



Recovering the Valuable **Resource!**

Advanced Integrated Solutions
for **Waste-Water Treatment**

A Sustainable **Move!**

Well placed in Indore, **INHIBEO** aims to offer solutions for **RECYCLING & REUSING** Waste-Water from diverse home & industrial operations. Planning, engineering, and delivering the most efficient, **water & waste water treatment plants** to handle even complex water problems, INHIBEO is the leading and the largest organisation of central india in the segment of water & waste water with accredited by MSME Zed certification.

The company management and core employees are dedicated to fulfilling the unique needs of clients and their projects. Identifying the problem, designing the solution, customizing the plant, and supplying it to the client is our professional process of perfection.



Our Core **Product Range**

Dealing in the Industrial, Domestic & Govt. Projects, our team of experts is committed to providing services for:

**INDUSTRIAL
REVERSE OSMOSIS
SYSTEMS**

**SEWAGE
TREATMENT
PLANTS**

**EFFLUENT
TREATMENT
PLANTS**

**ZERO
LIQUID
DISCHARGE**





Delivering **Quality!**

Consultancy, Design, construction & supervision of:

Industrial liquid waste management facilities.

Building services (Residential & Commercial) liquid waste management facilities.

Municipal liquid waste management facilities.

Design, Fabrication, Installation and commissioning of Water & waste water treatment Equipment.

Consultancy, Retrofitting, revamping of water and waste-water treatment facilities with performance guarantee.

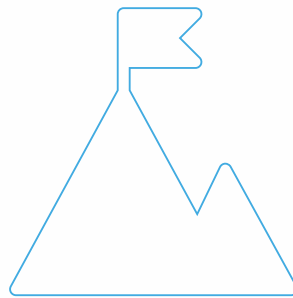
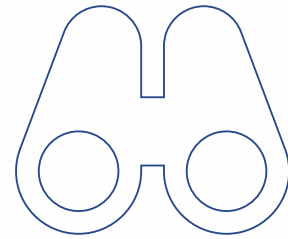
Operation & Maintenance facility for all types of Water & waste-water treatment facilities.

Complete Environment Solution to industries.



Our Vision

To be globally recognized as the first-choice technology in delivering biological and chemical solution for water & waste-water treatment.



Our Mission

To innovatively deliver the most environmentally responsible, affordable & effective waste-water treatment solutions.

Our Team

We have a team of professionally qualified engineers & technocrats, who have developed their expertise in Consultancy, Designing, Installation, Testing. Professional teamwork, on-time execution, expert guidance, after-sale service, forms the core of our organisation.



Sewage Treatment Plants (STP)

Similar to how a septic tank functions, a sewage treatment plant uses mechanical components to help break down solids and create an effluent that is cleaner and more environmentally friendly.

We at **INHIBEO** provide a range of **sewage treatment plants**, from traditional to cutting-edge technology, modular to onsite treatment plants, as per the needs of our clients and accessibility of the site.



Principle of Treatment

Sewage is treated using the distinctive treatment technologies and naturally existing microorganisms. Our goal is to achieve the best treatment values with the least amount of electromechanical equipment, which lessens reliance on inefficient pumps.

The treated water can be reused in laundry, flushing, gardening, carwashing, and other applications.

The Procedure

Equalization and Pre-Aeration.

Bio-Reaction in the Aeration tank.

Sedimentation.

Filtration-Sand and Activated Charcoal

Chlorination Sludge



We employed various treatment methodologies for **SEWAGE treatment** which are:

Aerobic Treatment:

- Membrane Bioreactor
- Sequential Batch Reactor
- Moving Bed Bio Reactor
- Activated Sludge Process
- Trickling Filter
- Rotating Biological Contactor
- Submerged Aeration Filter

Anaerobic Treatment:

- Up-Flow Anaerobic Sludge Blanket Reactor
- Anaerobic Migrating Blanket Reactor
- Expanded Granular Sludge Bed

Electrolytic Treatment:

- Electro co-agulation
 - Advanced Oxidation Unit
-

Membrane Based System:

- Membrane Bio Reactor

Effluent Treatment Plant

INHIBEO WATER Solutions firmly believe in generating wealth from waste.

This is a Wastewater treatment plant which focuses on eliminating pollutant effluent with effective and high discharge standards thereby maintaining the safety of our environment. Our

policies believe in utilising the effluent waste as resources that can be recovered for reuse.

We customise the plant as per requirement and strive to develop economical and effective designs for our clients.

Effluent Treatment Systems offered by At INHIBEO WATER:

Neutralization & pH correction systems.

Physio-Chemical systems for removal of suspended solids & COD.

Heavy metal removal & recovery systems.

Colour Removal for Textiles wastes /paper industry.

Biological Treatment plants for treating Organic wastes.

Oily waste separation systems.

Aerobic/Anaerobic sludge digestion.

Effluent recycling systems using reverse osmosis.



Key Highlights:

Purifying effluent by removing solid contents like rags, sticks, grit and grease that may cause in damage to equipment or operational problems.

Removal of floating and settled materials, i.e. suspended solids and organic matter.

Removal of biodegradable organic matter and suspended solids.

Removal of residual suspended solids / dissolved solids.

Easy processes like effluent filtration, neutralization, sludge and solid removal etc., give complete ETP solution for various industries.



Features:

High-quality system parts, including a flocculator, an aeration system, and a sludge drying bed.

RCC (Civil) Tanks, whether underground or above ground

Minimum Upkeep

Effluent BOD & COD readings are decreased by up to 99%.

A skid-mounted system is accessible.

Operator Friendly

Easy to Upgrade

Technology approved by CPCB. (Central Pollution Control Board)

Applications:

- Dairy Industries
- Fertilizer Manufacturing industries
- Food & Food Processing Industries
- Dye & Pigment manufacturing industries
- Textile & Ceramic Industries
- Sugar & Distilleries
- Pulp & Paper Industries
- Edible Oil Industries
- Electroplating Industries
- Refinery Industries
- Petro-Chemical Industries
- Pharmaceutical Industries
- and more...

Industrial Reverse Osmosis System

A large majority of contaminants from water are removed by pushing the water under pressure through a semi-permeable membrane. At **Inhibeo**, we focus employing only the greatest building materials and cutting-edge technologies to satisfy the specific needs of our customers in the most

cost-effective way possible. **Our RO units produce a high quality water yield.**

Our rigorous quality control programme and thorough factory testing ensure that only products that satisfy our high standards are provided to our clients.



Applications:

Businesses: Process
and broiler feed Food
& beverage industry
Pharmaceutical process
water Irrigation Utilities
and drinking water
Semiconductor
process water

Governmental Entities:

Municipal
Military-mobilization
Civil defense-emergency

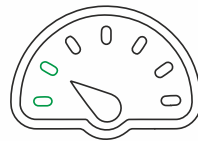
It safely removes/eliminates:

- Total dissolved solids (TDS)
- Bacteria and viruses
- Toxic substances & metals

Advantages with Inhibeo:

- Customisation available
- Experienced Team of
Expert Engineers
- Operator Training Provided
- Strong Service Support team

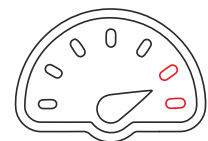
Low Pressure RO System:



Inhibeo's Low pressure membranes offer more salt rejection with higher permeate flow. This unique feature ensures that this kind of RO system requires far less energy and operational cost while treating low salinity water.

High Pressure RO System:

High-pressure membranes are widely applied to treat groundwater to reduce salt content, nitrates, and specific contaminants of concerns. It facilitates, high permeate recovery with low energy use.





ZLD

(Zero Liquid Discharge)

Zero Liquid Discharge (ZLD) is a water treatment process that aims to eliminate all liquid waste from industrial operations. This is achieved by treating wastewater to a high level of purity, allowing it to be reused or discharged safely into the environment.

Useful for:

Industries that generate large amounts of highly concentrated or toxic liquid waste, such as those in the chemical, pharmaceutical, and power generation sectors.

Industries operating in water-stressed regions, where access to fresh water is limited.

Inhibeo and its advanced technology, can help you reduce your liquid waste disposal costs, improve your environmental compliance, and conserve water resources. Our water treatment solutions can provide a customized ZLD system to fit your specific industry and waste stream.

By working with customers to understand their unique challenges and focusing on continuous innovation, Inhibeo Water solutions provide best-in-class performance and reliability.



MEE:

Multi-Effect Evaporator is an essential technology for **Zero Liquid Discharge (ZLD)** systems, helping to conserve water resources, reduce liquid waste disposal costs, and improve environmental compliance. It is a key component in **ZLD system** for industrial wastewater treatment. It is used to evaporate water from wastewater, concentrating dissolved solids and reducing the volume of liquid waste that needs to be disposed of.

Our Multi-Effect Evaporator systems are designed to handle a wide range of industrial wastewater streams to meet the specific needs of your facility. Inhibeo offers rigorous cleaning solutions for new or existing MEE units also.

Benefits:



Energy efficient



Low maintenance cost



Customisable



Increase thermal efficiency



TVR:

Thermal Vapor Recompression evaporators use a vapor compression system to recover and reuse the thermal energy from the vapor generated during evaporation. Like MEEs, TVR evaporators are typically integrated with other ZLD technologies, such

as crystallization, reverse osmosis, and brine concentrator, to produce high-purity water that can be reused or safely discharged. The concentrated dissolved solids produced by TVR evaporators can be further treated by Incineration.



Benefits:



Better Savings



Energy efficient



Customisable



Improve environmental compliance



Low maintenance cost



Ideal for low boiling-point liquids

MVR:

Mechanical vapour recompression (MVR) evaporators operate a compressor that reuses heat in the evaporator with electricity or a gas turbine. Instead of using a vapor compression system to recover and reuse thermal energy, MVR evaporators use a mechanical compressor. Because of this economical and energy-efficient technique.

When bigger heat transfer surfaces may be used to reduce the differential temperatures in the heat exchanger and the system has a low boiling point elevation, mechanical recompression performs at its optimum.

ATFD:

An **Agitated Thin Film Dryer (ATFD)** is a specialized technology for drying liquid or slurry-like materials, and can be used as a component of a Zero Liquid Discharge (ZLD) system for industrial wastewater treatment. The ATFD works by introducing the liquid or slurry material into a thin film of material on a heated surface, where it is rapidly evaporated.

The ATFD process is particularly useful for materials that are heat-sensitive, viscous, or contain high levels of dissolved solids, which can be difficult to dry using other methods. The ATFD can also be used for materials that are hygroscopic, meaning that they absorb moisture from the air, as it can be done in a controlled environment.



Our Clients



And many more...



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