ADVANCED TECHNOLOGIES FOR EFFICIENT WATER UTILISATION

Water Recovery, Reuse and Resource Optimisation



DEW

Your Partner in Innovative Liquid Engineering Solutions

DEW

About Us :

Since 2000, Dew Projects & Chemicals Pvt. Ltd. has helped industries treat, reuse and recover water. What began as a commitment to dependable service and quality has grown into a complete liquid engineering partnership. Today, we are proud to be among the pioneers of our industry, leading the way in innovative methods and sustainable practices.

We design and build water and wastewater treatment plants, manufacture our own speciality treatment chemicals, and operate plants under BOO and BOOT models. Engineering, chemistry and operations all sit under one roof, so our clients have a single, accountable partner from the first design to long-term performance.

As water becomes scarcer and standards grow stricter, we remain committed to helping industry do more with every drop, responsibly and reliably.





Treat. Recover. Reuse.

Industries today face increasing water scarcity, stricter discharge norms, rising treatment costs and growing ESG expectations.
Dew addresses these challenges through integrated technologies that maximise water reuse, treat complex pollutants and recover valuable resources.

WATER RECYCLING & ZLD

Reduce freshwater dependence, maximise reuse and eliminate liquid discharge.

KEY OUTCOME: >95% water recovery

ADVANCED OXIDATION

Treat extremely high COD, colour and complex organics beyond biological limitations.

KEY OUTCOME: >99% colour and organics removal

RESOURCE RECOVERY

Convert concentrated waste streams into reusable water, chemicals and salts.

KEY OUTCOME: Up to 93% water recovery plus recoverable resources*

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Reclaiming Industrial Rejects

A customised membrane-recovery system reclaims high-salinity reject water collected in the boro-pit and converts it into high-quality cooling-tower make-up water, significantly reducing freshwater consumption and environmental discharge.

Treatment capacity	Water recovery	TDS reduction	Water recovered daily
500 KLD	Up to 80%	47,244 mg/L (Inlet TDS) >99.5% Reduction	380–400 KLD



CHALLENGE

Reclaim high-TDS and high-TSS reject water collected in the boro-pit from multiple RO, cooling tower etc plants, containing hardness and heavy metals.

OUR SOLUTION

A 500 KLD recycling plant combining targeted pretreatment, nanofiltration and reverse osmosis.

PROCESS

Equalisation Tank → Pre-treatment → Nanofiltration → Reverse Osmosis → Process Reuse

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Ammonia Removed. Nutrient Recovered.



A customised membrane and thermal recovery system treats high-ammonia process effluent while recovering the nutrient fraction for reuse as raw material.

755 KLD	>3,500 to < 5 ppm	>98.8%	Nutrient Recovered
Plant capacity	Ammonia reduction	Removal efficiency	Reused as raw material

CHALLENGE

Treat a high-organic-load effluent containing more than 3,500 ppm ammonia, beyond the capability of conventional treatment.

SOLUTION

The membrane system separates and concentrates ammonia, while the thermal system recovers the nutrient in a reusable form

PROCESS

Process Effluent → Membrane Separation → Thermal Recovery → Nutrient Reuse

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Treating Extreme Organic Loads

Advanced oxidation treats high-strength, deeply coloured distillery effluent beyond the limits of conventional biological processes.



THE CHALLENGE

Extremely high COD, colour and dissolved solids made the effluent difficult to treat through conventional systems.

OUR SOLUTION

A customised UV-photocatalytic Advanced Oxidation Process that breaks down persistent organics and colour at the molecular level.

PROCESS FLOW

Distillery Effluent → Pretreatment → AOP Reactor → Polishing → Treated Water

Up to 150,000 mg/L	Up to 110,000 mg/L	>99%
COD handled	TDS handled	Colour and organics removal

OPERATIONAL IMPACT

- Treats effluent beyond conventional biological limits
- Reduces colour and refractory organic compounds
- Minimises downstream membrane fouling

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Reclaiming Community Water

A containerised advanced-oxidation system reclaims accumulated village grey water for farming and livestock use.

Parameter	Pond Water	Treated Water	Reduction
BOD	50 mg/L	<10 mg/L	>80%
COD	100 mg/L	<30 mg/L	>70%
TSS	100 mg/L	<20 mg/L	>80%



CHALLENGE

Untreated household grey water, seasonal runoff and potential industrial seepage had degraded the village's central pond.

OUR SOLUTION

A modular DEWTEX® AOP system using photocatalysis and nanomaterials, followed by filtration.

PROCESS

Grey Water Intake → Pretreatment → Photocatalysis → Filtration → Water Reuse

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Produced Water Treatment

DEW implemented a 8 MLD produced-water treatment system , converting oilfield wastewater into water suitable for agricultural use. The treatment system controls salinity, suspended solids and the Sodium Adsorption Ratio (SAR) to protect soil structure and crop productivity.





OUR SOLUTION

A customised treatment system designed to reduce contaminants and maintain SAR within the required limits for agricultural reuse.

IMPACT

The project provides an alternative irrigation-water source while reducing freshwater demand and produced-water disposal.

Full-Scale Containerized Unit.

A complete containerised sewage treatment plant delivers water recovery within the restricted footprint of an operating hotel.

CHALLENGE

The site could not accommodate a conventional civil-built STP but still required full treatment of the hotel's sewage load.

OUR SOLUTION

A factory-built, modular STP integrating the complete treatment system within a compact containerised configuration

PROCESS

Hotel Sewage → Collection → 170 KLD Containerised STP → Treated Water → Reuse



DEW

Thank You

Get in touch with us

Phone Number

+91 8527998600
+91 85279 98606

Email Address

info@dewindia.com

Website

www.dewindia.com