

PURIFYING WATER, PROTECTING TOMORROW.

hydroxy WATER TECHNOLOGIES Pvt. Ltd.

BROCHURE
2026

WHO WE ARE

Founded in 2008, Hydroxy Water Technologies Pvt. Ltd. is a team of passionate, proactive, and highly skilled professionals specializing in water and wastewater treatment solutions. Driven by a commitment to environmental protection, public health, and responsible resource management, we help clients address complex water and waste management challenges through innovative and sustainable treatment technologies. Expanding our presence in 2026, Hydroxy now serves customers across Karnataka and Tamil Nadu alongside our strong footprint in Kerala.

Since our commencement, we have concentrated on services tailored to your needs across the entire spectrum of water management – from designing and developing Effluent Treatment Plants (ETP), Sewage Treatment Plants (STP), and advanced membrane filtration technologies such as Reverse Osmosis (RO) and Membrane Bio Reactor (MBR), to the operation maintenance, and re-engineering of these crucial life lines.

We are on a mission to protect natural waters while providing environmental compliance and operational efficiency to industries, businesses, residential communities, and government installations throughout the India. We provide our clients with superior treatment chemicals, spares, and maintenance to promote environmental safety, total water management, and operational reliability, allowing our clients to focus on what they do best! Powered by innovation and a customer first spirit, Hydroxy is delighted to be the chosen partner in India's clean water and better environment pursuit.

CORE COMPETENCIES

Operation & Maintenance (O&M): Expert O&M services for Effluent Treatment Plants (ETP), Sewage Treatment Plants (STP), and Water Treatment Plants (WTP) in industrial, commercial, and residential setups.

Revamping & Upgradation: Modernizing existing water treatment infrastructure to enhance efficiency and regulatory compliance.

AMC Services: Customized maintenance contracts ensuring uninterrupted operation and timely servicing of treatment systems.

Chemical Supply: Specialized supply of high-quality chemicals and spare parts essential for WTP, STP, ETP, Reverse Osmosis (RO), Nano, and Tubular Membrane filtration systems.

VISION

To be the most trusted partner in innovative water and wastewater treatment, delivering sustainable, future-ready solutions that conserve water, protect the environment, and improve the quality of life across industries and communities.

MISSION

Empowering industries and communities with innovative water treatment solutions that combine advanced technology, operational excellence, and sustainable practices to deliver reliable performance, regulatory compliance, and enduring customer partnerships

OUR COMMITMENT TO SUSTAINABILITY



Sustainability is embedded in every solution we design. Hydroxy helps businesses and communities conserve water, minimize environmental impact, and build resilient infrastructure through innovative and responsible engineering.

- **Conserve Water Resources** through advanced purification, recycling, and reuse technologies that significantly reduce water wastage.
- **Transform Waste into Value** by converting organic waste into clean, renewable biogas, supporting a circular economy.
- **Recharge Natural Resources** with effective rainwater harvesting solutions that replenish groundwater and strengthen water security.
- **Protect the Environment** by delivering systems that comply with environmental regulations while safeguarding ecosystems for future generations.

WHY CHOOSE HYDROXY



Hydroxy combines engineering excellence, proven technologies, deep industry expertise to deliver reliable water and wastewater treatment solutions. From design and manufacturing to installation, commissioning, AMC, and O&M, we provide end-to-end support that ensures regulatory compliance, operational efficiency, long-term reliability, and sustainable

- **Deep Local Expertise** with extensive knowledge of Indian water quality challenges, statutory requirements, and environmental regulations.
- **Tailor-Made Engineering Solutions** designed for industrial, commercial, residential, hospitality, healthcare, educational, and government sectors.
- **End-to-End Project Delivery** encompassing design, manufacturing, installation, commissioning, operation & maintenance, system upgrades, chemical supply, and waste management.
- **Sustainability-Driven Innovation** integrating water conservation, wastewater recycling, rainwater-harvesting, renewable energy, and resource recovery into every solution.
- **Reliable After-Sales Support** backed by experienced engineers, preventive maintenance programs, genuine spares, and responsive technical service.
- **Trusted Since 2008** with a proven track record of delivering dependable water treatment solutions for clients across South India.

NOTABLE PROJECTS & CLIENTELE

Since 2008, Hydroxy has purifying "**2.5** million liters of wastewater and supplying **4** million liters of clean drinking water daily"

a legacy we continue with unwavering commitment to a healthier and more sustainable future!The trust of our clients reflects our commitment to engineering excellence, dependable service, and sustainable water

PRODUCTS & SERVICES

Hydroxy delivers comprehensive water, wastewater, and environmental engineering solutions designed to meet the unique needs of residential communities, commercial establishments, educational institutions, healthcare facilities, industries, and government organizations. Our innovative technologies ensure safe drinking water, efficient wastewater treatment, water reuse, and sustainable waste management while helping customers achieve environmental compliance and operational efficiency.

From advanced Reverse Osmosis (RO) systems, Water Softeners, Sewage Treatment Plants (STP), and Effluent Treatment Plants (ETP) to Rainwater Harvesting, Bio-Gas Plants, Boiler Water Treatment, Demineralization (DM) Plants, Swimming Pool Water Treatment, and Incinerators, Hydroxy provides complete turnkey solutions—from design and installation to operation, maintenance, and long-term support—creating cleaner, healthier, and more sustainable environments for generations to come.

WATER TREATMENT SOLUTIONS

Raw Water Treatment

Convert untreated water into a reliable resource with Hydroxy's advanced raw water treatment systems. Designed to remove suspended solids, turbidity, and impurities, our solutions protect downstream equipment and deliver consistent, high-quality water for industrial, commercial, and municipal applications.

Key Benefits

- Enhances Overall Treatment Efficiency.
- Removes Suspended Solids & Turbidity.
- improves water clarity.
- Protects treatment equipment.
- Ensures consistent water qualitydownstream treatment.





Key Benefits

- Eliminates Hardness Minerals
- Prevents Scale Formation.
- Extends Equipment & Plumbing Life. Better for Skin, Hair & Laundry.
- Enhances Soap & Detergent Performance.
- Reliable, Continuous Soft Water Supply.

Water Softening Systems

Protect plumbing, boilers, appliances, and process equipment from hard water damage. Hydroxy water softening systems efficiently remove calcium and magnesium, preventing scale formation, reducing maintenance costs, improving efficiency, and delivering softer water for everyday use.

Reverse Osmosis (RO)

Produce exceptionally pure water with Hydroxy's advanced Reverse Osmosis systems. Designed to remove dissolved salts, heavy metals, bacteria, viruses, and other contaminants, our RO solutions deliver safe, consistent, and high-quality water for residential, commercial, industrial, and process applications.

Key Benefits

- Removes Up to 99% of Dissolved Contaminants.
- Eliminates Salts, Heavy Metals & Microorganisms.
- Low Operating & Maintenance Costs.
- Consistent High-Quality Water Supply.
- Suitable for Residential, Commercial & Industrial Use.





Key Benefits

- Up to 95–98% Water Recovery.
- Minimizes Reject Water.
- Reduces Water & Operating Costs
- Lower Chemical Consumption.
- Energy-Efficient Operation
- Extends Membrane Life.
- Supports Water Reuse & Sustainability.

High Recovery Reverse Osmosis

Maximize water recovery while minimizing reject water and operating costs. Hydroxy's High Recovery RO systems are engineered for superior efficiency, reduced water wastage, and sustainable operation, making them ideal for industries facing water scarcity and stringent environmental requirements.

Demineralization (DM) Plants

Hydroxy Demineralization Plants remove dissolved minerals and salts using advanced ion exchange technology to produce ultra-pure water.

Our DM systems are engineered for applications where water purity directly impacts equipment performance and product quality.

Key Benefits

- Produces High-Purity Demineralized Water.
- Removes Up to 99% of Dissolved Minerals & Salts.
- Prevents Scale, Corrosion & Fouling.
- Protects Boilers, Turbines & Process Equipment.
- Improves Process Efficiency & Product Quality.



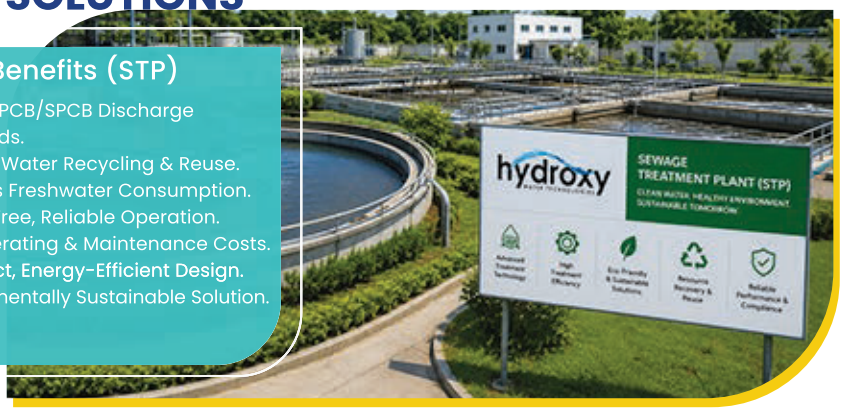
WASTEWATER TREATMENT SOLUTIONS

Sewage Treatment Plants

Treat wastewater efficiently with Hydroxy's advanced Sewage Treatment Plants. Engineered using proven biological treatment technologies, our STPs remove organic pollutants, suspended solids, and pathogens, enabling safe discharge or water reuse **while ensuring regulatory compliance** and sustainable water management.

Key Benefits (STP)

- Meets CPCB/SPCB Discharge Standards.
- Enables Water Recycling & Reuse.
- Reduces Freshwater Consumption.
- Odour-Free, Reliable Operation.
- Low Operating & Maintenance Costs.
- **Compact, Energy-Efficient Design.**
- Environmentally Sustainable Solution.





Key Benefits (WWTP)

- Meets CPCB/SPCB Discharge Standards.
- Enables Water Recycling & Reuse.
- Reduces Freshwater Consumption.
- Removes Organic & Chemical Contaminants
- **Low Operating & Maintenance Costs.**
- Energy-Efficient & Scalable Design

Wastewater Treatment Plant

Hydroxy's Wastewater Treatment Plants are engineered to treat industrial, commercial, and municipal wastewater with advanced physical, chemical, and biological processes. Our customized WWTP solutions ensure regulatory compliance, maximize water reuse, **reduce environmental impact, and** support sustainable, cost-efficient

Effluent Treatment Plants

Hydroxy's Effluent Treatment Plants are engineered to treat industrial wastewater using advanced physical, chemical, and biological processes. Our customized ETP solutions remove pollutants, oils, chemicals, heavy metals, and suspended solids, ensuring regulatory compliance, **water reuse, and environmentally** responsible operations.

Key Benefits (ETP)

- Meets CPCB/SPCB Discharge Standards.
- Removes Chemicals, Oils & Heavy Metals.
- Enables Water Recycling & Reuse.
- Reduces Freshwater Consumption.
- **Low Operating & Maintenance Costs.**
- Custom-Designed for Diverse Industries.





Key Benefits (MBR)

- Superior Effluent Quality.
- Enables Water Recycling & Reuse.
- Compact, Space-Saving Design.
- Removes Suspended Solids & Pathogens.
- Low Sludge Generation.
- **Meets CPCB/SPCB Discharge Standards.**

Membrane Bioreactors

Hydroxy's Membrane Bioreactor (MBR) systems combine advanced biological treatment with membrane filtration to produce superior-quality treated water. Delivering exceptional contaminant removal in a compact footprint, MBR technology is ideal for water reuse, **sustainable wastewater management,** and applications with limited space.

Moving Bed Biofilm Reactors

Hydroxy's Moving Bed Biofilm Reactor (MBBR) systems use high-performance biofilm carriers to efficiently remove organic pollutants from wastewater.

Designed for high treatment efficiency, operational flexibility, and compact installation, MBBR is ideal for new plants and upgrades of existing STP and ETP facilities.

Key Benefits(MMBR)

- High Organic Load Removal Efficiency.
- Compact, Space-Saving Design.
- Low Sludge Generation.
- Easy Operation & Minimal Maintenance.
- **Ideal for STP & ETP Upgrades.**
- Meets CPCB/SPCB Discharge Standards.



Sequential Batch Reactors Plants

Hydroxy's Sequential Batch Reactor (SBR) systems combine equalization, aeration, settling, and decanting in a single reactor to deliver high-quality wastewater treatment. Designed for efficient biological nutrient removal, SBR offers reliable performance, operational flexibility, and water reuse for municipal and industrial applications.

Key Benefits (SBR)

- High BOD, COD & Nutrient Removal.
- Excellent Treated Water Quality.
- Compact Single-Tank Design.
- Low Sludge Generation.
- Flexible & Automated Operation.
- Ideal for Water Recycling & Reuse.
- Meets CPCB/SPCB Discharge Standards.





Key Benefits (DAF)

- Removes Oils, Grease & Suspended Solids.
- High Clarification Efficiency.
- Reduces BOD, COD & TSS Load.
- Improves Downstream Treatment Performance.
- Compact, High-Throughput Design.
- Low Chemical & Operating Costs.
- Supports Water Recycling & Reuse.

Dissolved Air Flotation Plant

Hydroxy's Dissolved Air Flotation (DAF) systems efficiently remove suspended solids, oils, grease, fats, and fine particles from industrial wastewater using microbubble flotation technology. Designed for high clarification efficiency, DAF reduces pollutant loads, enhances downstream treatment, and supports sustainable water

Grey Water Recycling

Hydroxy's Grey Water Recycling systems treat wastewater from showers, wash basins, and laundry for safe non-potable reuse.

Using advanced filtration and disinfection technologies, our solutions reduce freshwater consumption, lower utility costs, and support sustainable water management in residential, commercial,

Key Benefits

- Reduces Freshwater Consumption.
- Recycles Water for Flushing & Irrigation.
- Lowers Water & Utility Costs.
- Compact, Automated System.
- Improves Water Sustainability.
- Reduces Wastewater Discharge.
- Ideal for Green Building Compliance.



WATER DISINFECTION SYSTEMS



Key Benefits (UV)

- Chemical-Free Disinfection.
- Eliminates Bacteria, Viruses & Pathogens.
- Preserves Water Taste, Odour & pH.
- Instant, High-Efficiency Treatment.
- No Harmful Disinfection By-Products.

Ultraviolet Disinfection

Hydroxy's Ultraviolet (UV) Disinfection systems provide fast, chemical-free inactivation of bacteria, viruses, and other microorganisms. Using high-intensity UV technology, our solutions deliver safe, hygienic water without altering taste, odour, or pH, making them ideal for drinking water, process water, and wastewater reuse.

Ozonation Systems

Hydroxy's Ozonation systems harness the powerful oxidizing properties of ozone to disinfect water, eliminate microorganisms, remove colour, odour, and organic contaminants, and improve overall water quality. Ideal for drinking water, wastewater reuse, process water, and industrial applications requiring high-performance oxidation.

Key Benefits

- Powerful Chemical-Free Disinfection.
- Eliminates Bacteria, Viruses & Pathogens.
- Removes Colour, Odour & Organic Contaminants.
- Improves Water Clarity & Quality.
- No Harmful Chemical Residues.
- Reduces Chemical Consumption.



Advanced Oxidation Process

Hydroxy's Advanced Oxidation Process (AOP) systems use powerful hydroxyl radicals to destroy persistent organic pollutants, colour, odour, and trace contaminants that conventional treatment cannot remove.
Ideal for advanced water purification, industrial wastewater treatment, reuse, and high-quality process water

Key Benefits (AOP)

- Eliminates Refractory Organic Pollutants.
- Removes Colour, Odour & Trace Contaminants.
- Superior Oxidation & Disinfection Performance.
- Enhances Water Reuse & Recycling
- Reduces COD & TOC Levels.





Key Benefits

- Meets Water Quality Standards.
- Maintains Residual Disinfection Protection.
- Reliable & Cost-Effective Treatment.
- Suitable for Drinking , Process Water.
- Simple Operation & Low Maintenance.
- Scalable for Small & Large Installations.

Chlorination System

Hydroxy's Chlorination systems provide reliable, cost-effective disinfection by eliminating bacteria, viruses, and harmful microorganisms while maintaining a protective residual chlorine level throughout the distribution network. Ideal for drinking **water, process water, swimming pools,** and wastewater treatment

Pool Treatment Solutions

Hydroxy's Pool Treatment systems combine advanced filtration, circulation, and disinfection technologies to maintain crystal-clear, hygienic, and balanced pool water. Designed for residential, commercial, hospitality, and recreational facilities, our solutions ensure safe **swimming, reduced maintenance,** and efficient water management.

Key Benefits

- Crystal-Clear & Hygienic Water. Eliminates Bacteria, Algae &
- Contaminants.
- Maintains Balanced Water Chemistry.
- Reduces Chemical & Maintenance Costs.
- Energy-Efficient Filtration System.
- Improves Swimmer Comfort & Safet.
- Extends Pool Equipment Life.





Key Benefits

- Converts organic waste into renewable biogas.
- Produces nutrient-rich organic manure.
- Lowers waste management and energy costs.
- Suitable for hospitality, residential communities, industries, institutions.

Solid Waste Management

Hydroxy provides sustainable organic waste management solutions that convert biodegradable waste into renewable biogas and nutrient-rich organic manure. Our systems help industries, institutions, hospitality, residential communities, and **municipalities minimize landfill waste,** reduce greenhouse gas emissions, and generate clean, renewable energy.

FILTRATION & PRE-TREATMENT

Pressure Sand Filters

Hydroxy Pressure Sand Filters efficiently remove suspended solids, turbidity, and particulate matter using high-grade filtration media. Designed for reliable pre-treatment, they improve water clarity, protect downstream equipment, and **enhance the performance of RO, DM,** and other treatment systems.

Activated Carbon Filters

Hydroxy Activated Carbon Filters effectively remove chlorine, colour, odour, taste, and organic contaminants through premium activated carbon media. They improve water quality, protect membrane systems, and are ideal **for drinking water, industrial** processes, and pre-treatment

Iron Removal Systems

Hydroxy Iron Removal Systems eliminate dissolved iron, manganese, and associated staining, odour, and discoloration from groundwater. Our advanced filtration technology delivers clear, clean water while protecting **pipelines, fixtures, and industrial** equipment from corrosion and



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