GULF WATER TREATMENT CO. LTD.

ENGINEERING EVERY DROP

2023-2024



Your One Stop Water Treatment Solution

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Since its inception in 1992 in the United Arab Emirates, GWT has embarked on a remarkable journey, evolving from a modest provider of desalination systems to a cutting-edge, technology-infused enterprise offering comprehensive water-centric services and solutions.

With an impressive track record of over 2000 successful projects spanning the entire region, our adept engineers boast mastery across an array of technologies, ranging from conventional chemical treatment to the intricate realm of hazardous industrial effluent management.

At GWT, we are a mission-driven organization with a set of clearly defined values and principles that guide our actions. We foster a culture of purpose and self-esteem among our employees, recognizing that our competitive advantage lies in their ability to transform rational ideas into actions that align with our mission. Our team is equipped with the latest technology and staffed with expert professionals who deliver cost-effective solutions.

MISSION

To Deliver solutions to the world that secure safe water for us, our children, and the generations to follow.

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VISION

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HEAL

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To emerge as one of the top ten globally trusted organizations providing water treatment solutions.

OUR VALUES

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ل Truthfulness:

We uphold honesty and transparency in all our interactions, building trust through open and authentic

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Happiness:

We are dedicated to the happiness of our employees, customers, partners, and society, as we strive to create an environment where joy and well-being flourish.

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pathy:

We value and understand the feelings, perspectives, and needs of others, fostering a culture of compassion and consideration.

Sustainability: it is at the heart of everything we do. We are committed to making responsible choices that ensure the well-being of our planet, society, & future generations.



WHAT MAKES US UNIQUE?

At Gulf Water Treatment Co. Ltd. (GWT), our distinctiveness is woven into every facet of our operations. Our unwavering commitment to engineering excellence and innovative solutions sets us apart in the water and wastewater industry. Here's what makes GWT truly unique:

- Holistic Expertise: With a team of experienced & dedicated professionals, we possess the capability to handle diverse challenges across the water spectrum. Our comprehensive approach, from design to execution, ensures that every project benefits from our multidisciplinary expertise.
- ▶ End-to-End Solutions: We pride ourselves on being your partner from the beginning to the end of your project journey. As an EPC (Engineering, Procurement, Construction) contractor, we offer seamless integration of services, streamlining processes, and minimizing complexities. From conceptualization to realization, we orchestrate a unified solution under a single umbrella.
- Innovation at the Core: Innovation is our driving force. Our continuous pursuit of cutting-edge technologies ensures that we stay ahead of industry trends and deliver solutions that are efficient, sustainable, and impactful. We are committed to pushing the boundaries of what's possible in water and wastewater management. As part of our innovation, we also develop IoT, AI, and Digital Twin platforms that are seamlessly integrated with our packages and solutions, providing enhanced efficiency and insights.
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- Versatility Across Industries: Our prowess extends beyond technical expertise With a diverse portfolio spanning oil & gas, municipal, industrial, and commercial sectors, we adapt our solutions to cater to a variety of industries. This adaptability is a testament to our capacity to tailor solutions that address the specific needs of each sector.
- Client-Centric Approach: Our clients are at the heart of everything we do. We take the time to understand their unique challenges and objectives, crafting solutions that align with their goals. We believe that success is measured by the success of our clients, and we are dedicated to exceeding their expectations.
- Customized Solutions: Recognizing that each industry has unique water treatment needs, GWT designs tailored solutions that align with specific requirements. Whether for industrial processes, municipal supply, or specialized applications, our water treatment systems are engineered to deliver consistent, reliable, and sustainable results.

At GWT, our uniqueness is not just in what we offer, but how we offer it. We transform challenges into opportunities, complexity into simplicity, and projects into legacies. When you choose GWT, you're choosing a partner that combines expertise, innovation, and dedication to redefine water management and create a sustainable future.







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WHY CHOOSE US?

Engineering Eminence

With a formidable team of over 80 experts, boasting an impressive 50%+ ratio of engineers specializing in Mechanical, Electrical, Chemical, Instrumentation, and Civil disciplines, our engineering excellence is unmatched. From visionary top management to meticulous execution engineers, our team is equipped to engineer optimized solutions.

Simplified Accountability

By selecting Gulf Water Treatment Co. Ltd., you're choosing clarity. We provide a singular point of contact for transparency in our project, ensuring streamlined communication, consistent updates, and transparent accountability.

Fostering Innovation

Our unwavering commitment to staying at the forefront of industry advancements ensures that your project benefits from the latest technologies, methodologies, and sustainable practices.

Proven Excellence

Our track record of successfully delivering projects across diverse industries stands as a testament to our ability to meet and exceed client expectations.

STANDARDS

Integrated Management System (IMS) at GWT

GWT excels with an Integrated Management System (IMS), uniting ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018 standards. Our IMS signifies our dedication to client satisfaction and continual improvement.

Quality (ISO 9001:2015)

Our focus: elevate customer satisfaction through effective Quality Management, ensuring compliance with customer needs and regulations.

Safety (ISO 45001:2018)

We prioritize safety with our Occupational Health & Safety Management System, aiming to prevent injuries, illnesses, and fostering secure workplaces.

Environment (ISO 14001:2015)

We're committed to environmental excellence, enhancing performance, meeting obligations, and achieving environmental objectives. GWT: Where quality, safety, and environmental responsibility converge.

In-Country Value (ICV) at GWT

At GWT, we proudly hold the ICV (In-Country Value) Certification in the UAE, a testament to our successful compliance with ICV Program requirements. Our impressive ICV score showcases our commitment to localization and sustainable economic development.











1. SOLUTIONS

At Gulf Water Treatment Co. Ltd. (GWT), we specialize in pioneering water treatment solutions designed to address the unique challenges of water management across diverse sectors. Our comprehensive range of water treatment systems reflects our commitment to delivering sustainable and innovative solutions.

Some of the key solutions offered at GWT are:

01	Waste Water Treatment System	
02	Industrial Process Water Treatment Solution	
03	Municipal (Sewage) Wastewater Treatment	
04	Industrial Wastewater Treatment Solution	
05	Greywater Recycling Solutions	
06	Pumping station	
07	Produced Water Treatment Solution	
80	Zero Liquid Discharge	
09	IoT and AI-Powered Solutions	

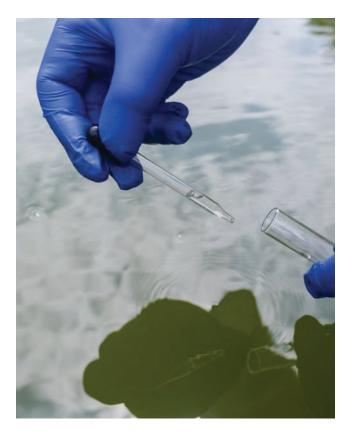


Elevating Water Security Everywhere

1.1 WATER TREATMENT SYSTEM

In a world where clean water accessibility is paramount, our commitment is unwavering. Introducing Comprehensive Portable Water Treatment solutions – a testament to our dedication in ensuring safe and potable water, no matter the location or circumstance. Offering advanced water treatment systems that cater to the diverse needs of communities, and industries. Our solutions encompass technologies like Physio- chemical treatment, filtration, Evaporation, RO desalination, mineral enhancement and disinfection, and ensuring access to safe, clean, and greattasting drinking water.

"We possess the capability to treat various water sources, ranging from **river water** and **seawater to groundwater**, and even extend our expertise to transforming **wastewater** into potable water."







1.2 INDUSTRIAL PROCESS WATER TREATMENT SOLUTIONS



Our repertoire of technologies spans a spectrum designed to match the diversity of industry needs. From fundamental physico-chemical separation and filtration to the sophistication of desalination, ion exchange, electro-deionization, and softening, we navigate through a myriad of solutions. Each approach is carefully chosen to augment process water quality and contribute to optimal operational outcomes In the intricate fabric of industrial operations, the quality of process water emerges as a linchpin for success. Our journey, woven across time, expertise, and collaborations, stands as a testament to the paramount importance of water quality. With a rich history of partnering with sectors spanning Food & Beverage, Oil & Gas, Power, Chemicals, Pharmaceuticals, and more, we champion precision in Industrial Process Water Treatment.

Our commitment to industrial clients spans diverse sectors, from manufacturing, F&B, O&G, Metal coating, pharmaceuticals and energy production to chemical processing and beyond. Recognizing the critical role that water plays in these operations, our tailored solutions address the unique challenges posed by industrial process water.

APPROACH AND EXPERTISE:

Every industry finds a bespoke solution that harmonizes seamlessly with its unique application. We bring together seasoned experts and cutting-edge technologies to tailor solutions that enhance efficiency and ensure water quality, addressing both the

Redefining Wastewater Management

1.3 SEWAGE TREATMENT SOLUTIONS

Amid urbanization's demands, our Sewage Water Treatment solutions stand as guardians of public health and environmental harmony. Transforming wastewater from a challenge to an opportunity, we seamlessly integrate advanced treatment processes that eliminate pollution while unlocking the potential for resource recovery. We envision vibrant cities where sanitation and sustainability coexist.

A Sustainable Path Forward:

Embracing the ethos of sustainable urbanization, our Sewage Treatment Plant solutions are designed to harmonize with the needs of modern cities while addressing the pressing issue of wastewater management. We envision a future where sewage treatment not only eliminates pollution but also nurtures a circular economy by recovering valuable resources.

Our Approach:

▶ Urban Integration: Our solutions seamlessly integrate within urban landscapes, catering to the needs of growing populations and ensuring that wastewater doesn't compromise the environment or public health.





- Advanced Treatment Processes: We harness cutting-edge technologies that encompass biological, physical, and chemical treatment methods. This comprehensive approach ensures the removal of contaminants, organic matter, and pathogens, resulting in treated water that meets stringent quality standards to meet any application
- Resource Recovery: Going beyond mere treatment, our Sewage Treatment Plant solutions emphasize the recovery of resources such as energy, nutrients, and water. By transforming waste into usable commodities, we contribute to sustainable practices and reduced strain on natural resources.
- Regulatory Adherence: Our solutions stand as beacons of regulatory compliance, adhering to local and international wastewater treatment standards. We alleviate the burden on municipalities while safeguarding environmental well-being.
- Community Health: By treating sewage efficiently, we protect communities from waterborne diseases, ensuring a healthier and safer living environment for residents.

1.4 INDUSTRIAL WASTE WATER TREATMENT

Embracing the nexus of industry and environment, our Industrial Wastewater Treatment solutions redefine wastewater management. We go beyond treatment to resource recovery, harnessing cutting-edge methods to cleanse wastewater and mitigate environmental impact. Our commitment to regulatory compliance and ecological well-being ensures industries operate responsibly, minimizing their footprint.

A Vision for Sustainable Industry

At the heart of our mission lies the vision of transforming industrial processes into models of responsible resource utilization. Our Industrial Wastewater Treatment solutions fuse cutting-edge technology with a profound commitment to reducing environmental impact and enhancing regulatory compliance.

Our Approach:

- ▶ Tailored Strategies: We recognize that every industry is characterized by distinct wastewater challenges. Our solutions are meticulously tailored to align with diverse sectors, including Manufacturing, Energy, Chemicals, Pharmaceuticals, and more.
- Comprehensive Technologies: Our arsenal of technologies encompasses a range of treatments, from biological and physical processes to chemical treatments and advanced oxidation. These solutions are selected to effectively address pollutants specific to each industry.



Redefining Water Conservation

GREYWATER RECYCLING SOLUTIONS

Promoting sustainable water usage, our Grey Water Treatment solutions champion the potential of reusing household water. Capturing and treating greywater from sinks, showers, and laundry, we channel this resource for irrigation, toilet flushing, and more. This circular approach conserves freshwater resources and fosters ecofriendly practices in residential and commercial settings

Central Tenets of Our Approach:

Residential Integration: Our solutions seamlessly integrate into homes and buildings, offering a sustainable alternative to conventional water usage. By recycling greywater from sinks, showers, and laundry, we reduce freshwater demand and lessen the strain on municipal water sources.





- Advanced Treatment Technologies: Our solutions harness advanced treatment methods like physio-chemical, biological, filtration, UF and/or RO, that cleanse greywater, removing impurities and contaminants. This purified water is then repurposed applications like irrigation, flushing, and landscaping, car washing etc
- Economic Benefits: Our solutions not only promote sustainability but also offer potential cost savings by reducing water bills and mitigating the need for additional wastewater treatment infrastructure.

Powering the Flow of Progress

PUMPING STATIONS

In the complex network of water supply, wastewater & storm water management well designed pumping stations play a major role, ensuring the continuous flow of vital resources. These engineered marvels embody precision, reliability, and efficiency, reshaping how we harness and distribute water.

Engineering Excellence in Motion:

Pumping stations are the mechanical heartbeats of water systems, designed to overcome elevation differences and transport water from one location to another. Whether it's supplying freshwater to communities, managing stormwater, or facilitating the movement of wastewater, pumping stations are the linchpins that keep essential services running seamlessly.





Key Functions and Components:

- Pumps: At the core of every pumping station are powerful pumps that propel water through pipelines. These pumps vary in type, from centrifugal to positive displacement, and are carefully selected to match the specific requirements of each application.
- Control Systems: Advanced control systems ensure pumps operate optimally, adjusting flow rates and pressure as needed. These systems often incorporate real-time data monitoring and remote control capabilities for enhanced efficiency and responsiveness.
- Safety Measures: Pumping stations incorporate a range of safety features to protect equipment and prevent emergencies. These may include backup power supplies, alarms, and fail-safe mechanisms to safeguard against system failures.

Sustainability and Energy Efficiency:

Modern pumping stations are designed with sustainability in mind. Energy-efficient pumps, renewable energy integration, and innovative technologies contribute to reduced operational costs and environmental impact. These stations are not just guardians of water but also champions of resource conservation.

PRODUCED WATER TREATMENT SOLUTION

Produced water, a byproduct of oil and gas production, presents a unique challenge and opportunity. Traditionally viewed as a wastewater, we see it as an untapped resource waiting to be unlocked. Our produced water treatment solutions go beyond mere disposal, focusing on recovery, purification, and sustainable utilization. Produced water treatment is a multi-step process designed to remove impurities, hydrocarbons, and contaminants from water produced during oil and gas extraction. Here are the key steps involved in produced water treatment:

Primary Separation:

The first step is typically primary separation, where the produced water is separated from the oil and gas in a gravity separator or other primary separation equipment. This step reduces the oil content in the water.

Deoiling:

In the deoiling stage, specialized equipment like hydrocyclones or flotation cells is used to further remove any remaining oil and grease from the water. This step aims to reduce the oil content to acceptable levels.

Chemical Treatment:

Chemical treatment involves adding coagulants and flocculants to the water to promote the aggregation of fine particles and suspended solids. This helps in their precipitation and removal.

Filtration:

Filtration is often used to remove suspended solids and fine particles that may not have settled out during the primary separation and chemical treatment stages. Various filtration methods, including multimedia filtration and cartridge filtration, are employed.



Biological Treatment:

In some cases, biological treatment may be employed to further degrade any remaining organic compounds in the water. This can involve the use of microorganisms to break down contaminants.

Advanced Treatment:

Depending on the specific requirements and regulations, advanced treatment technologies like membrane filtration (e.g., ultrafiltration or reverse osmosis) or advanced oxidation processes (e.g., UV or ozone treatment) may be employed to remove dissolved impurities, organic compounds, and pathogens.

Desalination (if needed):

In regions where the produced water has high salinity, desalination processes like electrodialysis or thermal distillation may be used to reduce salt content.

Disinfection:

To ensure that the treated water meets health and safety standards, a disinfection step, often involving chlorine or other disinfectants, is employed to eliminate any remaining microorganisms.

Monitoring and Testing:

Throughout the treatment process, continuous monitoring and testing of water quality are essential to ensure that the treated water meets regulatory requirements and environmental standards.

Water Reuse or Disposal: Once treated, the water can be reused for various purposes, such as reinjection into wells for enhanced oil recovery or for non- potable applications like dust suppression or irrigation. Alternatively, if it doesn't meet the criteria for reuse, it may be safely disposed of according to regulatory guidelines.

These steps may vary depending on the specific characteristics of the produced water, local regulations, and the desired quality of the treated water. The goal of produced water treatment is to not only meet regulatory standards but also to minimize environmental impact and make efficient use of water resources in the oil and gas industry.



ZERO LIQUID DISCHARGE (ZLD)

In an era of growing environmental awareness and resource conservation, Zero Liquid Discharge (ZLD) has emerged as a pioneering approach to water management. At GWT, we embrace ZLD as a cornerstone of our commitment to sustainability, redefining how industries and municipalities interact with water.

The Essence of ZLD:

ZLD is not just a treatment process; it's a philosophy. It centers around the concept of treating and recovering every drop of wastewater generated in industrial and municipal processes, leaving zero liquid waste for disposal. This holistic approach aligns with the principles of responsible resource management and environmental preservation.

The ZLD process involves several key steps and technologies:

Pretreatment:

This is the initial stage where raw wastewater undergoes physical and chemical treatments to remove large particles, oil, grease, and other contaminants that may interfere with subsequent processes.

Primary Separation:

In this step, suspended solids are further removed from the wastewater. Common techniques include clarifiers, dissolved air flotation (DAF), or sedimentation.

Secondary Treatment:

This stage involves biological processes to break down organic compounds and remove dissolved contaminants. Common methods include activated sludge systems, biofilters, and membrane bioreactors (MBRs).

Tertiary Treatment:

This is where advanced technologies come into play. Tertiary treatment often includes ultrafiltration (UF), nanofiltration (NF), or reverse osmosis (RO) to further purify the water by removing dissolved solids, salts, and other impurities. These processes are essential for achieving the "zero liquid discharge" goal.

Concentration:

After the tertiary treatment, the concentrated brine or solid waste is produced. Evaporation and crystallization technologies are employed to further concentrate this waste stream. During evaporation, heat is applied to the brine, causing the water to evaporate and leaving behind solid salts. Crystallization encourages the formation of salt crystals, which can be harvested.

Solid-Liquid Separation:

The solid salts produced during concentration are separated from the remaining liquid phase. This step can involve various methods, such as centrifugation or filtration, to recover the solid salts.

Salt Recovery:

Recovered salts can often be reused in industrial processes, thereby reducing the need for fresh raw materials. The quality of the recovered salts is crucial, as it determines their suitability for reuse.

Water Reuse:

The purified water obtained after ZLD treatment is of high quality and can be reused for various applications within the industrial process, cooling towers, or even discharged as high-quality effluent into the environment if permitted.

Residual Management:

There may still be a small amount of residual waste or sludge left after ZLD treatment. This residual waste is typically managed and disposed of in an environmentally responsible manner, often in compliance with regulatory requirements.

Energy Recovery:

In some ZLD systems, there may be opportunities for energy recovery, such as utilizing the heat generated during concentration processes to reduce energy consumption elsewhere in the facility.

ZLD is a complex and resource-intensive process that requires careful planning, design, and operation to achieve its goal of zero liquid discharge. It is particularly valuable in industries where water resources are scarce or where regulatory compliance demands minimal liquid waste discharge.







IOT AND AI-POWERED SOLUTIONS

In the era of digital transformation, the water treatment industry is undergoing a profound evolution, and at GWT, we stand at the forefront of this transformation. Our innovative solutions, fueled by the power of the Internet of Things (IoT) and Artificial Intelligence (AI), are redefining the standards of efficiency, precision, and sustainability in water treatment.

Smart Monitoring and Predictive Maintenance:

Our IoT and AI-powered solutions offer real-time visibility into water treatment operations. Through remote monitoring, we keep a vigilant eye on critical parameters and swiftly identify deviations from optimal conditions. Predictive maintenance algorithms anticipate equipment issues before they occur, minimizing downtime and ensuring continuous water treatment.



Precision Water Treatment:

The integration of AI allows us to fine-tune water treatment processes with unparalleled precision. By constantly adjusting chemical dosing, filtration rates, and treatment methods based on real-time data, we ensure that water quality meets and exceeds the most stringent standards. This not only enhances water purity but also reduces chemical usage and operational costs.

Energy Efficiency and Sustainability:

Our IoT and AI solutions go hand in hand with sustainability. By optimizing treatment processes, we minimize energy consumption and reduce the environmental footprint of water treatment facilities. This aligns perfectly with our commitment to responsible resource management and ecological preservation.

Resilience and Adaptability:

In a rapidly changing world, adaptability is crucial. Our IoT and AI-powered systems can quickly respond to fluctuations in water quality, supply, or demand. They can also accommodate changes in treatment objectives, ensuring that water treatment facilities remain agile and resilient in the face of evolving challenges.

A Sustainable Future:

At GWT, we see IoT and AI as catalysts for a more sustainable future. Our solutions not only enhance water treatment efficiency but also contribute to the broader goal of responsible resource utilization. Join us in this journey of transformation, where technology and innovation are the driving forces behind cleaner, safer, and more sustainable water treatment practices. Together, we'll shape a world where water is a source of life, health, and prosperity for all.



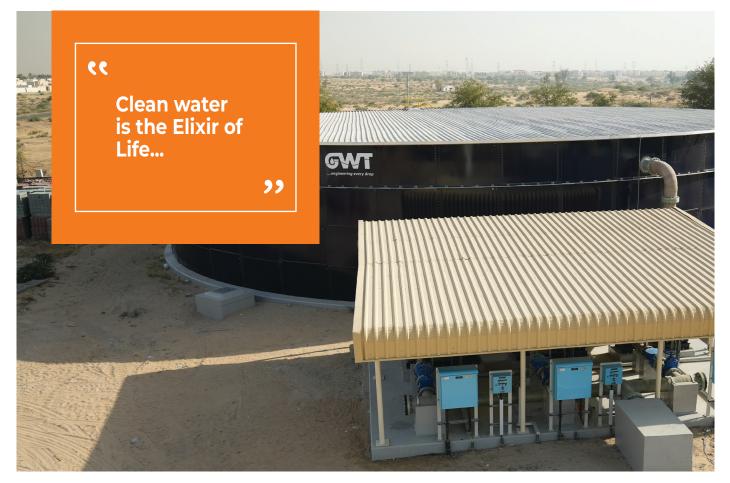
2. TREATMENT TECHNOLOGIES

"At GWT, we deeply value our extensive expertise and practical experience in every aspect of process design and technology implementation. It's this wealth of knowledge and experience that has propelled us to remarkable growth in the market.

Our technology portfolio encompasses a diverse range of state-of-the-art systems and processes, from **membrane filtration and chemical treatment to advanced oxidation and biological processes.** Each solution is carefully tailored to meet the unique needs of our clients, whether they operate in municipal water supply, industrial processes, wastewater management, or specialized niches.

Our approach is anchored in sustainability, with a focus on **minimizing environmental impact, conserving resources reducing energy consumption and a cost-effective solution.** We believe that technological progress and ecological responsibility can go hand in hand, and our technology reflects this harmonious balance.

With a commitment to excellence and a vision for a water-secure world, we continue to push the boundaries of water treatment technology, ensuring that communities have access to clean, safe water, industries operate efficiently, and our planet thrives. Join us in this journey where technology transforms water into a source of life, health, and prosperity."



THE TECHNOLOGIES WE ADOPT

Filtration Technology: Crafting Clarity from Complexity

Filtration technology stands as the cornerstone of water treatment, meticulously sieving out impurities to produce pristine water. Employing a variety of methods such as sand, activated carbon, and membranes, we embrace the art of clarity, delivering water that is not just safe but visually transparent and pure.







Chemical Treatment: Precision in Purification

In the feild of water treatment, chemical treatment reigns supreme, optimizing water quality with meticulous precision. Through the application of tailored chemicals, we neutralize contaminants and enhance water's quality. Our commitment lies in the science of transformation, converting water from a raw state to a life-nurturing elixir.

Biological Processes: Nature's Blueprint for Water Purity

In the delicate balance of water treatment, biological processes emulate the wisdom of nature. By harnessing microorganisms, we embark on a journey of biological purification, where organisms act as nature's own methof. This sustainable approach not only cleanses water but also nurtures ecological harmony.

The various Process includes- Activated Sludge Process (ASP), Moving Bed Bio-Reactor (MBBR), Submerged Aerated Filter (SAF), Membrane Bio-Rector (MBR), Sequential Batch Reactor (SBR), Anaerobic Digesters.

"GWT remains open to technology, without a specific allegiance to any technology or provider. As a solution provider, GWT selects the technology after careful consideration of factors such as wastewater quality, site area availability, power supply, the presence of trained operators on-site, and the intended application of the treated water."



Advanced Oxidation: Redefining Water's Potential

Advanced oxidation technology transcends conventional treatment methods. Through processes like UV and ozone treatment, we unleash the power of radicals to obliterate contaminants, offering water of exceptional purity. Our commitment to innovation goes hand in hand with our mission to harness water's boundless potential.

Desalination: Transforming Saline Challenges into Fresh Opportunities

Desalination technology stands as a beacon of hope in arid regions. Through reverse osmosis and distillation, we combat salinity, converting salt-laden water into a life sustaining resource. Our expertise navigates these challenging waters, delivering fresh opportunities to regions in need.

lon Exchange: A Symphony of Molecular Transformation

Ion exchange technology orchestrates a molecular symphony, selectively trading ions to purify water. Through resins and membranes, we sculpt water's composition with precision, tailoring it to meet exacting standards. Our commitment to perfection ensures water's readiness for any application.

Electrodeionization: The Art of Electrical Purity

Electrodeionization technology harnesses the power of electricity to eliminate impurities. Through selective ion movement, we achieve unparalleled water purity suitable for diverse industries. Our dedication to precision and efficiency transcends the boundaries of conventional water treatment.

Membrane Technology: Precision Engineering for Pristine Water

Membrane technology, at its core, involves the use of semi-permeable membranes to separate particles, contaminants, and impurities from water. These membranes act as molecular sieves, allowing only pure water molecules to pass through, resulting in exceptionally high water purity. This breakthrough technology has found widespread use in various sectors, from municipal and industrial water treatment to desalination and beyond



Diverse Membrane Technologies:

- Microfiltration (MF): Microfiltration employs porous membranes with openings in the range of micrometers to effectively remove suspended solids, bacteria, and some viruses from water. This technology finds application in producing safe drinking water and pretreating water for further treatment processes.
- Ultrafiltration (UF): Ultrafiltration takes filtration a step further by utilizing finer membranes with smaller pore sizes. UF is effective in removing not only suspended solids but also larger molecules, making it a critical component inproducing high-quality water for a range of applications, from industrial processes to municipal water treatment.
- Nanofiltration (NF): Nanofiltration operates at an intermediate level, targetingthe removal of both smaller ions and larger molecules. This technology is ideal for softening water, treating brackish water sources, and selectively removing certain salts.
- Reverse Osmosis (RO): Reverse osmosis is the gold standard for desalination and removing the most challenging impurities. RO membranes are engineered to reject ions, salts, and molecules, making them indispensable for producing drinking water from seawater and purifying water for various industries.
- Forward Osmosis (FO): Forward osmosis is an emerging technology that utilizes natural osmotic gradients to draw water through a membrane, effectively separating clean water from contaminants. It has potential applications in wastewater treatment and resource recovery.

Ultraviolet Disinfection: Harnessing Light for Water Purity

Ultraviolet disinfection technology employs the power of light to neutralize pathogens. With exacting wavelengths, we disinfect water efficiently and without the use of chemicals, ensuring the safety of water for consumption. Our commitment to health and sustainability is as bright as the UV light we employ.

At GWT, our portfolio of water treatment technologies reflects our dedication to innovation, precision, and a profound commitment to harnessing water's potential. Join us as we navigate the diverse waters of water treatment, transforming challenges into opportunities for a more sustainable and water-secure future.



3. After Sales Solutions

At Gulf Water Treatment Co. Ltd. (GWT), We believe a lifelong relationship with customer satisfaction goes beyond project completion. Our comprehensive range of after-sales solutions ensures that your water and wastewater systems continue to perform optimally, contributing to long-term efficiency and success.

- 01 Chemicals & Consumables
- 02 Spare Parts
- 03 Repair & Refurbishment
- 04 Operations & Maintenance
- 05 Annual Maintenance Contract (AMC)
- 06 Build-Operate-Transfer/Build-Operate-Transfer



Chemicals & Consumables:

GWT provides a range of chemicals and consumables tailored to the maintenance and operation of your water treatment systems. Our high-quality products ensure consistent performance and longevity.

Spare Parts:

We offer genuine spare parts to ensure the smooth operation of your systems. Our wellstocked inventory guarantees prompt availability, minimizing downtime and disruptions.

Repair & Refurbishment:

Our expert team is equipped to handle repairs and refurbishments of your systems. We focus on restoring efficiency, extending system life, and optimizing performance.

Operations & Maintenance:

GWT offers comprehensive operations and maintenance services to ensure your systems operate at peak efficiency. Our dedicated teams provide regular monitoring, troubleshooting, and preventive maintenance.

Annual Maintenance Contract (AMC):

Our AMC packages provide peace of mind by offering regular maintenance, emergency support, and spare parts. With tailored contracts, we ensure your systems are consistently reliable.

BOT/BOT (Build-Operate-Transfer/Build-Operate-Transfer):

GWT's BOT/BOT solutions offer a turnkey approach, where we design, build, and operate your water treatment system, transferring operations once established. This seamless transition ensures optimal performance and minimal hassle.



RENTAL SYSTEM FOR WATER AND WASTEWATER TREATMENT PLANT

In an era where sustainability and environmental responsibility are at the forefront of global concerns, the demand for efficient water and wastewater treatment solutions is more significant than ever before. Our Rental System for Water and Wastewater Treatment Plants is designed to address the critical needs of various industries, municipalities, and organizations by providing a versatile and cost-effective approach to managing water resources.



Key Features:

Scalable Solutions:

Our rental system offers a range of treatment plant sizes, allowing clients to choose the one that best suits their requirements. Whether it's a small-scale project or a large municipal operation, we have the flexibility to adapt.

State-of-the-Art Technology:

We incorporate cutting-edge technology and equipment in our rental systems. This includes advanced filtration, chemical dosing, and monitoring solutions to ensure efficient treatment processes and compliance with stringent environmental regulations.

Cost Efficiency:

Opting for a rental system eliminates the need for substantial upfront investments in infrastructure and equipment. Clients can allocate their budgets more effectively, as our system includes maintenance, servicing, and upgrades.

Environmental Responsibility:

We are committed to sustainability. Our treatment plants are designed to minimize energy consumption, reduce chemical usage, and produce high-quality treated water that can be safely discharged or reused, contributing to a more sustainable future.

Quick Deployment:

Time is often of the essence when dealing with water treatment needs. Our rental systems are designed for rapid deployment, minimizing downtime and ensuring immediate action in emergency situations.

Customization:

We understand that every water treatment challenge is unique. Our team of experts collaborates closely with clients to tailor our rental systems to their specific needs, ensuring optimal results.

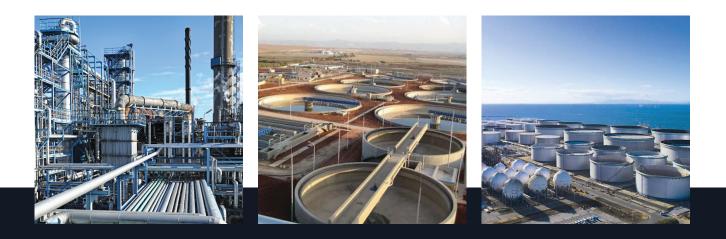
Compliance and Monitoring:

Our systems are equipped with comprehensive monitoring and control systems to ensure compliance with regulatory standards. Real-time data and reporting capabilities provide transparency and peace of mind.



INDUSTRIES SERVED

- Labour camps
- Construction sites
- Industrial Facilities
- Oil and Gas
- Emergency Response



WHY CHOOSE OUR RENTAL SYSTEM

- **Expert Support:** Our team of experienced professionals is available for consultation, system design, installation, and ongoing support.
- **Cost Predictability:** With fixed monthly rental costs, clients can plan their budgets with confidence.
- Proven Results: We have a track record of delivering reliable and efficient water and wastewater treatment solutions.
- Environmental Stewardship: We are dedicated to protecting our environment by promoting responsible water management practices.

TESTIMONIALS

We wholeheartedly recommend Gulf Water Treatment to our colleagues and partners for water related solutions. Our successful Iraq project has solidified our intention to maintain a long-term partnership with them, as we believe their expertise and customer-centric approach will continue to enhance our future endeavors.

Mr. Chu Xiaofei - SGTF Project (Procurement Manager) China Petroleum Engineering & Construction Corporation (CPECC)

• GWT's expertise in water treatment is unmatched, the BWRO systems have consistently delivered the high-quality water we require for our culinary operations. Their efficiency, reliability, and low environmental impact have made a significant difference in our day-to-day operations. Furthermore, GWT's commitment to customer support and maintenance ensures that our system run seamlessly, allowing us to focus on what we do best - catering excellence!!.

Mr. Ahmad Kaskas (Chief Operating Officer) Royal Catering Services LLC

What truly distinguishes Gulf Water Treatment is their post-installation support. Their responsiveness and reliability in addressing our queries and maintenance needs have been exemplary. I wholeheartedly recommend GWT for their unwavering commitment to excellence and expertise in water treatment

Mr. Murad Ahmed (Cluster Executive Assistant Manager) JA The Resort, Jabel Ali Beach

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THE RESORT

 We proudly endorse Gulf Water Treatment Co. Ltd. (GWT) for their commitment to environmental stewardship and for providing us with their services in Industrial Effluent treatment plant that aligns perfectly with our sustainability objectives. GWT's innovative solutions have contributed significantly to our efforts to operate responsibly and sustainably.

Mr. Khalid Mehmood Shahid (HOD - Production) Modern Bakery LLC 9















هيئة كهرباء ومياه دبي Dubai Electricity&Water Authority















































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