





About Us

Envisol

A part of Arvind Limited

Our Business is Water

Arvind Limited, a part of the \$1.7 billion Lalbhai Group was incorporated in 1931 and is in the businesses of Textiles – fabric & garment manufacturing , Branded apparel & Retail , Environment Solutions, Agriculture, Engineering and Real Estate.

Established in 2011, Arvind Envisol has witnessed strong pull from Indian and international market over last few years

AEL is a world class water management company providing end to end solutions for water treatment, industrial waste water treatment, sewage treatment, desalination and **Zero Liquid Discharge (ZLD)** solutions at minimal costs.



100+

Million Litres water
and waste water
processed per day



150+

Projects executed
till date



38

Registered Patents
across the globe



END TO END

Offerings in the entire water
chain



STRONG

Pre Qualification
References

Our Vision

Provide sustainable environment solutions



To become the most preferred organization for all stakeholders by **providing the best sustainable solutions** in the field of water and wastewater treatment and **zero liquid discharge**, making world a better place to live in.



Provide **leading edge technology** and value-added convergent solutions.



Develop and deliver the best, cost effective and reliable solutions **maximising value for our customers**



Invest, collaborate and partner to develop new ideas and technologies that will enhance the future



Provide **best working environment** to our employees and vendor partners. Cultivate a **high performance people culture**.



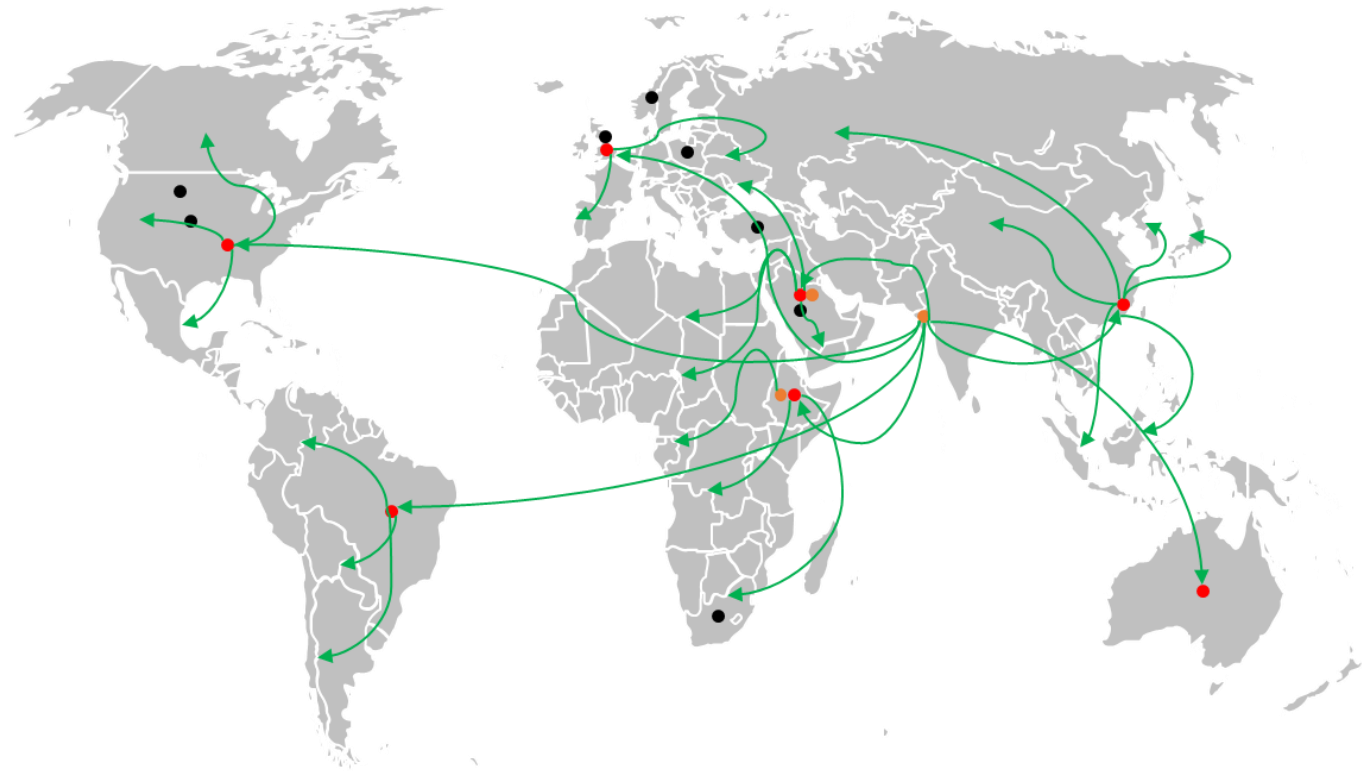
Create **wealth for our shareholders**

Envisol has a global footprint with a modern supply chain and offices spread across 6 continents

National footprint



Global footprint



● Offices / Partner locations ● Warehouse ● Manufacturing

In order to cater to different need segments, Envisol has organized itself into 3 verticals

Infra Practice



- Projects on EPC as well as on BOOT basis
- Sectors include:
 - Municipal
 - Industrial
 - Desalination
 - Drinking water
 - Hi-purity water

Design, Service & Support (DSS) Practice



- Offerings to clients and partner OEMs through in-house brand
- Products and services include:
 - Components
 - Consumables & Spares
 - O&M / AMC
 - Retrofitting

Knowledge Practice



- Niche services offered to customers / Analytics
- Services include:
 - Consulting
 - Training
 - Collaboration & Research



Textiles



Pharma



F&B



Chemicals



Oil & Gas

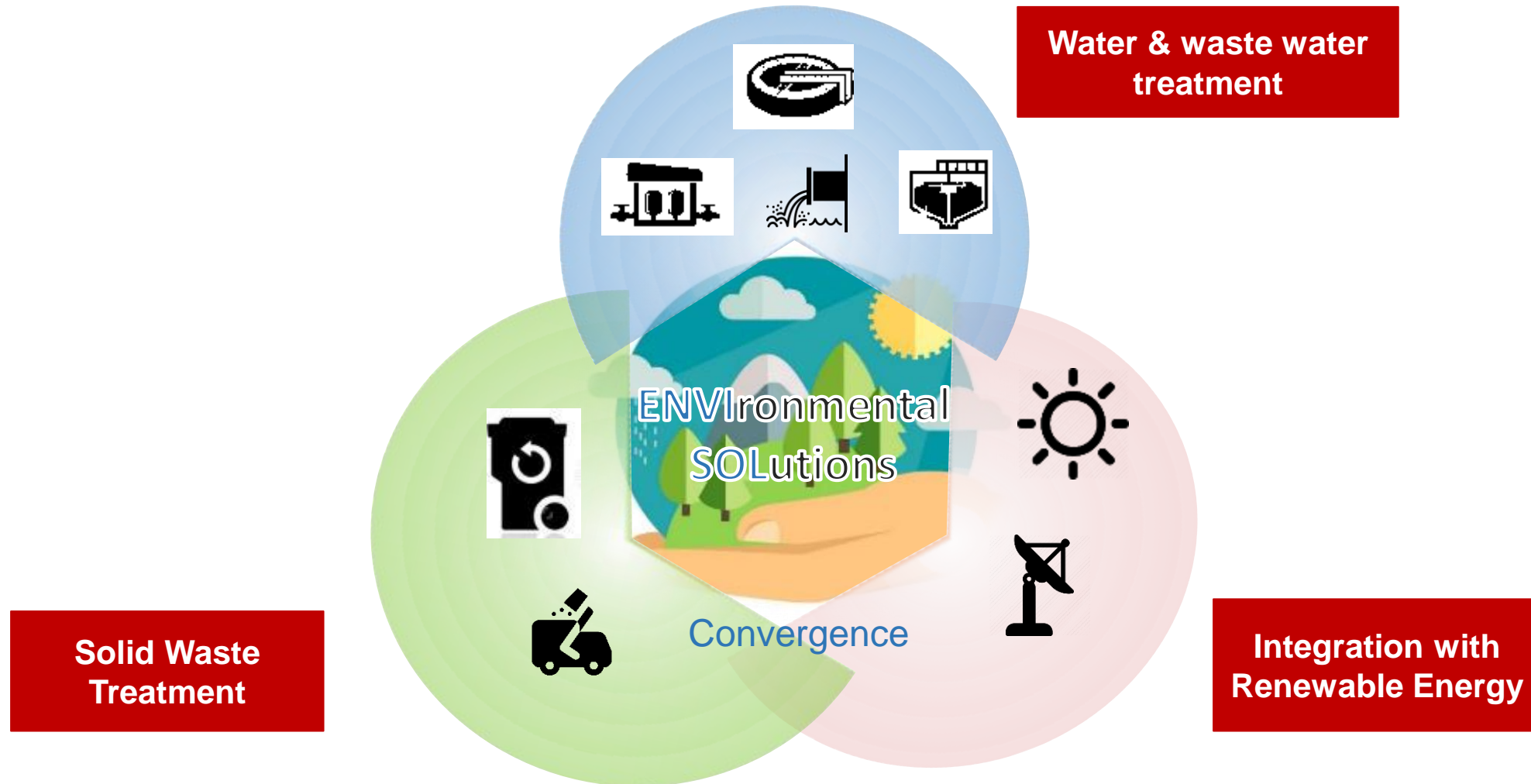


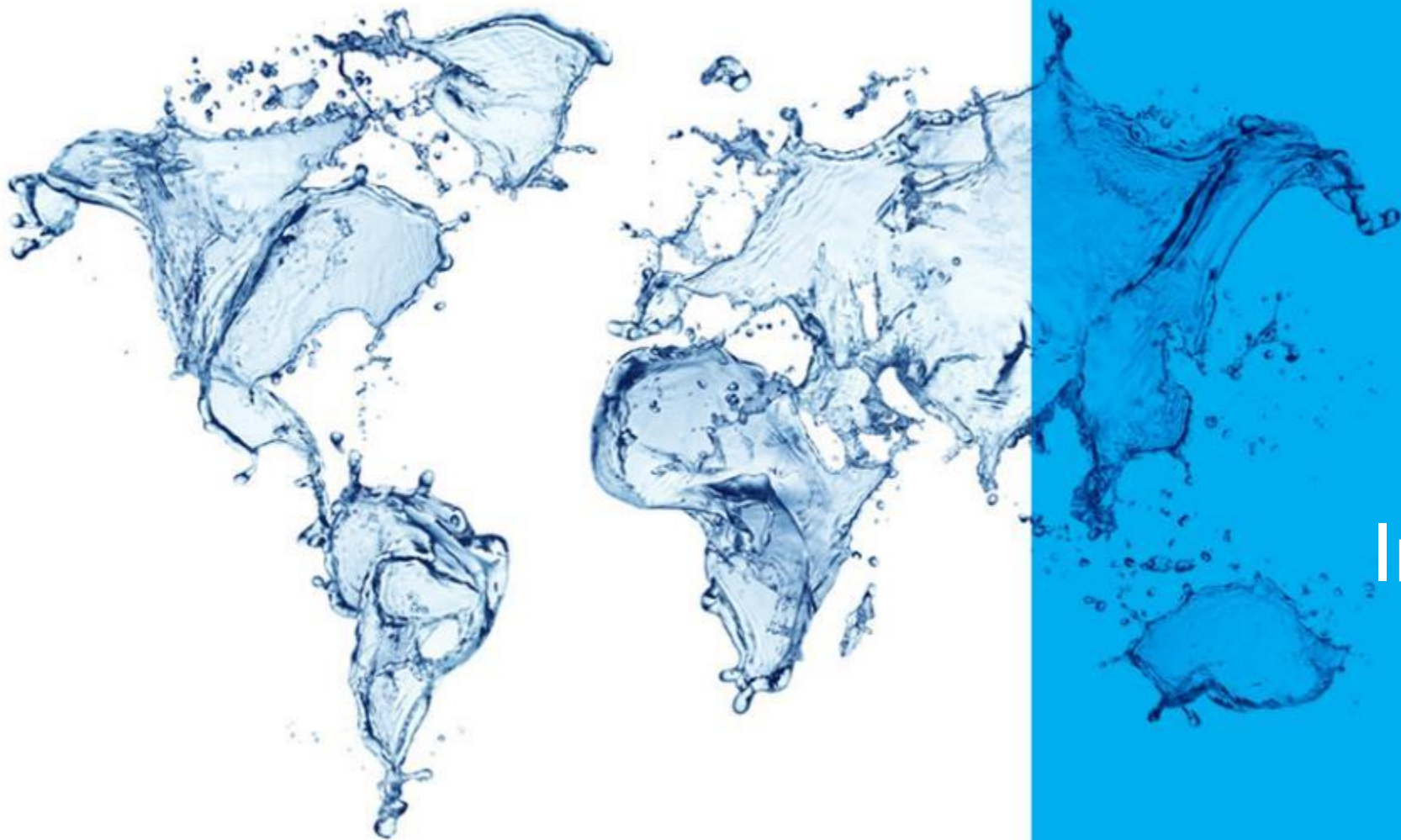
Automobiles

..& Other Industries

The three verticals offer solutions across water, waste water, solid waste and emission problems employing clean energy

Convergence Approach

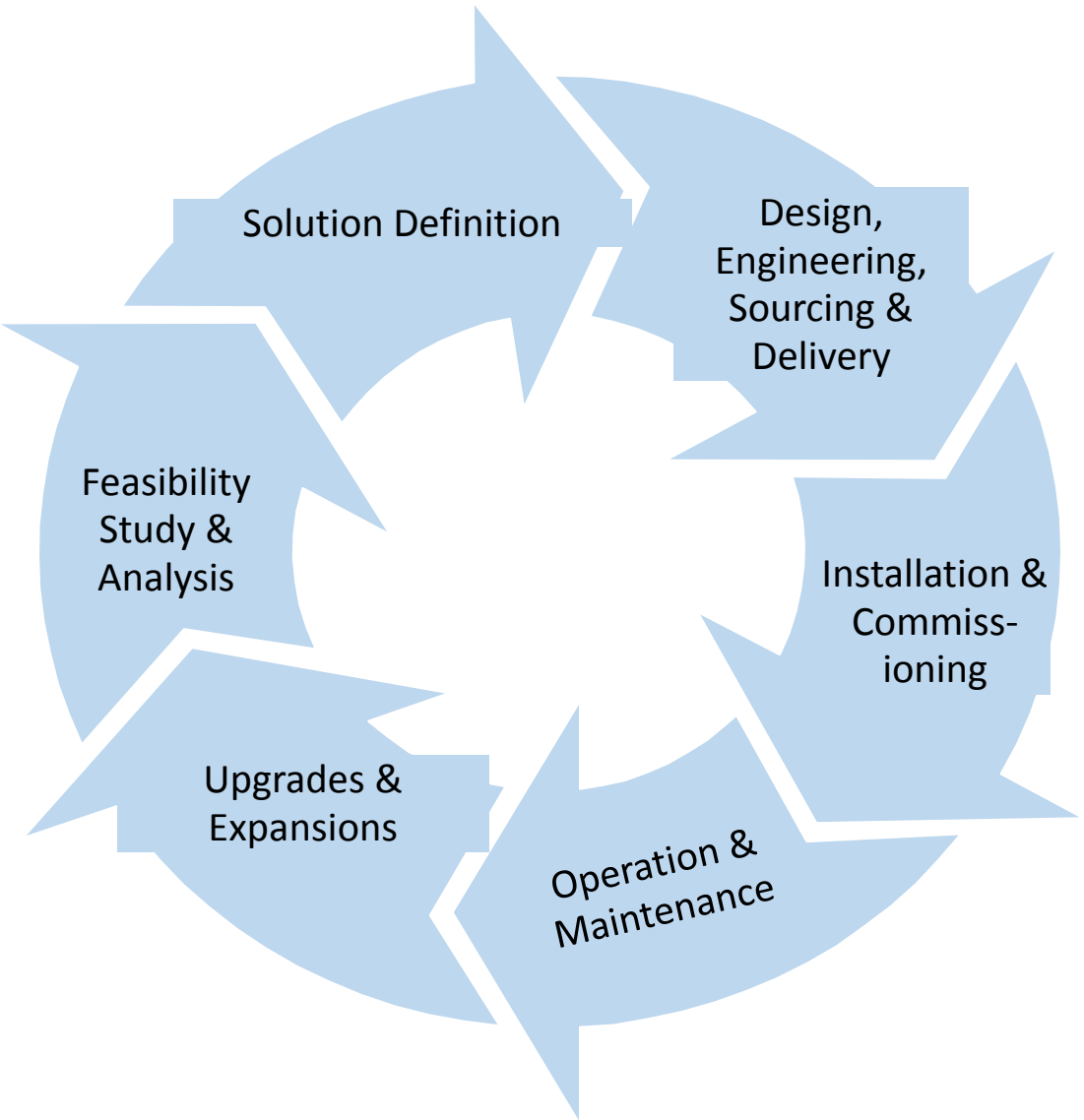




Envisol

Infra Practice

Turnkey EPC Projects – we enable sustainable operations



Sustainable Outcome

	CUSTOMERS Clean, efficient operations and high return on investment
	SUPPLIERS We build partnerships with our supplies on long term basis
	EMPLOYEES Meaningful and rewarding jobs
	SOCIETY Improved resource efficiency, clean environment, prosperity
	SHAREHOLDERS Investing in a responsible company
	ECOLOGICAL FOOTPRINT Technologies with low impact

Technological Capabilities (1/3)

Primary treatment

To remove physical impurities like suspended solids, oil and colour



Clarifiers and Clariflocculators



Tube settlers/parallel plate separators



High rate solid contact clarifiers



Dissolved air floatation (DAF)



Electro Coagulation



Pipe floccuator

Secondary treatment (Biological Processes)

Degrading organic material present in waste water/reducing the BOD and COD



Activated Sludge Process (ASP)



Extended Aeration system (EAS)



Upflow Anaerobic sludge blanket reactor (UASB)



Sequential Batch Reactor (SBR)



Moving Bed Bio Reactor (MBBR)



Membrane Bio reactor (MBR)

Technological Capabilities (2/3)

Filtration system



Mircon Cartridge Filtration (MCF)



Micron Disc Filtration (MDF)



Activated carbon filter (ACF) and Media Filters



Ultra filtration (UF)

Membrane based TDS reduction



Nano filtration (NF)



Reverse Osmosis (RO) – spiral



Reverse Osmosis (RO) – disc



Forward Osmosis (FO) System

Advanced Oxidation



Ozonation



Envi_Oxy system

Technological Capabilities (3/3)

Evaporation Technologies



- Mechanical Vapor Recompression (MVR)
- Multi Effect Distillation (MED)



- Multi Effect Evaporators (MEE) and Crystallizers



Multi Stage Flash (MSF) Evaporators



Agitated Thin Film Dryer (ATFD)

Sludge Management Technologies



Sludge Digester



Incinerator



Screw Press



Centrifuge



Filter Press



Belt Press

Installation Reference



11 MLD Zero Liquid Discharge Plant at Hawassa Industrial Park, Ethiopia

Recommendations



CCECC ETHIOPIA CONSTRUCTION P.L.C.

Ref. No. : CCECC/ETHIO-HIP/ED/2016-048

Date: 30th September, 2016

Arvind Envisol Private Limited,
Hawassa, Ethiopia

"TO WHOMSOEVER IT MAY CONCERN"

This is to certify that **M/s. Arvind Envisol Private Ltd.**, India, has done the Design, Engineering, Construction, Supply, Installation, Testing and Commissioning, of our 11 MLD capacity Textile and Sewage Waste Water Treatment Plant for our Hawassa Industrial Park Project, Ethiopia based on recycling and Zero Liquid Discharge (ZLD) technology with its project value of \$ 11,160,000 (USD Eleven million and one sixty thousand dollars) including Erection & Commissioning.

The Sewage Treatment Plant of the aforesaid Zero Liquid Discharge System with processing capacity of 3000 m3/day was handed over to us on 30th September 2016, to our satisfaction.

Zhu Lei
Project Manager
CCECC Ethiopia Construction P.L.C.

BALOTRA WATER POLLUTION CONTROL TREATMENT & RESEARCH FOUNDATION TRUST

ROOPCHAND SALECHA
Chairman
Mob. : +91-9414108111,
+91-9772205771
e-mail : navkartex@gmail.com



JUGAL KISHORE SINGHAL
Secretary
Mob. : +91-9414270879
+91-9672975776

No. CETP/2016/5748

Date: 2/6/2016

TO WHOM SOEVER IT MAY CONCERN

This is to certify that water treatment plant (RO Plant of capacity – 6MLD UF + 6 MLD RO) has been successfully designed. Supplied and installed by Arvind Envisol Pvt Ltd.

The system is also commissioned and working continuously since 1st May 2016.

The system is now under an O & M contract since 01st May, 2016 for two years with Arvind Envisol Pvt Ltd.

We are satisfied with their support, services and wish them success in their endeavors.

अध्यक्ष
बालोत्रा वाटर पोल्यूशन कंट्रोल
ट्रीटमेंट एण्ड रिसर्च फाउण्डेशन ट्रस्ट
बालोत्रा जिला, भारत



TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s.Ipca Laboratory Ratlam had Awarded the Contract to M/s.Arvind Envisol PVT Ltd, Ahmedabad for Design, Engineering, Procurement, Supply, Testing, Installation & Commissioning of MVRE Plant. The Capacity of MVRE Plant is designed at 400 KLD as feed.

The Project has been recently installed and commissioned by M/s.Arvind Envisol PVT Ltd.

We are satisfied with their support Services and wish them success in their Endeavors.

Thanking You

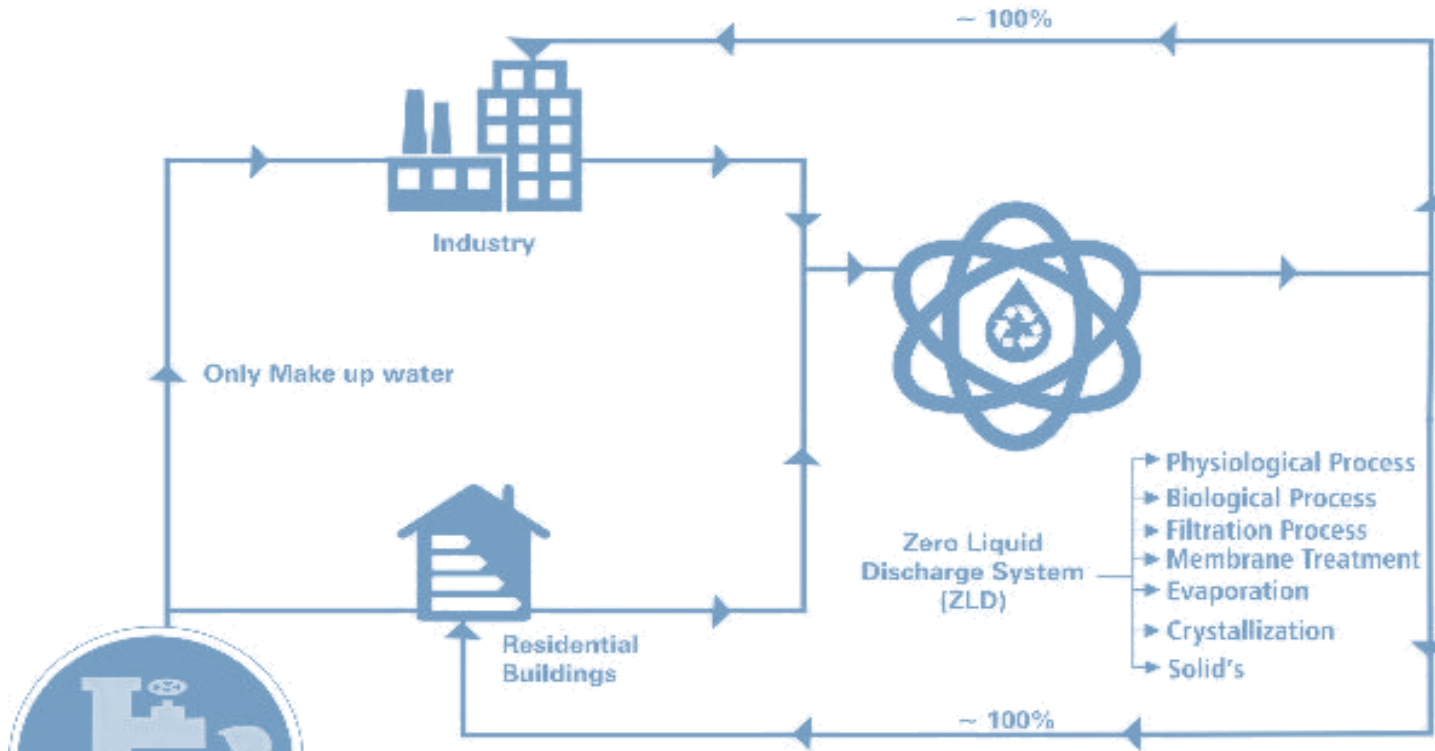
Your faithfully

For IPCA Laboratory

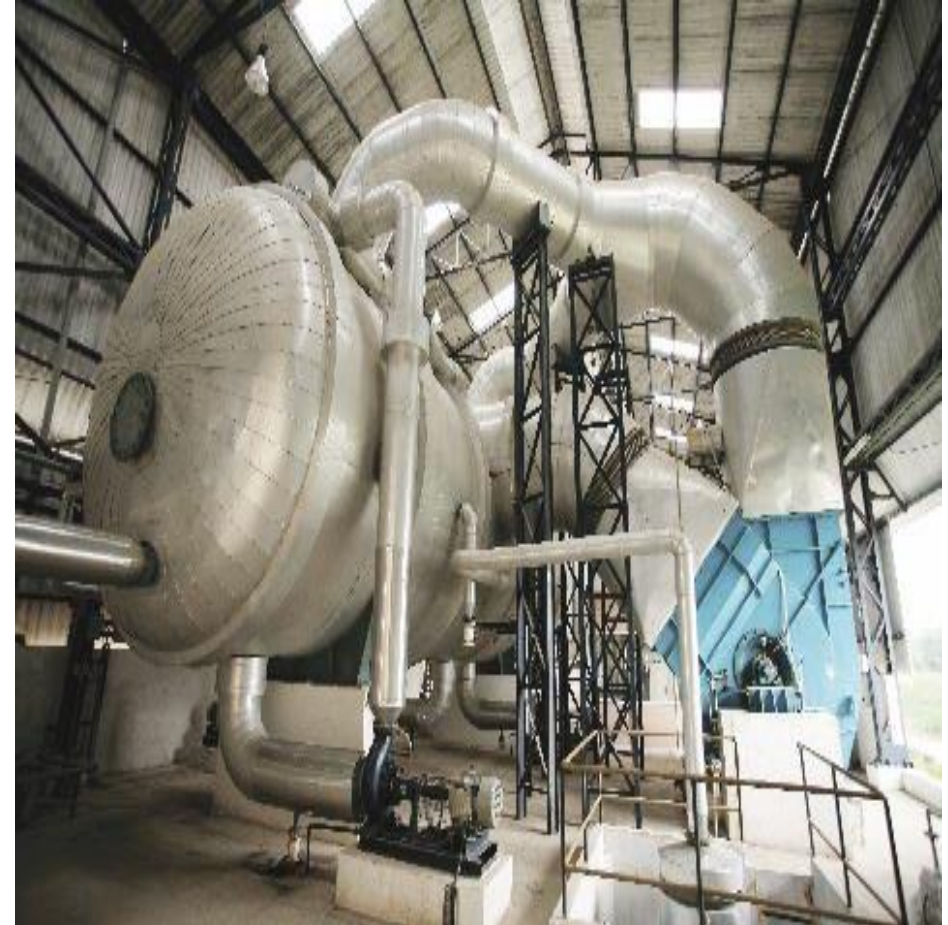
Manoj Kumar Mittal
Vice President (Corp.) EHS

Zero Liquid Discharge

Envisol's heart drum to purify and recycle waste water through patented technologies



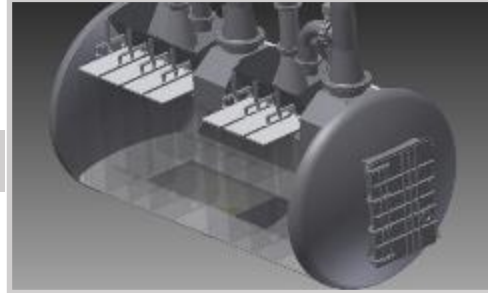
ZLD is a water treatment process in which all waste water is purified and recycled leaving zero discharge at the end of treatment cycle.



Ground Water

Patented Technology – Polymeric MVRE

Patented heat transfer polymer element enables efficient heat transfer at lower temperatures Improves efficiency and uses MVRE for reduction of costs and maintenance

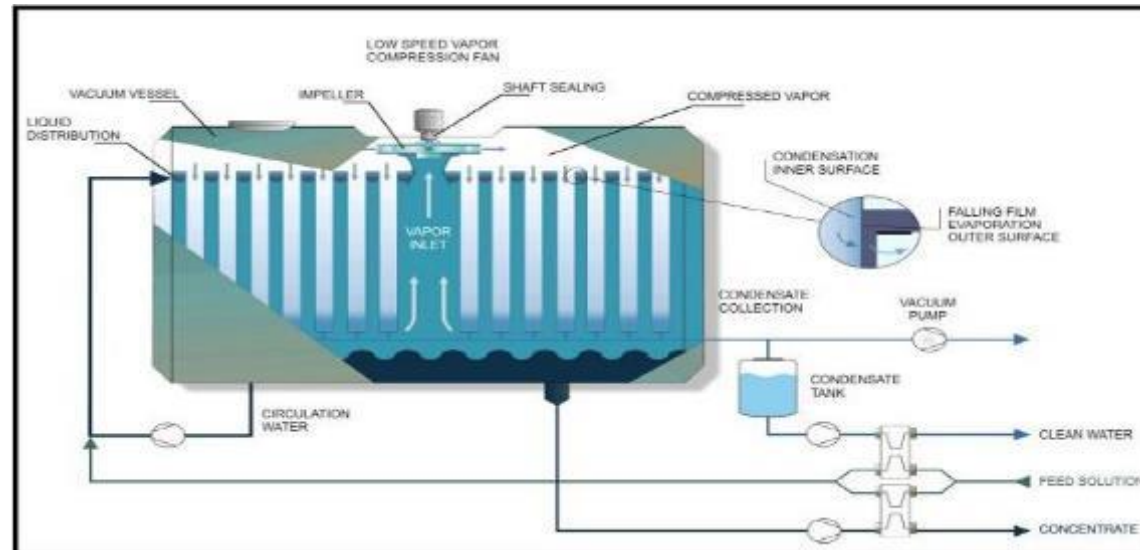


The Evaporation Module



Cassette

MVR Fan-Heart of the system

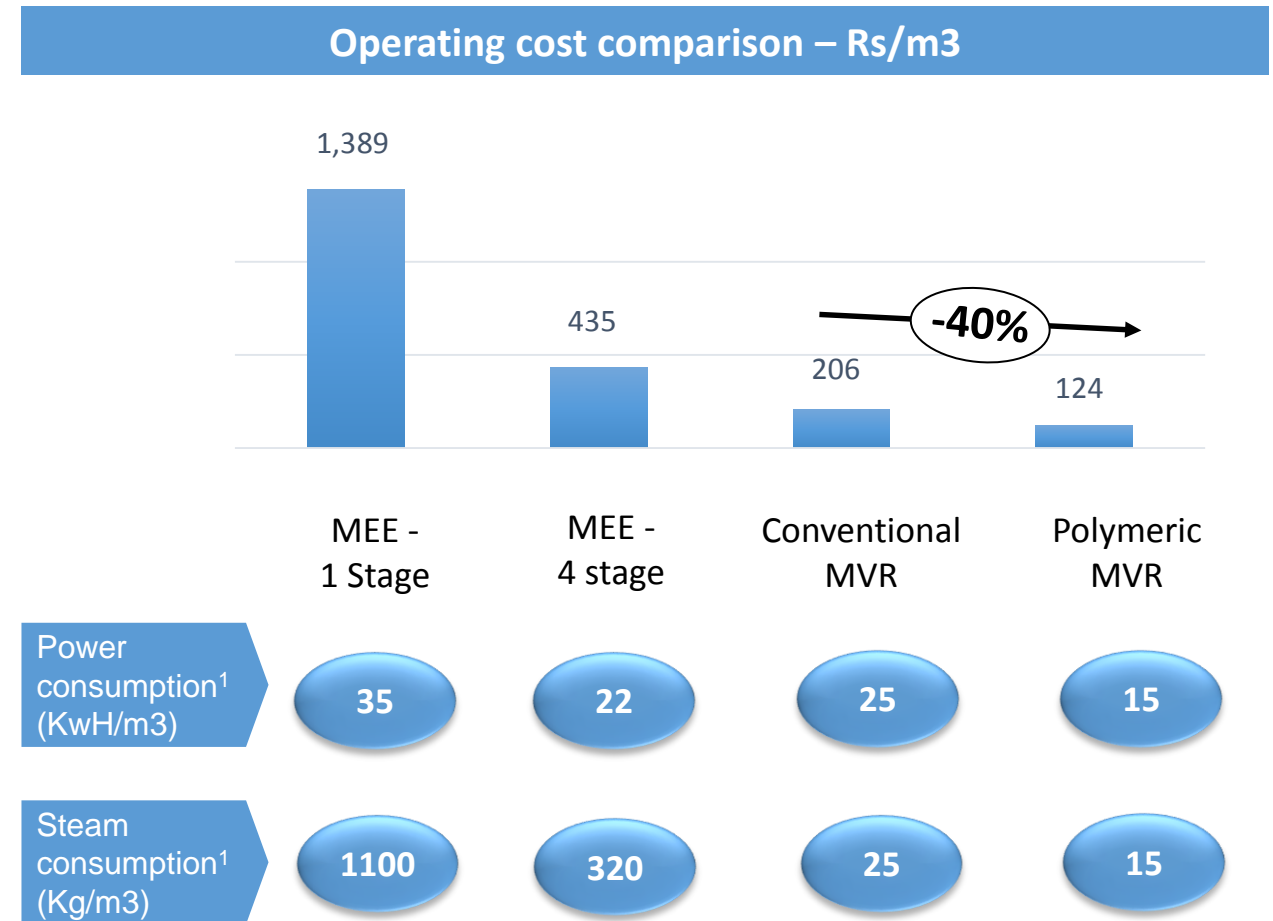
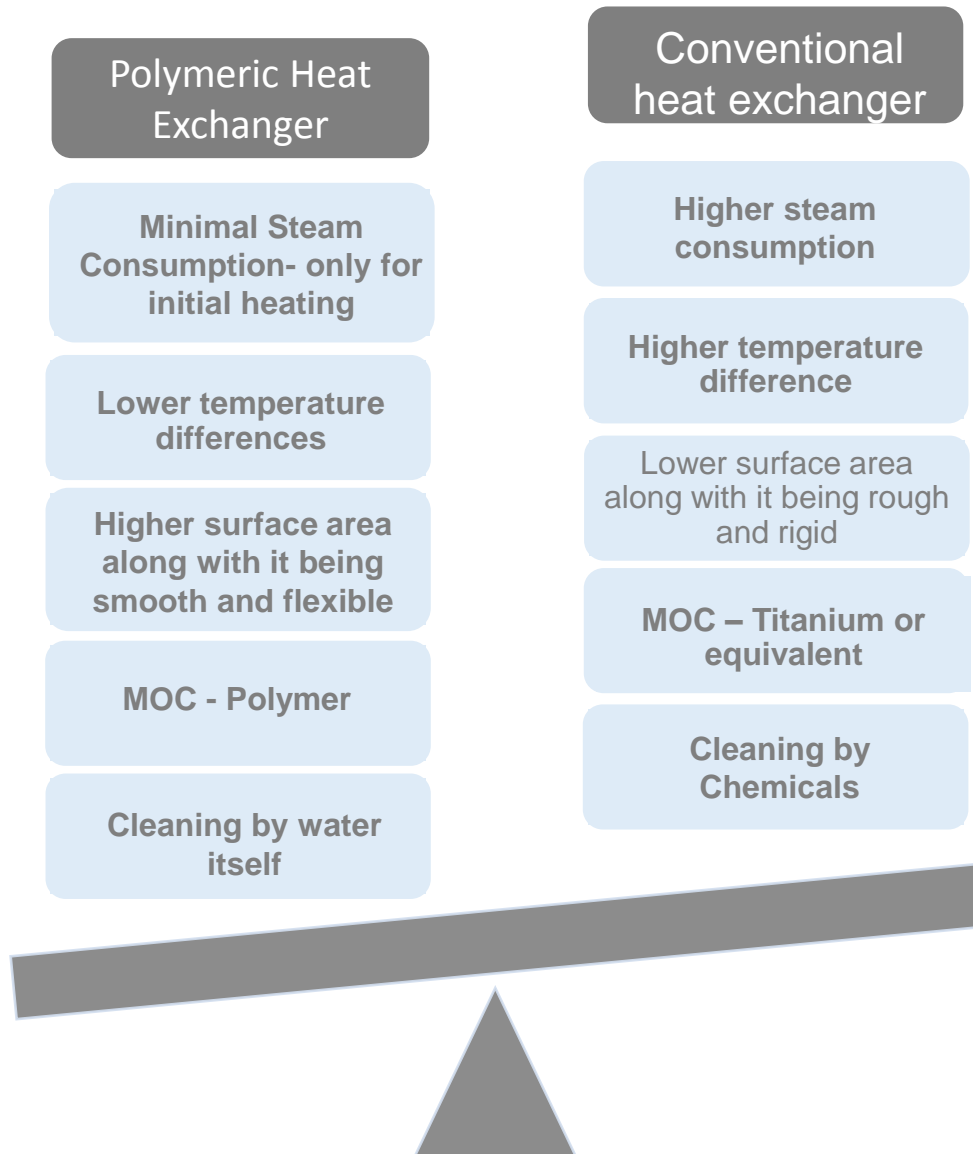


Operating Principle – Evaporation Module

Patented Polymer film



Significant advantages in operating costs can be achieved through Polymeric Film Evaporation Technology



Crystallizer Unit & Salt Recovery Application





KaiGO

Design, Service &
Support (DSS)
Practice

Why “KaiGO”

Making ‘ZLD/ETP’ affordable

ZLD and effluent treatment technologies have been historically very expensive since all know-how and technologies are imported. KaiGO aims to break the shackles by localization of technologies, making it more affordable and worthwhile for Indian industries to invest in.

Agile supply chain, shorter lead times

Time is money, a fact Indian industries are acutely aware of on account of high cost of capital, time taken for compliances etc. A by-product of localization is that we give upto 50% shorter lead times.

Genuine service, no lock-in

With single window resolution and localized manufacturing, no longer do you need to fire fight separately for different components. We are democratic and confident in our product designs and service. Our standard products will not lock you into unreasonable maintenance contracts. If you are not happy with our service, you can easily migrate to any other provider.

KaiGO has a diverse and rapidly expanding range of products

Membranes and Filters

- RO, NF & UF Membrane
- MBR
- MCF

Pressure tubes and tanks

- Pressure tubes
- FRP Tanks

Pumps and valves

- HPP
- Dosing pump
- Valves
- Multiport valve

DAF and media

- Dissolved air flotation
- MBBR

Screens and Press

- Filter press
- Belt press and thickeners

Mixers and aerators

- Jet mixers
- Diffusers
- Ozonator
- Blower

Chemicals and Resins

- Chemicals
- Resins

Instruments

- Flowmeters

Overview of selected products in Arvind KaiGO



RO, UF and NF Membranes

KaiGO is an authorized distributor for Hydranautics membranes. It is highly energy saving and low fouling on account of its composite polyamide membrane.



MBR (Membrane Bio Reactor)

KaiMBR is a combination of membrane processes like UF with the ASP process. It has a small footprint, easy retrofit and enables upgrade.



Pressure tubes

KaiTUBE FRP pressure vessels are membrane housings for industrial and commercial water treatment applications such as desalination and reverse osmosis (RO).



FRP tanks

KaiTANKs, used to hold filter media, are manufactured with high quality FRP resin, suitable for drinking water, light in weight and 100% hydro tested with certificate.



Motorized Dosing pump

KaiDOSE motorized dosing pumps are suitable for larger volume dosing application. Mechanical, hydraulic & plunger options available.



High pressure pump

KaiPUMP can be used for both positive and negative displacement application. USP's include pump casing thickness of 1.5 mm, top and bottom casings of SS304, cartridge & split type mechanical seal etc.

Overview of selected products in Arvind KaiGO



Electronic dosing pump

KaiDOSE is a positive displacement pump. It pumps a very precise flow rate of a chemical into a tank. USPs – Air relief valve, solid PTFE diaphragm, Double NRV check valves, min SPM of 120



Filter press

KaiPRESS is specially designed to de-water sludge. It has various plate MOCs (PP/CI/SS), range of sizes, option for manual/hydraulic operation.



Valves

KaiVALVES control the flow and pressure within a system or process. Available from 1" to 40" in size and 150# to 2500# Class. Types available Gate/ Globe/ Check/ Butterfly/ Ball/ NRV/ Diaphragm



Belt press and thickeners

KaiBELT is rapidly turning out to be a good alternative to the manual Filter press. Fully automatic with option for thickener, it gives upto a 30% solid consistency at outlet.



MBBR

KaiMBBR has 3 variants – PVA, Biochip and PU media, with surface areas ranging from 3000 m²/m³ to 47000 m²/m³. Reduces tank footprint, life > 5 years, highly resistant to wear and tear.



ETP and RO Chemicals

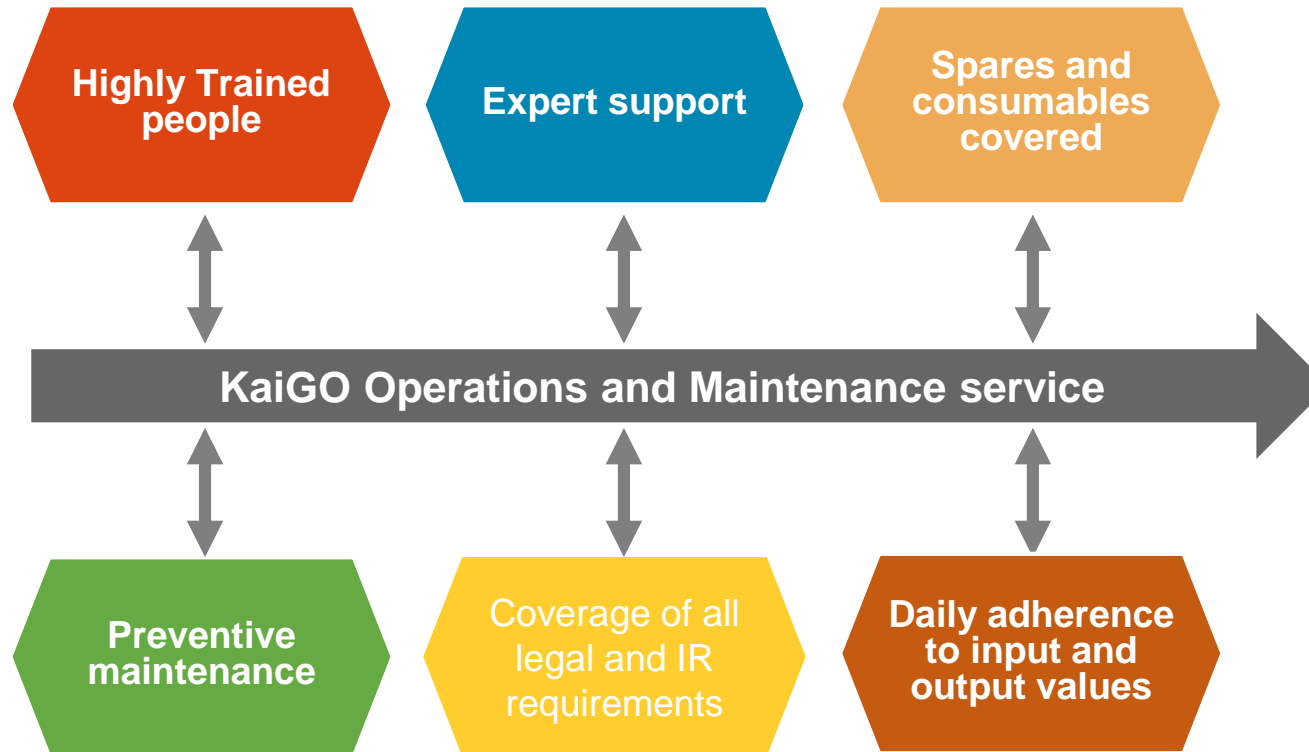
KaiCHEM offers several chemicals for water treatment

- Color removing chemicals
- Coagulants
- Polyelectrolytes
- RO antiscalants, cleaning and biocides

KaiGO offers precise and dependable Operations and Maintenance services



Your plant



- ① Zero downtime
- ② Reduced Opex
- ③ Long life of capital equipment
- ④ Keep updated with latest technology
- ⑤ Compliance to safety norms
- ⑥ No budgetary risk



Engage

Service practice

Envisol can be your thought partner to keep you updated with the best water practices the world over



Water audit and consulting

- Project management consulting and assessment
- Review of existing design parameters and quality of source
- Recommendation to enhance the performance and longevity of the existing plant.
- Regular scorecard to accredit compliance to best practices



Water testing

- Envi – Lab facility to test the customer's source water
- Effluent and report the required parameters.
- Spectrometer



Training, R&D and skill development

- Training packages and courses
- Government approved training centers
- Studies cover both theoretical and practical knowledge applications
- R&D facilities to help you design new offerings

What makes Envisol a preferred partner ?

1. One stop place for all type of water and waste treatment related customer requirements – Projects, Spares, Services
2. Single window for best globally available technologies across entire water treatment spectrum (either through own patents or licensed partners)
3. An extensive technology portfolio along with in house R&D Center
4. Proven process know how and experience
5. Experience as a reclamation plant operator
6. Multinational experience, which ensures an understanding of different local needs
7. Strong team of over 400 people ; Industry veterans, respected by customers, vendors and competitors

Some of our valued Customers



Thank you!

Contact :- 18008439988 (toll free), +917930136056

Email id :- support.envisol@arvind.in

HO address :- Arvind Envisol Ltd., Arvind mill premises,
Naroda road, Ahmedabad – 380025, India