GARG
GLASS - INDIA
Creating Solutions & Transparency

GARG SCI-TECH GLASS (INDIA) PVT. LTD.

COMPANY PROFILE

Garg Sci – Tech Glass (India) Pvt. Ltd. is the leading ISO 9001:2015 certified manufacturer of Borosilicate 3.3 Industrial Glass Equipment's / Process Plants in India, meeting to stringent International Standards. We are now a leading manufacturer and supplier of reactors and accessories made of Borosilicate Glass right from R&D scale to Pilot Plant and finally Production Scale. We provide complete corrosion resistance solution to the engineering needs of our clients in the Chemical, Pharmaceutical, Petrochemical, and Allied Industries. Our products are also used in Laboratories and Academic Institutions as well as for R&D purpose. All our glass equipment complies with ISO 3585/ 3586/ 3587 for Buttress Ends DN 25 to DN 800 and find extensive use in the construction of complete Glass Process Plants/ Kilo Labs/ Pilot Plants in the Chemical Process Industry.

Our promising track records for on time delivery, premium quality, strong adherence to BS and DIN Standards coupled with excellent after sales services, has earned us remarkable market share in India. With our world class quality and backed by our strong and sound management, we have already entered into the international markets and have received excellent response from countries like Malaysia, Iran, New Zealand, Singapore, Jordan, Dubai, Israel, Bangladesh, etc.

We have expertise in Glass Fabrication Blowing Technique with technical backup and high quality engineering products made of Borosilicate Glass 3.3.

We provide necessary Basic Engineering and Detailed Engineering Services, required for the Design, Construction and Operation of Glass Process Plants and Systems where, glass is an ideal material of construction. As regards the quality and services offered by 'Garg Sci – Tech Glass' provide not only state of the art equipment but also the Services of Installation, Operation and Maintenance along with the expertise of our technical team.

In the construction of Glass Process Plants, PTFE as a material plays a crucial role. We thus engaged in the manufacturing of PTFE components like Gaskets, 'O' Rings, Bellows, Bushes, PTFE Tube Sheets (for Glass Shell & Tube Heat Exchanger), Mechanical Seals, PTFE Distributors, etc. required for the construction of Glass Process Plants.

We are also engaged in manufacturing complete range of Glass Plant Supporting Structure Parts like Bends, Brackets, Support, Cross, Base, Tee, Vessel Holders, etc. along with metal parts like Couplings, Chuck & Seal Assembly, etc. required for Glass Assemblies. This 'Single Window' facility available only with Garg Sci – Tech Glass would enable to maintain a thorough and uniform quality control at all levels.

We also have excellent support from our strong Technical and R&D Team for providing package solutions.

Message from Managing Director

GARG
GLASS - INDIA

Greetings,

As a young glassblower I had started my career with Laboratory Glassware and there may be hardly any item that I have not fabricated with my own hands. Laboratory has always been my favourite area, although over the years, I gradually diverted to Industrial Glassware. It is my great pleasure to present you to our industrial catalogue with an assurance of quality as per International Standard of Practices.

It is said, *"Every great company is the lengthened shadow of a single man"*

With our management team, I have worked hard to achieve a certain position at which we are right now. As I look at the growth over the years, I am extremely proud of what we have achieved and even more motivated about our position for an equally promising future. We have successfully transitioned from a single city start-up to become a respected company, gathering business from across the country, while earning our client's trust along the way.

Garg Sci – Tech Glass has always considered Quality as its foremost concern and we aim to continue abiding by the highest ethical and compliance standards. Our dedicated, customer – oriented team provides a personal and customized service to our customers, building relationships along the way.

We have travelled a long way to become the Market Leaders in Borosilicate Glass 3.3 Industrial Equipment's manufactures. This would not have been possible without your support & patronage.

At Garg Sci – Tech Glass, I take pride in standing tall and successful along with my employees and customers for maintaining core values and believing in us.

I sincerely hope that you as our valuable customers will trust our expertise, based on our decades of experience in the Scientific Glass Industry.
We look forward to your continuous support in our efforts to excel in our activities.

With Best Regards

Anil Garg
Managing Director

01 Glass Big Flange Making Process

02 Glass Flange Dimension Checking Process

03 Glass Coil Condenser Making Process

04 Glass Vessel Making Process

05 Cylindrical Flask Making Process

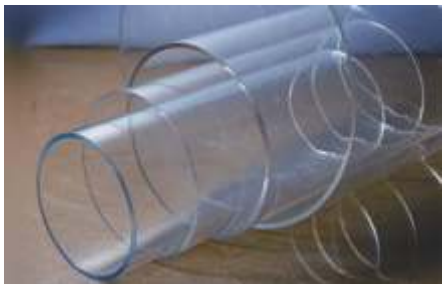
06 Spherical Vessel Making Process

07 Column Grinding Process

08 Condenser Hydro Pressure Testing

01 Raw Material





02 Semi Raw Material



03 Finished Material






PIPELINE COMPONENTS

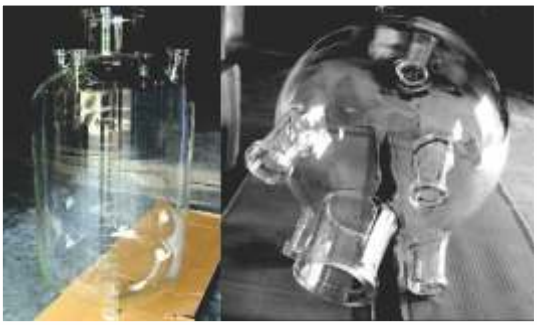
Pipeline Components are also used in the Design of Process Plant. For example Pipe Sections are used in Column, Feed Pipes are fitted in Reducing Tee Pieces and Reducers are also used as the Top or Bottom Components in Column.

VALVES & STOPCOCKS

Valves and Stopcock can be relied upon to require minimum maintenance & to provide maximum reliability. These valves & filters provide the relatively easy on-off function to control flow & pressure relief. All wetted parts of valves & filters are made of Borosilicate Glass 3.3 & PTFE, which ensures maximum resistance to corrosion. The complete valve consists of Glass Valve Body, PTFE Bellow with Nut, Bakelite Valve Bonnet with MS Spindle etc. Different types of valves like Line Valve, Drain Valve, Bottom Outlet Valve, Vent Valve, Adjustable Overflow Valve, Non-Return Valve (Flap Type), Non-Return Valve (Ball Type), Pressure Relief Valve, Sampling Valves are available.

VESSELS

Borosilicate Glass Vessels in either Jacketed or Unjacketed Form are essential components of many Units and Plants. The Glass Reaction Vessel can be combined with various components such as Stirrer Drive, Vessel Covers and Heat Exchangers to construct the wide variety of Stirred Units and Reaction Systems. These Glass Vessels find universal application as Reactors, Receivers, Reboilers, Separators, Measuring, Feed Vessels and Glass Storage Vessels in the Chemical Industry. The complete range of Standard Glass Vessel is available upto 500 Liter Capacity.



HEAT EXCHANGERS

Heat Exchangers provide the optimum solution for all requirements encountered because of the wide range of Heat Exchangers available. Heat Exchangers are used for condensation of Vapours or Cooling of Gas or Cooling of Liquids. Two basic types of Glass Heat Exchangers are available such as Coil Type and Shell and Tube Type. Glass Coil Type Heat Exchangers are available as Condensers, Boilers and Immersion Heat Exchangers with Heat Transfer Area upto 8 M^2.

Shell and Tube Type Heat Exchangers are designed for use with tubes in the widest possible range of corrosion resistant materials. Shell & Tube Type Heat Exchangers are available with Glass/ Mild Steel (MS)/ Stainless Steel (SS)/ FRP in combination with Glass Tubes as standard. They can be designed for Single Pass or Multi Pass on Tube Side as per clients requirement. The overall heat transfer co-efficient is Shell and Tube Heat Exchanger is about three times higher than in Coil Type Heat Exchangers. Whenever requirement of heat transfer area is high, Shell and Tube Heat Exchanger is the only alternative with Heat Transfer Area upto 26M^2. The pressure drop of coolant in Shell and Tube Heat Exchanger is minimal compared to Approx. 2 kgs in Coil Type Heat Exchanger.

COLUMN COMPONENTS

Column Components provide the optimum solution for every requirement encountered in practice for operations such as Distillation, Rectification, Absorption, Reaction and Extraction because of the wide range of different components available. This applies not only to the various types of column and pipe sections available but also to the wide selection of internals, random and structured packing that can be supplied

HEATING MANTLES & BATHS

Heating Mantles can be supplied in either Flame Proof or Non – Flameproof Type. They are used for the electrical heating of Spherical/ Cylindrical Vessels. Heating Mantles provide a positive alternative to Steam Heating using Boilers or Immersion Heaters. They are fitted with safety cut-out thermostats in order to prevent overheating of the Glass Vessel. Heating Mantles are available upto 300 Ltr. Capacity for Spherical/ Cylindrical Vessel.

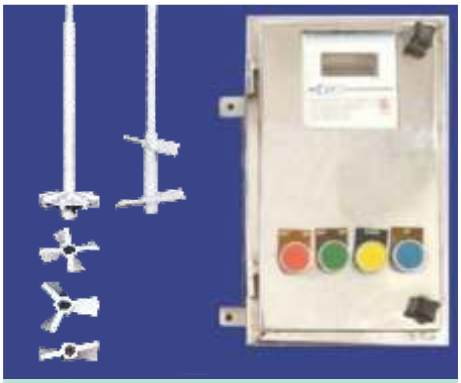
Baths are available in two types such as Heating Bath and Cooling Bath and can be supplied in either Flame Proof or Non – Flameproof Type with Inner Cooling Coil along with Insulation and Cladding. Heating Baths are used for Electrical or Steam Heating of Glass Vessels. Depending upon the temperature requirements, different types of thermic fluids or water can be used as heating media. Whereas Cooling Baths are used for cooling Glass Vessels with Ice Crystals. Baths are available upto 500 Ltr. Capacity for Spherical/ Cylindrical Vessel.

STIRRERS & MOTORS

Stirrer:

Stirrer Assemblies for use with Spherical/ Cylindrical Vessels generally comprises two main components such as a Drive Unit (including Shaft Seal) and a Stirrer Shaft. In addition, a Reducer or Vessel Cover is normally required to connect the Top Neck of the Vessel to the Drive Unit. Special Stirrers in Glass and MS – PTFE can be designed for specific application as per customer requirement.

Variable Speed Drive Units can be supplied with Electric Motors. Shaft Seals are designed to operate either under Vacuum or at Pressure upto the maximum recommended for the Vessel.



Chuck & Seal:

Glass Reducer/ FEP Lined Reducing Flange is required to connect the Chuck & Seal to Top Neck of the Vessel. Bellow Seal is used for atmospheric pressure or upto the pressure permitted into the Glass Vessel. Mechanical Seal is used for high vacuum application.

Chuck & Seal Assembly consists of Chuck, Bellow Seal or Mechanical Seal, Glass Seal Plate, Clamping Plate, Flexible Shaft, Stud, etc.

Motor:

Foot Mounted Flame Proof Motor with reduction Gear Box ratio 1:10 (130 RPM) is supplied as standard. It must, therefore, be mounted on the support structure. A motor is coupled with the gearbox. The other end of the gearbox is coupled with Flexible Shaft. 1:7 (190 RPM) Reduction Gearbox can also be supplied on request. This should be specific at the time of inquiry.

MEASUREMENT AND CONTROL

Measurement and Control equipment complement the component range and helps to ensure that borosilicate glass 3.3 plant and apparatus operates correctly & safely. Non-standard components can also be supplied as per your order.

SIGHT GLASS

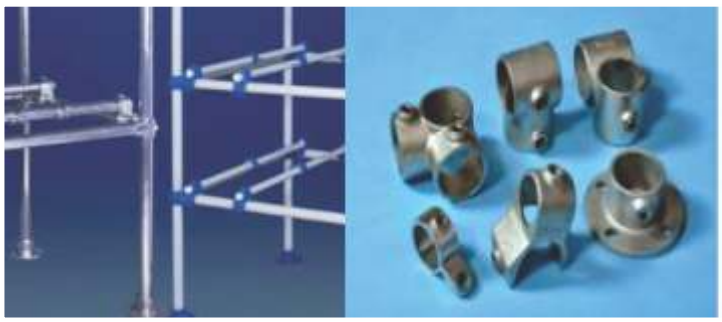
The Sight Glass is a device used between any kind of non-transparent pipeline to observe the flow of liquid. This can be used both in horizontal as well as a vertical pipeline. The sight glass is constructed in such a way that it gives a complete view from every angle.

COUPLINGS & BELLOWS

Couplings are a strong & heavy-duty system that provides maximum reliability with minimum need for maintenance. This is achieved by use of easy to install corrosion resistant gaskets and carefully dimensioned individual parts of the coupling. The material of construction is selected based on the type of products being handled and the atmospheric conditions of the installation area. For GMP application S.S. Coupling with S.S. Nuts – Bolts are used. PTFE Bellows are used to compensate for different thermal movement between the glass and associated equipment, as it absorbs vibrations from associated equipment or foundation. PTFE 'O' Rings are the most widely used Gaskets. They are manufactured from pure, high-quality PTFE and offer almost identical properties corrosion resistance to Borosilicate Glass.

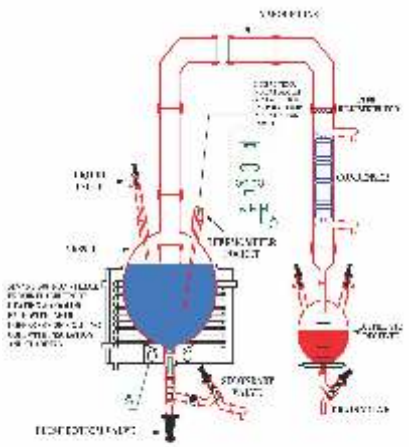
TUBULAR SUPPORTING STRUCTURE

Structure is designed to support plant and other equipment in Borosilicate Glass 3.3 These structures are available in the form of modular system that not only meets standard requirement but also facilitates solutions for problems of unique nature. These structures consist of steel pipes, which are connected using the appropriate fittings. As a result, these structure can be Assembled, Dismantled, Expanded or Modified very easily and quickly. Standard Support is made of G.I. Pipes with C.I. Fittings. For GMP application S.S. 304/ S.S.316 Pipes with S.S. 304/ S.S.316 Fittings are used.

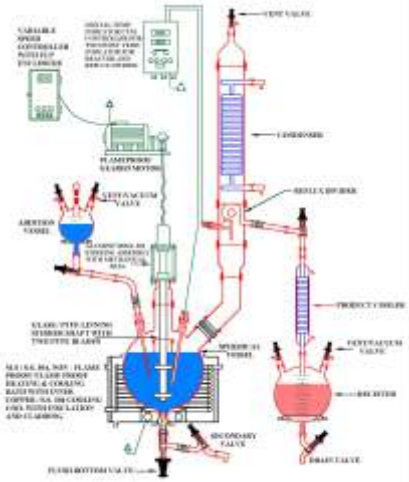


Our Standard Units are equipped with almost all facilities of utilities. All the fundamental and essential features such as Cooling, Heating, Stirring, Condensation, etc. have been incorporated in them in order to serve Multi – Purpose Concept. These units are widely acclaimed and used in R & D Centers, Industries and Educational Institutions.

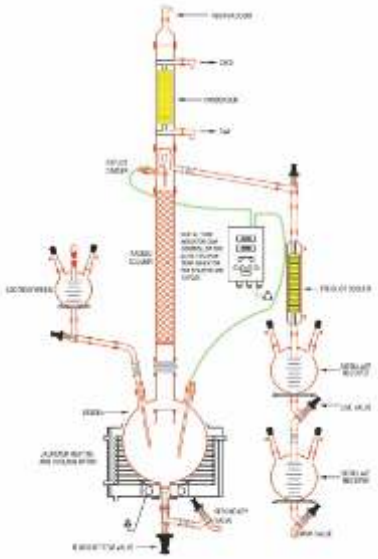
Sulphuric Acid Dilution Unit



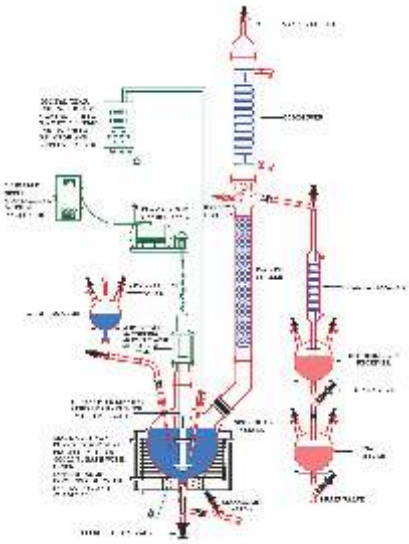
Reaction Distillation Unit



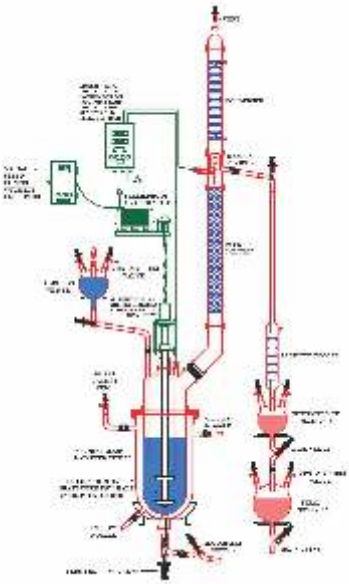
Fractional Distillation Unit



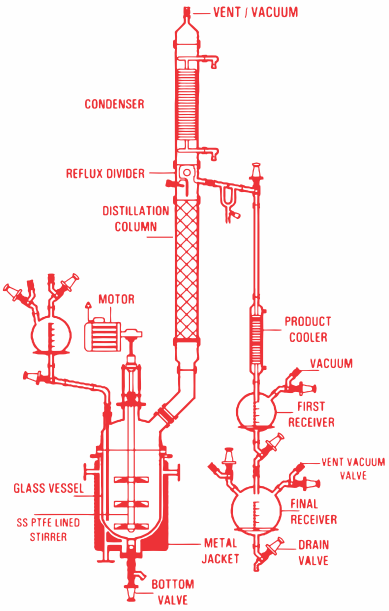
Reflux Reaction cum Distillation Unit



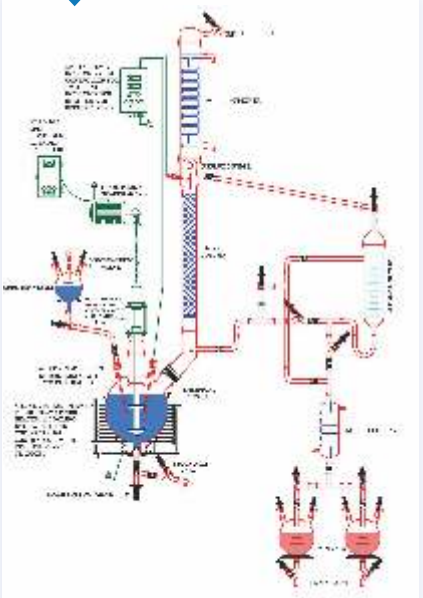
Jacketed Distillation Unit



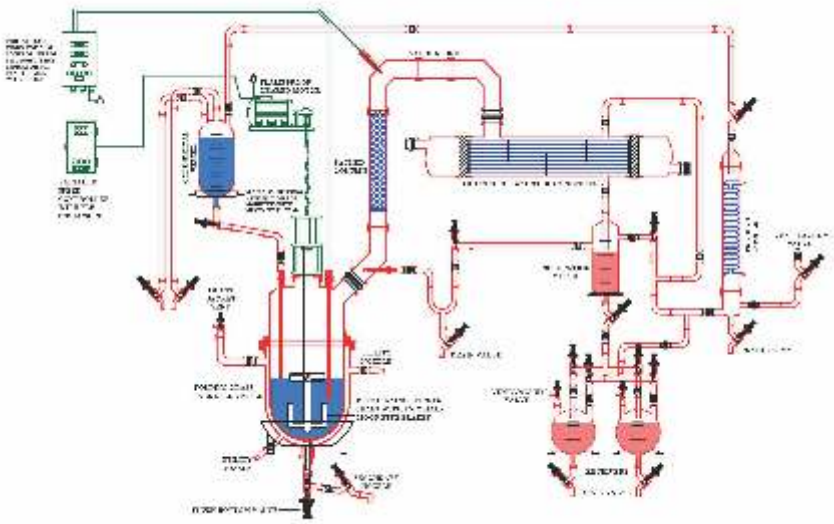
Glass Reactor with Metal Jacket



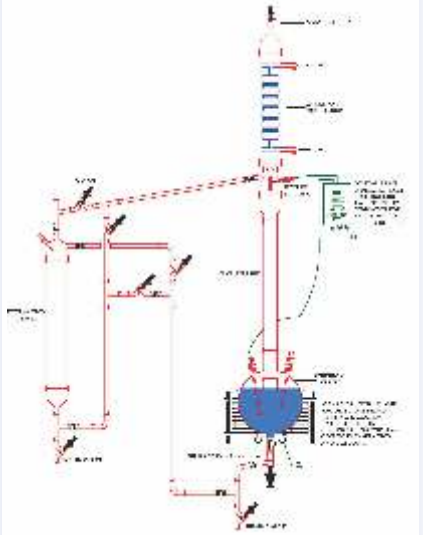
Multi Purpose Distillation Unit



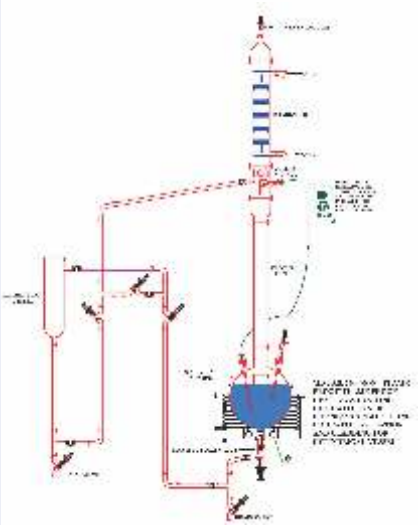
Multipurpose R & D & Kilo Lab Unit



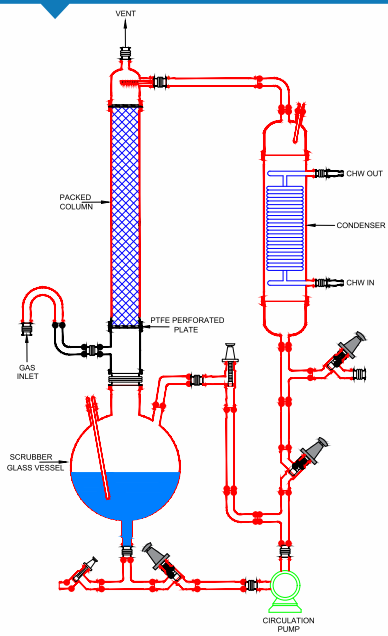
Liquid - Liquid Extraction Unit



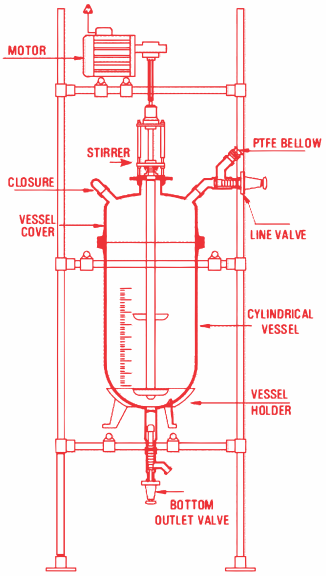
Solid - Liquid Extraction Unit



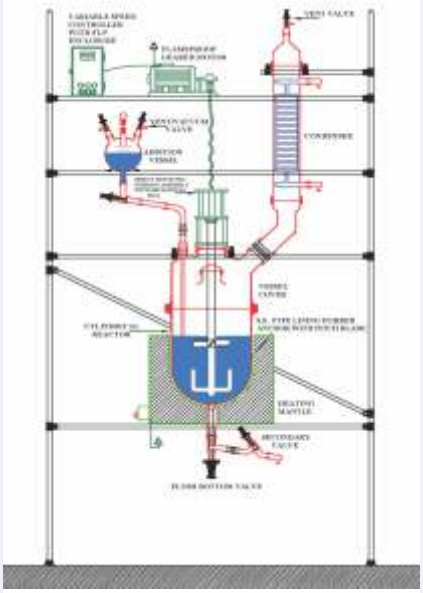
Mobile Gas Scrubber



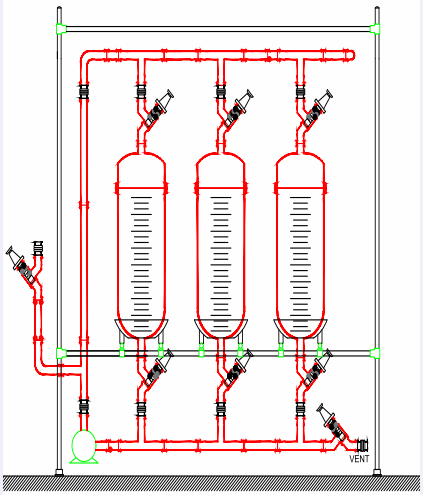
Fixed Mixing Reactor



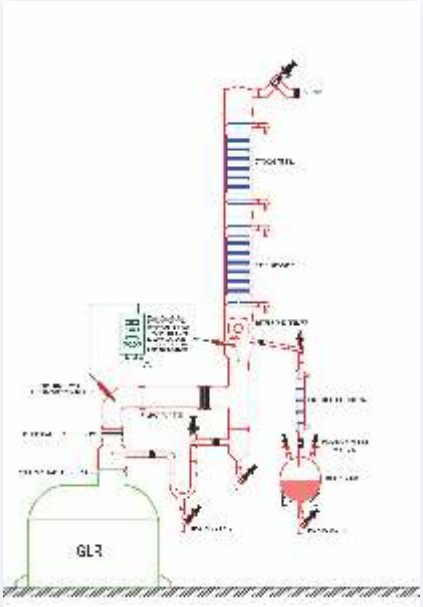
Cylindrical Mixing Reactor with Reflux



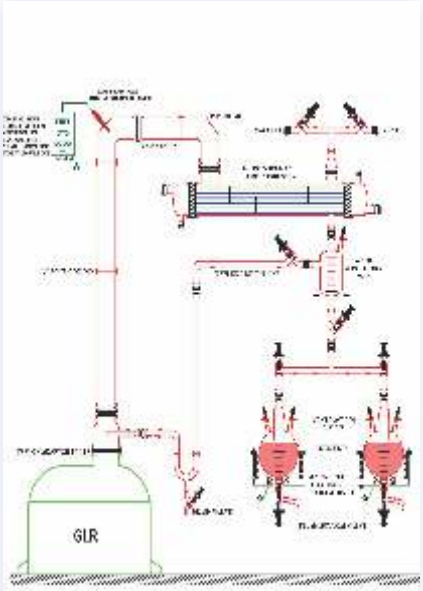
Glass Storage Reactor



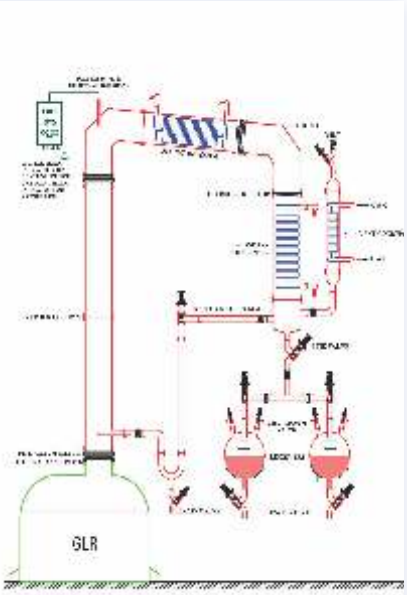
GLR Overhead Distillation Assembly With Dean & Stark Arrangement



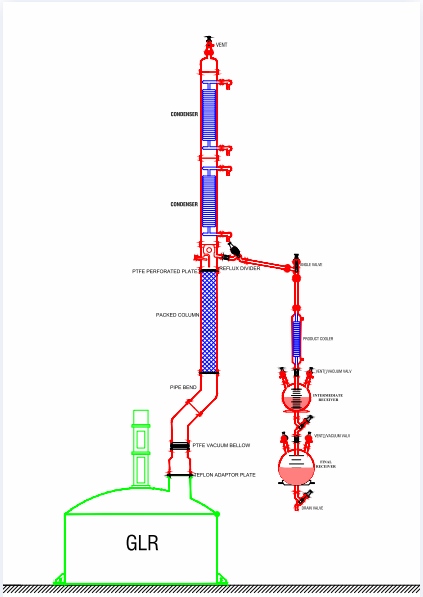
GLR Overhead Distillation Assembly With Shell & Tube Condenser / Reflux Return & Separation



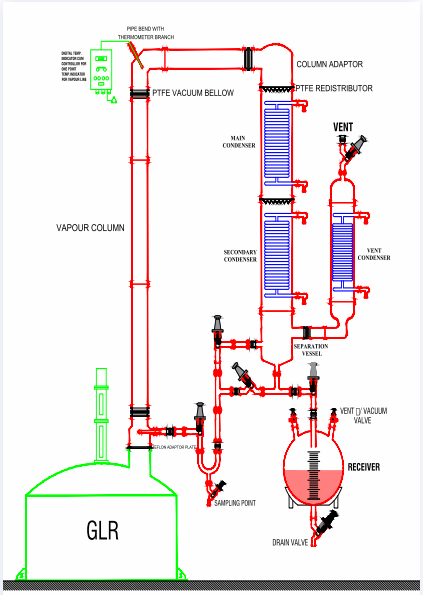
GLR Overhead Distillation Assembly With Vertical And Horizontal / Vent Coil Condenser & Reflux Return Arrangement



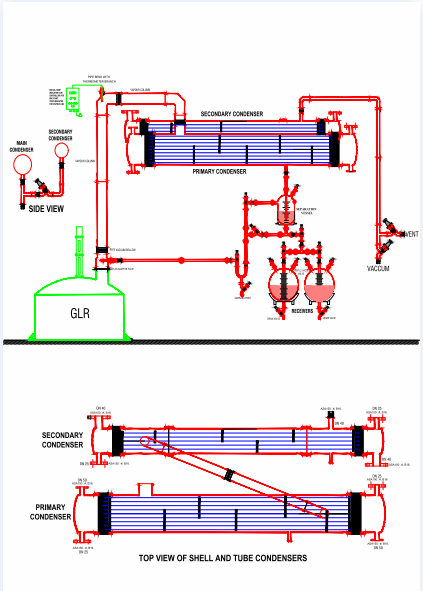
GLR Overhead Distillation Assembly With Coil Condenser / Product Cooler & Receivers



GLR Overhead Distillation Assembly With Vertical / VentCoil Condenser & Reflux Return Arrangement

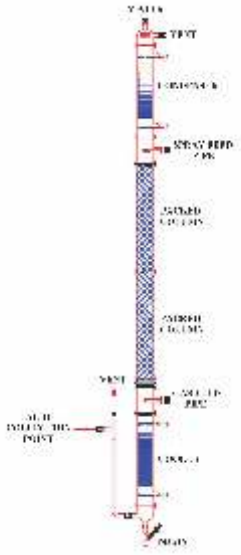


GLR Overhead Distillation Assembly With Primary & Secondary Shell And Tube Condensers Along with Upper And Lower Layer Separation Arrangement

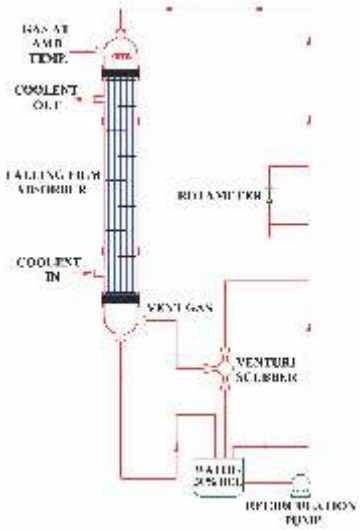


We deliver Process Packages in four major stages from initiation to completion which include Designing, Engineering, Supply, Installation and Commissioning. In addition, as optional we also provide the same on Turnkey basis as well with Complete Packaged Instrumentation. Based on our vast experience of over three decades we strive to continuously bring new innovation in these packages to make them more efficient.
We guarantee performance based on actual process parameters required by clients.

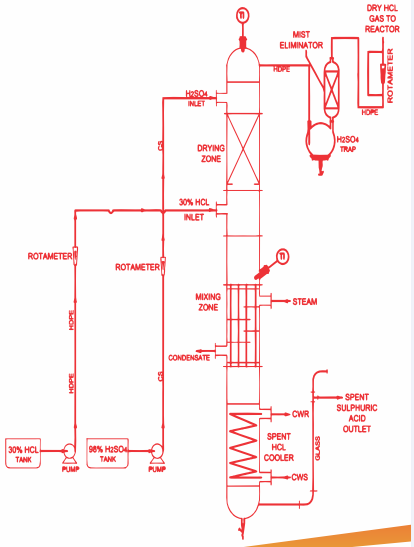
HCL Gas Absorber Adiabatic Type



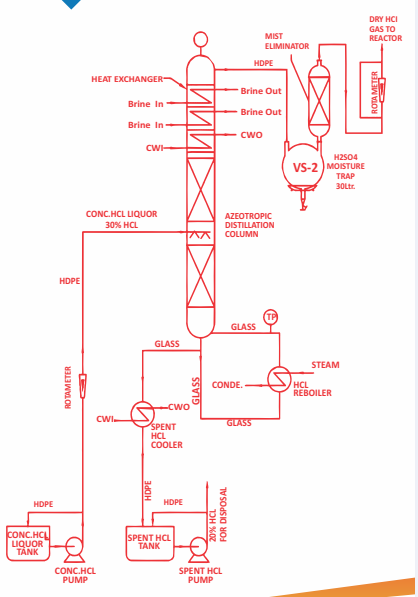
HCL Gas Absorber Falling Film Type



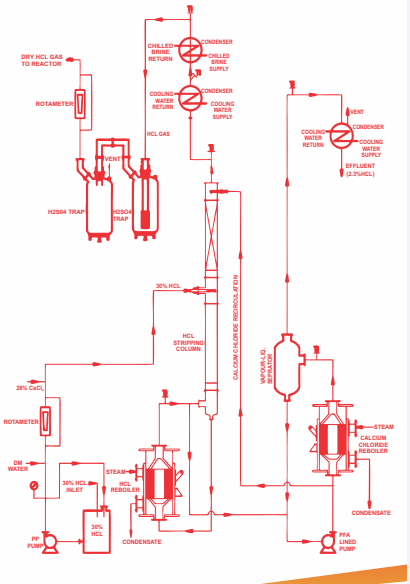
HCL Gas Generation Unit (Sulphuric Route)



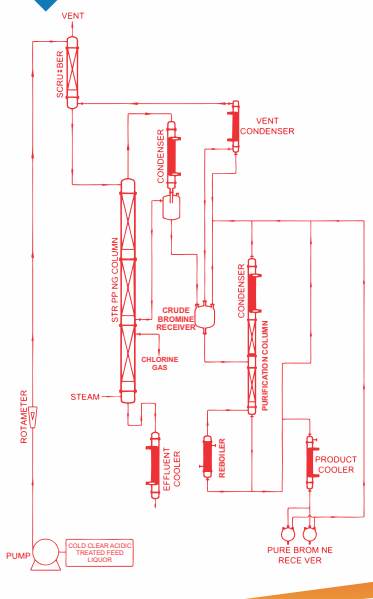
HCL Gas Generation Unit (Boiling Route)



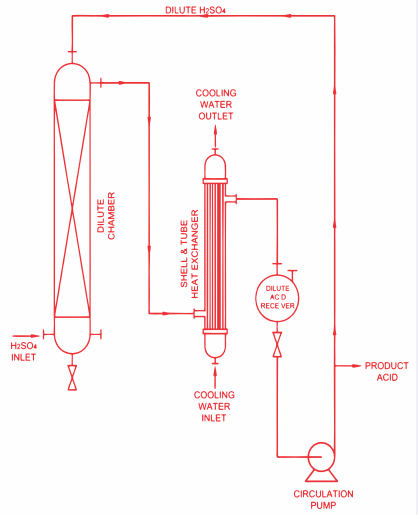
HCL Gas Generation Unit (Calcium Chloride Route)



Bromine Recovery Plant



Sulphuric Acid Dilution Unit

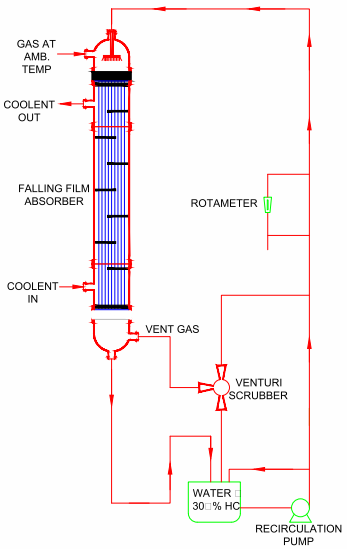


Rotary Film Evaporators

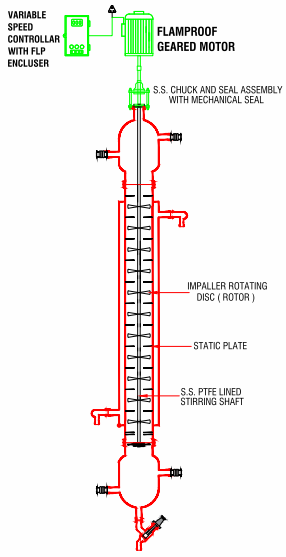
Rotary Film Evaporators

Wiped Film Evaporator

Falling Film Evaporator



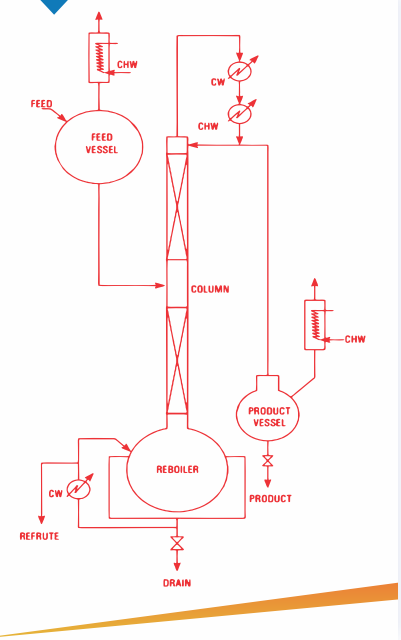
Extractors



Bench Scale Reaction Unit (with Hand Lift)

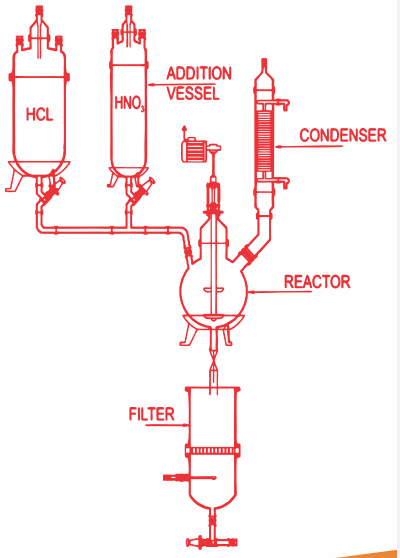
Bench Scale Reaction Unit + Filter + Hand Lift

Solvent Recovery



Glass Nutsche Filter with DistillationSetup

Precious Metal Refining

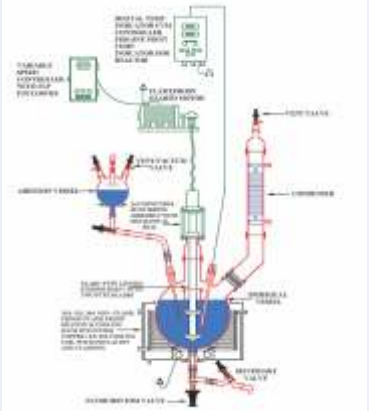


Glass Mixer Settler

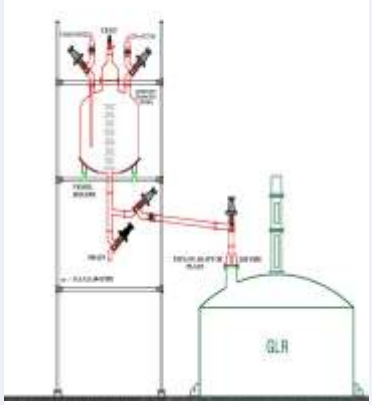
Heating Cooling System

Innovation lies at the core of all Garg Sci-Tech's products. Besides manufacturing our Standard Glass Assemblies, we also have expertise in producing Borosilicate Glass Assemblies as per customer's requirement. For any Components/ Assemblies which are not in scope of our Standard Production, we can fabricate the same as per required Sketch or Sample. These are exclusively tailor made as per client's process needs with valuable inputs from our highly efficient technical and production team.

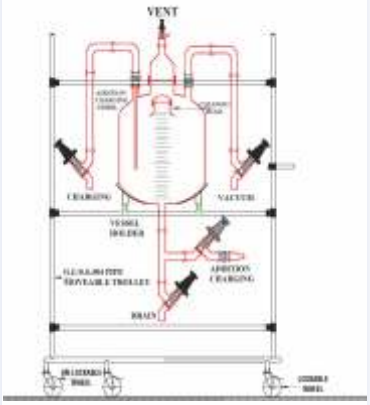
Reaction Unit with Reflux Arrangement with Spherical / Cylindrical Vessel



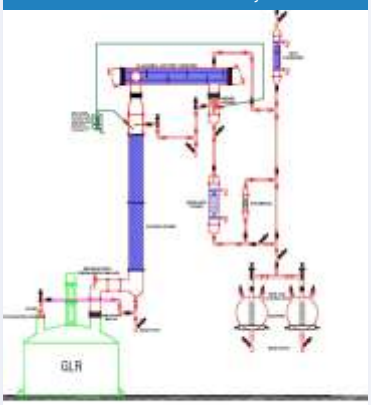
Cylindrical / Spherical Graduated Addition Vessel Assembly Mounted on GLR



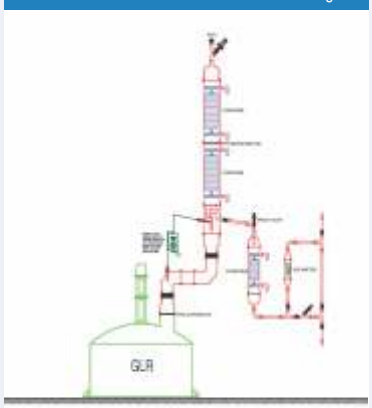
Cylindrical / Spherical Graduated Moveable Addition Vessel Assembly



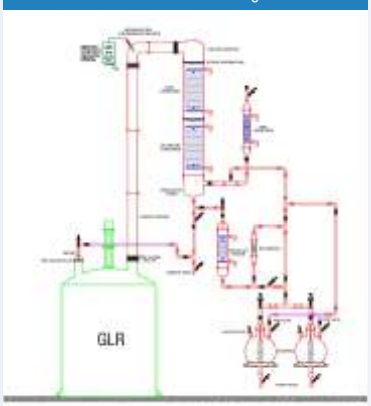
GLR Overhead Rectification Distillation Assembly



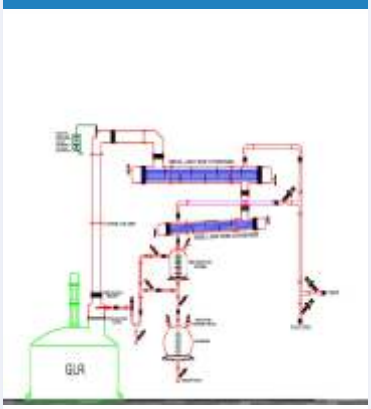
GLR Overhead Assembly Boiling Under Reflux & Distillation with Coil Heat Exchanger



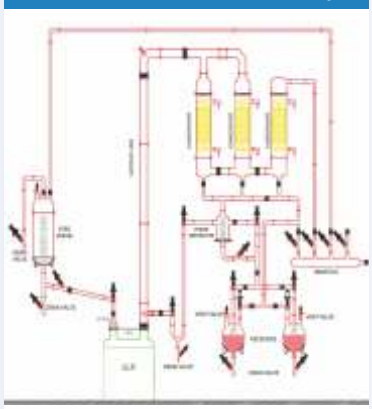
GLR Overhead Vacuum Distillation Assembly with Coil Heat Exchanger



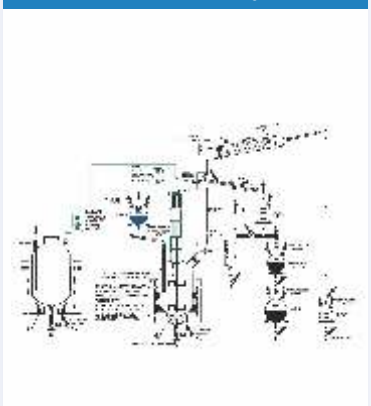
GLR Overhead Glass Multipurpose Assembly



GLR Overhead Assembly Boiling Under Reflux & Distillation with Coil Heat Exchanger



GLR Overhead Vacuum Distillation Assembly with Coil Heat Exchanger



1) Engineering & Design of Plants:

- We will guide your company to the successful completion of engineering design projects. Our experienced and professional employees can provide solutions adapted to your needs.
- A thorough study of drawing is carried out and Bill of material is verified before commencing the installation activity.
- Our Engineers can work alone or alongside your plant engineering staff. This can help in reducing time, cost & assist knowledge transfer.
- Critical inspections are carried out progressive stages to ensure compliance with client's requirements.

2) Installation & Inspection:

- Use of Superior quality raw material, good manufacturing practices & performance testing of individual components is done at our end to ensure minimum problems during commissioning at site of the customer. Our team of experienced personnel ensure hassle free installations of plants at site and deliver running trials to the satisfaction of the customer.
- Training to the technical staff at the customer's plant is imparted to ensure that smooth operations of the plants or systems can start with immediate effect.
- We have a well-versed and experienced team to carry out a large installation and commissioning works.
- We carry out installation and commissioning at Manufacturing Sectors, Chemical Plants, Pharmaceutical, Food & Beverage Industries, etc.
- We have an exclusive facility to provide and manufacture spares that are not standard or not easily available in the market.

3) Upgrades & Modernization:

- Technology and customer needs are changing rapidly. Equipment that was state-of-the-art twenty years ago will no longer be optimal. Our modernization services help you get the most out of technical progress by upgrading your existing plants and machines to improve both productivity and product quality.
- We will be providing consulting support and carry out modernization projects, including capacity calculations, plant simulations, new treatment processes and rinses, and automation system upgrades.

4) Assembly Testing of Pilot Plants:

- Garg Sci-Tech maintains a full-fledged Assembly Testing Facility for Standard Pressure/ Vacuum & Agitators. We offer a state-of-art setup for mechanical seal and testing and also provide lab scale and pilot scale system for product trails and scale up.

5) Onsite Maintenance & After Sales Service:

- Even after a project is completed, we provide a variety of after-sales services to ensure trouble-free, safe and efficient operation of the Process Plants and Kilo Labs Systems which we deliver. Our Team is always available to offer Technical Support and Services to our customers to ensure that their plant runs smoothly.

6) Custom Glass Blowing:

- We manufacture a wide range of glass blowing products including Interchangeable Glassware, Laboratory and Industrial Glassware. We specialize in the design and manufacture of custom glassware to customer specifications.

Your Concept Our Creation

Tested & Trusted Partner For All Your Glass Assemblies

भारत सरकार
Government of India
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

उद्योग आधार Udyog Aadhaar

MSME

A

Udyog Aadhaar Registration Certificate

भारत सरकार
Government Of India
वाणिज्य और उद्योग मंत्रालय
MINISTRY OF COMMERCE AND INDUSTRY
O/o Additional Director General of Foreign Trade
संयुक्त महानिदेशक विदेश व्यापार का कार्यालय
CZO Office, New Building, SE wing Mumbai-400020
CERTIFICATE OF IMPORTER-EXPORTER CODE (IEC)

1. नाम/User Name	GARG SCI-TECH GLASS (INDIA) PRIVATE LIMITED
2. पता/Address	GALA NO.6,UNIT NO.4,SURVEY NO. 23 ED STATE,SAGPADA ROAD VASAI EAST THANE MAHARASHTRA-401208
3. उक्त फार्मक का नाम, पदनाम/Name and Designation of the signatory applicant	ANIL KUMAR GARG DIRECTOR
4. शाखा/प्रभाग का पता,हो तो/Address of the Branch/Div./Unit if any	Branches Nil
5. आईईसी संख्या IEC Number	0311081300
6. जारी करने की तारीख/Date of Issue	06.03.2012
7. स्थाई खाता सं.(पैन)/PAN	AABCG1370Q

स्थान /Place: VASAI EAST

तारीख /Date : 15.09.2018

System generated IEC certificate

SMCS

Certificate of Registration

GARG SCI - TECH GLASS (INDIA) PVT. LTD.

Certify that the management system of the above organisation has been audited and found to be in accordance with requirements of standard detailed below.

ISO 9001:2015

(QUALITY MANAGEMENT SYSTEM)

MANUFACTURER, IMPORTER AND EXPORTER OF SCIENTIFIC, INDUSTRIAL & LABORATORY GLASS WARES, PLASTIC WARES, TEFLON WARES, METAL WARES, PORCELAIN WARES, RUBBER AND SILICON PRODUCTS, ALL TYPE OF SCIENTIFIC INSTRUMENTS AND EQUIPMENTS

Certificate No. : QMS20170015

This certification was conducted in accordance with the SM Certification Services auditing and certification procedures and is subject to regular surveillance audits.

Certificate Issue Date : 10th August 2017
Date of Initial Registration : 10th August 2017
1st Surveillance Due : 10th August 2018
Certificate Expiry Date : 9th August 2020
Re-Certification Period : 3 Years
2nd Surveillance Due : 10th August 2019

Further clarification regarding the scope of this certification of ISO 9001:2015 requirements may be obtained by consulting

To Check the Certificate validity please refer Web.: www.smcertificationservices.com

SMCS

AIAD-RAB QMS ACCREDITED

System Certification Manager

SM CERTIFICATION SERVICES

CLIENTS

GARG GLASS - INDIA

Aarti Drugs Ltd

AARTI INDUSTRIES LIMITED

ajanta pharma limited

ALIVIRA

ALKEM

AUROBINDO

BASF The Chemical Company

Biocon

Cipla

FDC

fleming

glenmark

GVK BIO

Pfizer Hospira

INDO AMINES LIMITED

INDOCO REMEDIES LTD.

Inogent

JUBILANT LIFESCIENCES

kores

LOBA Chemie

LUPIN

MAC-CHEM

MACLEODS

MERCK

Piramal

P&G Procter&Gamble

RALLIS INDIA LIMITED A TATA Enterprise

RANBAXY LABORATORIES LIMITED

DR. REDDY'S

Reliance LIFE SCIENCES

Sequent Proven Ability in Life Science

SIGMA-ALDRICH

SUDARSHAN

SUN PHARMA

TEVA

UNICHEM LABORATORIES LTD.

UNITED PHOSPHORUS LIMITED

USV Private Limited

Watson

WOCKHARDT

GARG
GLASS - INDIA

GARG SCI – TECH GLASS (INDIA) PVT. LTD.

Administrative Office & Work

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Off Kaman Bhiwandi Highway, Behind Bhajanlal Dairy, Taluka – Vasai, Vasai (east),
District – Palghar, Maharashtra – 401208 (India)
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MAKE IN INDIA

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