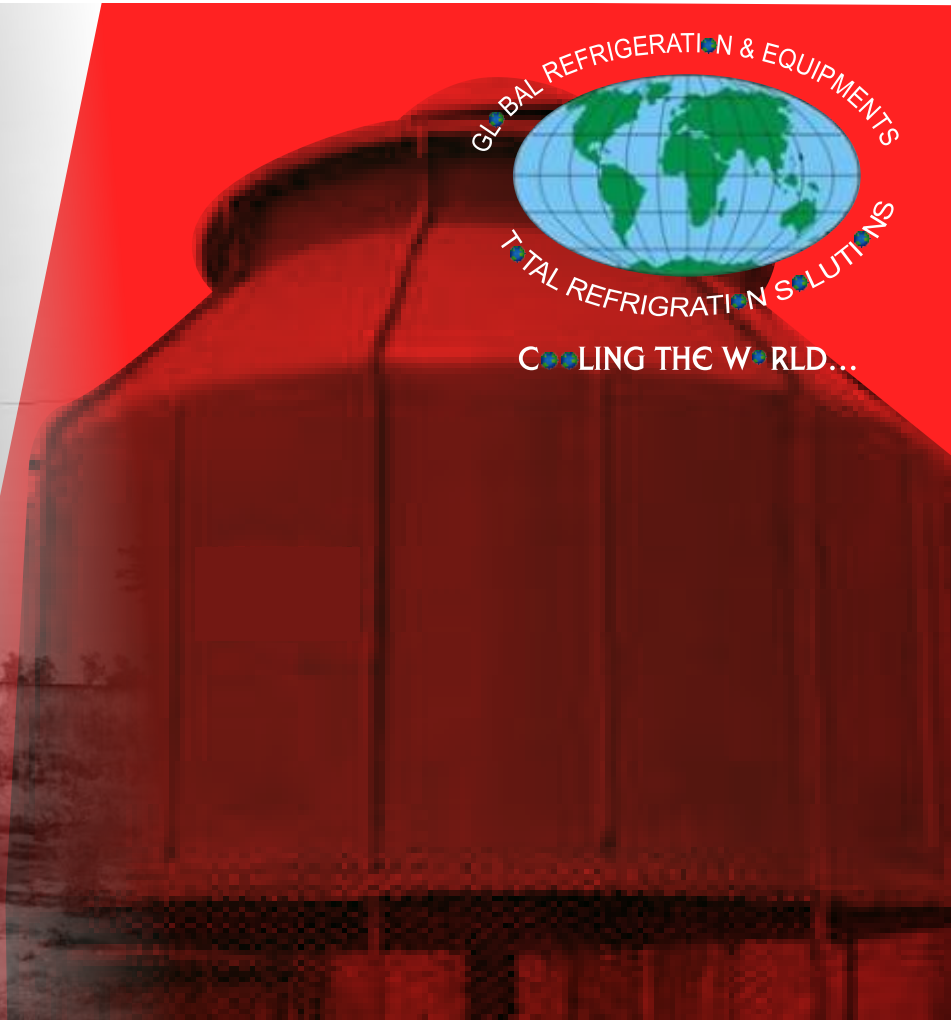




**WE DO
CHILLING
BUSINESS**



GLOBAL REFRIGERATION & EQUIPMENTS
TOTAL REFRIGERATION SOLUTIONS
COOLING THE WORLD...

GLOBAL
REFRIGERATION & EQUIPMENTS

(AN ISO 9001:2008 CERTIFIED COMPANY)



CE

A PRODUCTS BY ANKUR NARULA

COMPANY OVERVIEW

Quality, Reliability Innovation & Outstanding Customer Service Have Made Global Refrigeration & Equipments Worldwide Leader In Industrial Chillers & Refrigeration Global Refrigeration & Equipments headquarters in India and offices & sales partner and customers in all over world in every kind of industry process we have truly global presence. Over the last 9 years of supplying the world industries such as beverages, food, chemical, pharmaceuticals, paints, autos, plastic etc which allow us to properly advise customers on the correct selection & application of our products.

Components & raw materials are sourced from world class manufacturers with an emphasis on quality. The GLOBAL REFRIGERATION is fully committed to quality and has ISO9001:2008 certification.

Customer satisfaction with both the products and service we provide has always been the key to the success of our business and our company goals and objectives are geared around this.

All of our Chillers are manufactured under strict quality control with full traceability and each and every one is individually tested to ensure their best performance.

chiller and purpose of installation to particular site. We would be pleased to advise customers on the correct choice of Chiller & machine to suit their intrinsically safe application:-

Our chillers are world best selling chillers around the global which give us confidence to provide onsite warranty to our customer. We have wide range of chiller for

Enviornmental Protection
High Temperature Application
Lighting Protection

ECO-FRIENDLY CHILLERS

Global CFC- free Chillers are Designed keeping in mind the user's point-of-view and the same quality policy because of which Global has reached its present status of being the premier organization for process chillers in India -strating humbly about a decade and half ago. Now , instead of the least choice available otherwise, you have a complete range of CFC- Free Chillers to chose from - for your unique requirements of process cooling - from 2TR to 150TR.

These Chillers - with higher COP - are so rugged yet the features of these machines are so premium that these could be bench marks of standards for manufacturing, all over the world. Some of these special features are as follows;

- » Fully automatic, PLC based system with touch screen panel for precise, efficient and user-friendly operation
- » Remotelyoperable . Connectivity to customer network through SCADA.
- » Electronic expansion valve for precise superheating and improved power efficiency.
- » Totally factory assembled - Including pumps, tanks etc. - with fully operational demonstration, including efficiency tests , at our works.
- » Fully Weather proof with Spray Galvanized structure - can be kept in open air, without any roofing, under shower or within dusty surroundings- with IP55 level protection.
- » Fit for most re-circulating fluids, however corrosive, viscous or flammable. Total wetted parts including pumps, tanks piping etc. made out of SS-304, SS-316(L), Cupro - Nickel etc.
- » Designed to operate effectively upto 50° C ambient and 99% RH. And most of the above features are, also, available with our regular machines. To put it simply, these machines are beyond comparison



SCREW CHILLERS

Screw Chillers are very well known worldwide as 'nothing-happens-to-them' machines. The expertise and experience required to handle these Chillers, availability of the critical components indigenously, applications of these Chillers and the like are the issues being the least answered so far by the other manufacturers.

Global, clearly understanding all these issues, manufactures a range of these Chillers form 50TR to 250TR - with both Dx and Flooded Evaporators - to achieve higher COP - having a dedicated team of professionals which exclusively looks after these machines - from the designing to fabrication and testing to the commissioning and after-sales-service - so that these superior machines get the attention what they deserve.



SPECIAL MACHINES - BUILT TO YOUR NEED

We, by now, have been through numerous experiences as to how one Chiller can be different from the other, knowing that the applications of process cooling are varied and providing a standard systems for all the processes may not be possible or may be compromising on the basic need and the purpose for which these Chillers are to be installed.

The application of Chillers in the plastics, chemicals, pharmaceuticals, gas liquification, oil cooling, concrete bathing and the like are so unique that a Chiller best suited for one application may not even work at the other.

It is where the expertise and experience of the Chiller manufacturer will count as to whether it has had any machines commissioned for the specific process or has been manufacturing for standard applications only.

This experience one gains by working on many similar projects repeatedly - perfection by practice - and Global has an upper hand here being dedicated to process cooling needs – all of them - from (+)30°C to (-)50° C.

As our total focus has been over one range of products only, we have learnt and almost perfected over varied process cooling applications, by listening to the customers, observing the details of different projects carefully, being aware of the available resources world-over and then conceptualising and providing the most suitable, tailor-made solutions.

All this is also helped by being capable and courageous to take initiatives at the proper times to produce the machines which are the latest, the most efficient and most importantly relevant and closest to what was desired. We are and we do.



WATER COOLED

Capacity	5 TR to 450 TR , stand-alone
Temperature	(+) 30°C to (-) 50°C
Flow Rate	50 lpm to 8,000 lpm
Fluid pressure	1.5 bar to 8.5 bar
Temp. Gradient	upto 60°C
Max. Ambient	(+) 50°C
Max RH	99%



AIR COOLED

Total Range	
Capacity	2 TR to 300 TR , stand-alone
Temperature	(+) 30°C to (-) 40°C
Flow Rate	20 lpm to 5,000 lpm
Fluid pressure	1.5 bar to 8.5 bar
Temp. Gradient	upto 50°C
Max. Ambient	(+) 50°C
Max RH	99%



EXPORTS

We are exporting our machines to more than 20 countries - some of them regularly - viz. Turkey, Pakistan, Saudi Arabia, Thailand, Bangladesh, Sri Lanka, Nepal etc. We shall soon start exporting our Chillers to Europe and America. We are targeting to export 20% of our production, by 2013-14.

PROJECTS

We, also, undertake few chosen projects, in process cooling, on turnkey basis. We have dealt with many such projects - for varied process cooling applications - valuing upto Rs. 1.5 crore/300,000 USD.

REFRIGERATION UNIT CARBON DIOXIDE REFRIGERATION SYSTEM

We excel in designing, manufacturing and distributing CO₂ refrigeration units to a large number of industrial establishments.

- » Our unit are specially built with standardized raw materials and are quality tested by our professionals at various stages of production to infuse high performance into them.
- » Our compact and efficient CO₂ refrigeration units can be put into a number of industrial applications and processes.
- » For providing best services to our customers we make custom made units as per the technical needs and specifications of our customers to give them full satisfaction.
- » Our units are designed for maintaining internal pressure of CO₂ storage and mobile tanks 22.5kg²/ cm² g to 17.5 kg/cm g.
- » Our units are fully automatic machines and work on DANFOSS sealed compressor which is suitable for minus temperature.
- » Our machines work on R-404A gas. The capacity of our units is suitable for 5 kl to 200 kl tanks.



REFRIGERATION UNIT SUITABLE FOR AIR SEPERATION PLANT

We excel in designing, manufacturing and distributing Air, GAS & OIL CHILLING PLANTS to a large number of industrial establishments

- » Our unit are specially built with standardized raw materials and are quality tested by our professionals at various stages of production to infuse high performance into them.
 - » Our compact and efficient unit can be put into a number of industrial applications and processes.
 - » For providing best services to our customers we make custom made unit as per the technical needs and specifications of are customers to give them full satisfaction.
- Moreover choosing our air chillers over the outdated water chillers proves to be very advantageous as:-
- » Your power consumption will be reduced by more than 50 to 60 % and this is proven.
 - » Air chillers are more efficient than water chillers.
 - » Water chillers are very bulky and require a lot of space for installation whereas air chillers are light and require only 50% space as compared to water chillers.
 - » Our air chillers have a very attractive outlook.
 - » Our air chillers are cheaper than the water chillers.
 - » Also our air Chillers require cheap and less maintenance over water chillers.

Our air chillers require the following installed load in different capacity of air separation plants

TYPE	INSTALLED LOAD
125m ³ O ₂ N ₂ air separation plant	3 T.R.
225m ³ to 300m ³ O ₂ N ₂ air separation plant	5 T.R.
400m ³ O ₂ N ₂ air separation plant	7.5 T.R.
600m ³ O ₂ N ₂ air separation plant	10.0T.R.

We also make unit for air separation plants above the capacity of 600m³

LIQUID CARBON DI-OXIDE TANKS

We have emerged as a world-recognized organization involved in manufacturing and supplying a commendable range of CO Storage System. This system is engineered by our professionals in order to make valuable for storage of Carbon Di-oxide gases. It is suitable for storing gases at lowest temperature of -20 degree centigrade and pressure of 20g/cm g. Offered product is highly demanded in the market for its quality, operation efficiency and prolonged service life.

It is offered to the clients with below enlisted features:

- » Storage capacity: 1MT to 100MT
- » Study construction
- » Cost effective

SPECIFICATIONS:

- » Pressure reducing stations with by pass line. PRV is able to deliver constant pressure in downstream side irrespective of change of pressure of upstream side.
- » Pressure gauge and pressure switch has been provided for auto control of tank pressure by operation of CO cooling unit.
- » Differential pressure liquid level indicator indicates the level of mmWC column. A corresponding chart is supplied with each system to determine the tentative quantity of liquid in Kgs. (Optional).
- » Load cell weighing system to determine the tentative quantity of liquid in Kgs (Optional).
- » D.P type gas flow rate indicator cum totalizer can also be provided on tank outlet line for counting the gas quantity(Optional).
- » Temperature indicator indicates liquid temperature and pressurising circuit maintains tank pressure (Optional).
- » Cooling unit control panel operates when pressure exceeds above set - range to restrict the vapour loss. This has electric control circuit and other instruments as per the requirement to make it automatically operational.
- » Two nos. of safety valves are provided each having sufficient discharge capacity to discharge the gas during excessive pressure accumulation
- » Two nos. of isolation valves provided for periodic inspection and testing of safety valves.
- » Vaporizer to maintain constant CO vapour during process consumption of gas in Plant.
- » 200th K PUF Insulation provided with aluminium sheet barrier.
- » The entire system is sturdy, compact with easy access and maintenance of components.



LIQUID PUMPS

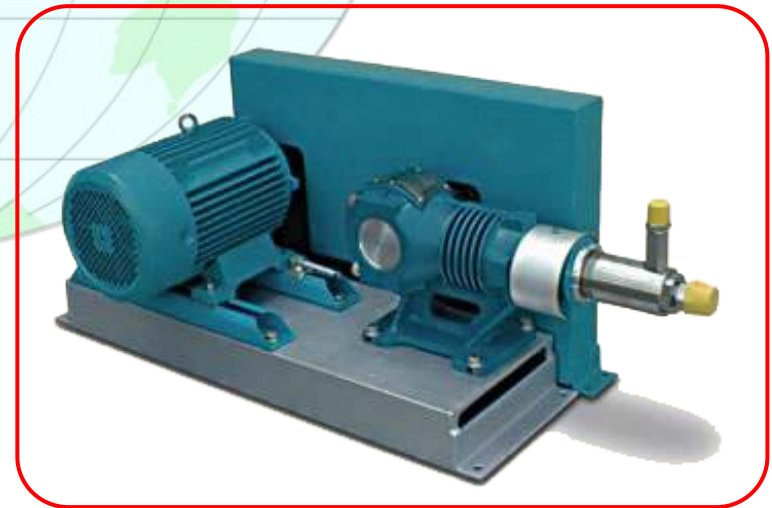
We are recognized as leading manufacturer, supplier and exporter of a wide assortment of Liquid Reciprocating Pump. These liquid reciprocating pumps are designed and engineered using premium quality raw material and as per international quality standards. Offered range of liquid reciprocating pumps can be availed from us at market leading price.

PRODUCT DESCRIPTION:

- » High pressure cylinder filling pump is used for filling liquefying gases into the cylinders. Mainly these gases are Argon / Nitrogen / Oxygen and Carbon Di-Oxide.
- » These are manufactured very strict standards of quality and workmanship . For performance and safety , individual pump is tested in our work place before sending to customer.
- » Pump consist of vacuum jacketed cold end and drive assembly , electric motor with belt drive and guard , Galvanised steel skid , pressure gauge with pressure with safety valve and vent line with low pressure relief valve.

FEATURES:

- » Vacuum jacketed cold end helps minimize heat leak and reduce product loss
- » Grease lubricated , sealed for life bearings for long operations
- » Split drive end housing for easy maintenance access
- » intermediate purge connection allows for extended packing life
- » Positive locking drive coupling for improved safety operation



BRINE CHILLER

Brine chillers are a solution when cooling medium is water with glycol and this occurs when low fluid temperature is demanded or glycol must be added to the cooling water in order to protect it from freezing.

Our systems provide constant supply of chilled propylene glycol from -25°C / $+7^{\circ}\text{C}$. Ethylene glycol can be also used but not in applications where glycol circuits can be in contact with food products. Brine Chillers can be equipped with integrated air-cooled condenser or can operate with a remote air-cooled or evaporative condenser. They can be for outdoor installation or for indoor installation in a machinery room.

INSTALLED COMPRESSORS ARE :

- scroll type for small applications (until 100 kW) and medium brine temperature (brine supply temperature: $+7^{\circ}$)
- semi-hermetic reciprocating for medium applications and medium to low temperatures (brine supply temperature: -15° / $+7^{\circ}$)
- semi-hermetic reciprocating 2 stage for very low temperatures (-25° / -15°C) and better energy efficiency
- semi-hermetic screw compressors for big installations and medium to low temperatures

Our brine chillers are equipped with a special regulating mechanism allowing unceasing smooth operation even in -20°C ambient temperature.

Chilled glycol pumping system and storage tank can be contained inside the unit or can be assembled separately in a compact metal base for easy installation. Pumping system can be one circuit-loop or forming primary and secondary circuits for best adjustability to the cooling demand and significant energy saving.

Brine mixture refill system

In many applications a brine mixture auto-refill system is recommended. This system provides storage of already prepared mixture of glycol and water and manually or automatically refills the circuits with the lost fluid quantity. Also it detects fluid leakage by means of abnormal pressure drop and generates alarm.

PLATE TYPE HEAT EXCHANGER

Our company is a commendable exporter, manufacturer and service provider of Plate Heat Exchangers that are offered in different plant sizes that range from 1" Dia to 12" Dia.

We provide different models to our customers at industry leading prices. Our company presents numerous PHE designs that are in different plate models to meet varying requirements of the client. In addition, these Plate Heat Exchangers are manufactured using graded elements to ensure excellent heat recovery and reliable performance

PHEs are used in variety of process industries for heating and cooling applications. We have a huge inventory of wide range of plates having different port diameters. Our team of design experts calculate the best design for a particular application resulting in standardization for almost all industrial applications. We have standard designs ranging from cooling ice cream mixtures to cooling hydraulic oils used power packs.



BEVERAGE & MILK CHILLER

Beverage Chillers are specifically designed for the applications in food and beverage industry. The Chillers are customized to cool alcoholic and non-alcoholic beverages, juices, pulps etc., directly, saving energy by upto 30%. Food grade metallurgy for the vessels as well as food grade fluids are used, for completely safe process cooling, as per the highest international food safety standards.

PROMINENT FEATURES

- The latest most efficient and highly reliable screw and reciprocating compressors.
- Environment friendly, energy efficient and operation friendly refrigerant R-134a / R-404A, available.
- Custom designed, for large temperature gradients from +40°C to (-)10°C through direct cooling, available.
- Factory assembled and tested as per shop floor operability and safety standards.
- Factory made and tested DX evaporators, using food grade metallurgy, as per highest international food safety standards.
- High fouling factors, increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance.
- Electronic expansion valves for increased efficiency and precise temperature control.
- Fully automatic PLC based units with remote operation and data logging facilities.
- Stepless capacity control from 25% to 100% adapting precisely to varying process loads.



COOLING TOWER

We are the leading cooling tower manufacturer in India. Over the years, we have gained a good reputation in the market in terms of water cooling tower manufacturer. These are low noise cooling towers.

This cooling tower with forced draught can be integrated into the cooling water circuit. Evaporation loss are compensated automatically. Temperature, atmospheric humidity and water flow rate are measured at the inlet and outlet of the cooling tower. The tower is designed using corrosion-resistant materials suitable for outdoor use. It is also equipped with a roof to protect it from the rain. The cooling tower is connected to the electrical system and water system.

These cooling towers are highly demanded and appreciated by our customers for its outstanding cooling functionality and effectiveness for various applications. Our FXV cooling towers are designed to provide oxidization resistant and high strength functionality which are very cost competent and energy efficient. These towers can be availed from us at competitive range of prices.

Assisted by our team of dexterous professionals, we are involved in offering an extensive gamut of FRP Cooling Towers. This tower is induced draft-rotary sprinkler type with alluminum casting fan, FRP body with suitable electric motor for maintaining the circulating water temperature between the hot well and cold well for optimum performance of the plant. Apart from this, the provided tower undergoes numerous tests to ensure its quality.

APPLICATIONS :

Chillers
Air Conditioning Plant
D G Set / Turbines
Injection Moulding / Plastic industries
Induction furnaces / steel plant
Automobile industries
Chemical and petrochemical industry
Paper mill and sugar mill
Refinery and Fertilizer industry

TECHNICAL DATA REQUIRED FOR SELECTION OF COOLING TOWER:

1. Rate of water circulatuion
2. Hot water temperature in
3. Cold water temperature out
4. Ambient wet bulb temperature
5. Information in brief about site conditions and water quality.

VAPORIZERS

Aiming at maximum level of client-satisfaction, we have been involved in manufacturing, supplying and exporting an exemplary array of Cryogenic Ambient Vaporizer. We are enriched with diligent manpower which helped us to manufacture these product as per the demands of various industries. In our world class manufacturing facility, this product fabricated with top-grade stainless steel and other raw material. Offered product is suitable for industrial applications and demanded in the major markets across the world.

SALIENT FEATURES:

- » High strength
- » Corrosion resistance
- » Quality assured

We manufacture two type of vaporizers:

Medium & low pressure Vaporizers : Maximum allowable working pressure up to 40kg/cm g or medium and low pressure Vaporizers
High pressure Vaporizers : Maximum allowable working pressure 300kg/cm g used for cylinders filling for Argon / nitrogen and for Oxygen

STANDARD FEATURES:

- » High strength
- » Corrosion resistance
- » Quality assured

We manufacture two type of vaporizers:

Medium & low pressure Vaporizers : Maximum allowable working pressure up to 40kg/cm g or medium and low pressure Vaporizers
High pressure Vaporizers : Maximum allowable working pressure 300kg/cm g used for cylinders filling for Argon / nitrogen and for Oxygen

- » All models are design as per ASME section VIII- Div-1 with latest edition
- » Suitable for wind load up to 160km/hr seismic requirement up to Zone-V
- » Sustainable to server thermal cycling and ice loads High thermal efficiency and advanced Integrated design single unit up to 5000sm³/hr
- » Suitable models are available with low pressure drops and larger fluid area to provide high capacity performance fast defrosting



COMPULSORY MESSAGE FOR OUR INDUSTRY AS PER CCOE

Since last Few Years have shown all of us about the danger of human life by using non tested cylinders. Not only it leads to destruction of life and property but also harms the goodwill of the company which is built through years of hardship. Thus in today's time it is a mandatory requirement for testing each & every cylinder before filling it.

Moreover due to the rising prices it is not economical to get the cylinders tested from outside as it requires huge transportation cost with the strenuous job of loading and unloading the cylinders.

Therefore the cheaper and more economical option available is to have your own cylinder testing workshop.

THEREFORE NO LOSSES JUST PROFITS

Now the question that must have come in your mind must be "Where to find the BEST SAFE AFFORDABLE cylinder Testing workshop"

Don't worry your search has just come to an end!!!

We at global work towards catering to all the needs of our customers.

We provide world class cylinder testing equipment with full guarantee and LIFETIME after sale services and spares.

"YOUR SATISFACTION IS OUR MOTTO"

Our after sale services and the best quality equipment make us stand above our competitors. We also make custom made test shop that fits your requirement. Therefore no worries of making space for the testshop rather the testshop makes space for itself.

Our very user- friendly and long lasting world class quality features make it easy to use and can be used by all only one skilled labour is required is as per the explosive norms.

ADVANTAGES OF TEST SHOP

There are many advantage of having a test shop at your own filling station :-

- » It is safe, secure and cheap
- » No transportation cost involved.
- » Any time any day testing
- » Production does not suffer.
- » You can earn too by testing cylinders for others.
- » One skilled labour required.

ACCESSORIES



PRESSURE REDUCING VALVE



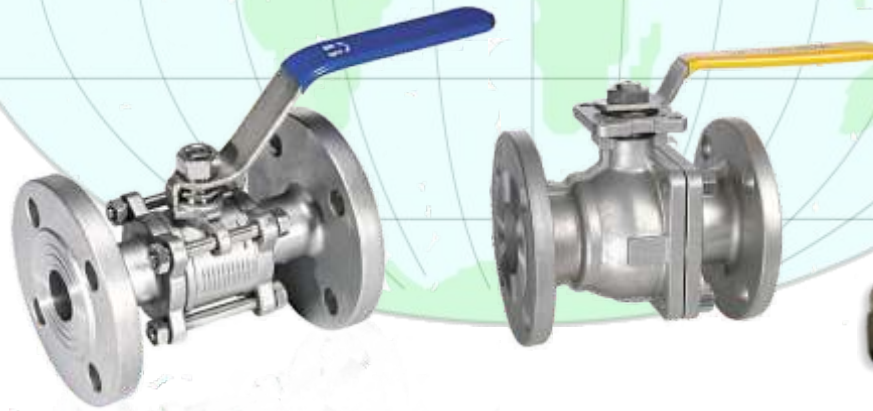
CARBON FILTER



REFRIGERATER AIR DRIER



AXIAL FAN



BALL VALVES



SAFETY VALVES

OUR CLIENTS

Coca-Cola



PEPSI

PARLE



satyam
auto components Ltd.

Hamdard

DS GROUP



INDIA GLYCOLS LIMITED

Bisleri

Superior's

Bhartiya

Vehicles & Engineering Co. Ltd.

**NATURE'S
MIRACLE**

RELIANCE



CREATIVE OZ-AIR (I) PVT. LTD.

Global Corporate Mission

GLOBAL mission is to grow our company by providing innovative, strong and high performance products and solutions to meet our global customer's needs.

We will support our world class products by providing superior customer care.

Our care extends to the environment and the community. We want to help build a better future for our children, where hard work and dedication are given their just reward.

Members of

- All India Industrial Gases Manufacturers Association(AIIGMA)
- Indian Society of Heating Refrigerating and Air Conditioning Engineers ... (ISHRAE)
- All India Air Conditioning & Refrigeration Association (AIACRA)



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