IOFI SYSTEMS

Innovative Water & Wastewater Solutions for a Sustainable Future

At **IOFI SYSTEMS**, we specialize in cutting-edge water treatment technologies designed for efficiency, purity, and sustainability. From filtration to advanced recycling systems, our solutions cater to industries, municipalities, and commercial applications.

Empowering Industries. Preserving Resources.
Shaping the Future of Water.

ISO 9001:2015 CERTIFIED · CE · RoHS · MADE IN BHARAT PREMIUM QUALITY

Reverse Osmosis (RO) Plants

Advanced Water Purification Systems for Industrial & Commercial Applications

Introduction

Reverse Osmosis (RO) is a cutting-edge water purification technology that removes dissolved solids, contaminants, and impurities using a semi-permeable membrane. It is widely used in industries, commercial establishments, and municipal applications for producing high-quality purified water.

Key Features

✓ High Efficiency: Removes up to 99% of dissolved solids, bacteria, and contaminants.

✓ Energy-Saving Technology: Optimized for low power consumption.

✓ Modular Design: Scalable systems from small to large capacities.

✓ Automatic Control System: Available with PLC-based automation for seamless operation.

✓ Corrosion-Resistant Materials: Built with SS316, FRP, and PVC components for durability.

✓ Low Maintenance: Easy to operate with minimal servicing requirements.

Types of RO Plants We Offer

- Industrial RO Plants (500 LPH – 100,000 LPH)
- Commercial RO Plants (50 LPH – 500 LPH)
- Containerized RO Plants (Plug-and-play mobile solutions)
- Brackish Water RO Plants (Designed for high TDS up to 5000 ppm)
- Seawater Desalination Plants (TDS up to 45,000 ppm)

Applications

🏭 Industrial Use: Pharmaceuticals, textiles, food & beverage, power plants.

🏢 Commercial Use: Hotels, hospitals, schools, malls.

🚰 Drinking Water Plants: Bottling plants, municipal water supply.

🌾 Agriculture & Irrigation: Hydroponics, greenhouse irrigation.

Water Station

Smart, Hygienic, and Sustainable Drinking Water Solutions

Introduction

Water stations provide purified, safe, and clean drinking water to public places, commercial facilities, and industrial zones. Designed for efficiency and durability, our water stations ensure uninterrupted supply while maintaining hygiene and environmental sustainability.

Key Features

✓ 24/7 Fresh Drinking Water Supply – Continuous purified water availability.

✓ Multi-Stage Filtration – Integrated RO, UV, and mineral dosing for superior quality.

✓ User-Friendly Design – Ergonomic taps, automatic sensors, and easy access.

✓ Custom Branding & Design – Tailor-made units to fit specific needs and locations.

✓ Smart Water Dispensing System – Coin, card, or sensor-based operation for controlled usage.

Types of Water Stations We Offer

◆ Community Drinking Water Stations – For villages, public parks, and railway stations.

◆ Industrial Water Dispensers – High-capacity models for factories and warehouses.

◆ Commercial Water Stations – Ideal for malls, schools, hotels, and offices.

◆ Mobile Water ATMs – Self-contained, coin-operated kiosks for remote areas.

Applications

🏙️ Public Places – Parks, railway stations, airports, bus terminals.

🏢 Commercial Spaces – Offices, shopping malls, hotels, restaurants.

🏭 Industrial Use – Factories, warehouses, manufacturing units.

🏫 Educational Institutions – Schools, colleges, universities.

🚰 Remote & Rural Areas – Community drinking water initiatives.

ULTRA-FILTRATION (UF) SYSTEM

Advanced Membrane Filtration for Superior Water Purification

Introduction

Ultra-Filtration (UF) is a highly effective water treatment technology that removes suspended solids, bacteria, viruses, and other contaminants using a semi-permeable membrane. UF systems are widely used for pre-treatment in RO plants, industrial water purification, and wastewater treatment applications.

Key Features

✓ High Filtration Efficiency – Removes particles as small as 0.01 microns.

✓ Long Membrane Life – Durable membranes with minimal fouling.

✓ Low Energy Consumption – Operates at low pressure, reducing operational costs.

✓ Modular & Scalable Design – Easily expandable based on requirements.

✓ Automatic Backwashing System – Ensures continuous performance with self-cleaning.

Types of UF System We Offer

◆ Industrial UF Systems – For large-scale water treatment applications.

◆ Commercial UF Systems – Suitable for hotels, hospitals, and malls.

◆ Municipal Water UF Plants – For public drinking water treatment.

◆ UF for Pre-RO Treatment – Extends the life of RO membranes.

◆ Wastewater Recycling UF Systems – Ideal for ETP/STP applications.

Applications

🏭 Industrial Use – Food & beverage, pharmaceuticals, power plants.

🏢 Commercial Spaces – Hotels, offices, malls, hospitals.

🏠 Municipal Water Treatment – Drinking water purification.

💧 Pre-Treatment for RO Systems – Protects membranes from clogging.

♻️ Wastewater Reuse & Recycling – For treated sewage and effluent water.

Effluent Treatment Plants (ETP) & Sewage Treatment Plants (STP)

Advanced Membrane Filtration for Superior Water Purification

Introduction

Effluent Treatment Plants (ETP) and Sewage Treatment Plants (STP) are essential for treating industrial and domestic wastewater, ensuring environmental compliance and water reuse. These systems remove contaminants, chemicals, and biological impurities, making water safe for disposal or reuse.

Key Features

✓ Advanced Filtration & Treatment – Multi-stage processes for complete purification.

✓ Compact & Modular Design – Space-saving, scalable solutions for any requirement

✓ Zero Liquid Discharge (ZLD) Options – Ensures 100% wastewater recycling.

✓ Automatic & Semi-Automatic Operation – Microprocessor/PLC/SCADA-based control systems.

✓ Odor & Sludge Management – Effective aeration and sludge dewatering mechanisms.

Treatment Processes Involved

◆ Pre-Treatment – Screening, oil & grease removal, equalization.

◆ Primary Treatment – Coagulation, flocculation, sedimentation.

◆ Secondary Treatment – Biological treatment (MBBR, SBR, MBR, ASP).

◆ Tertiary Treatment – UF, RO, disinfection, polishing for water reuse.

◆ Sludge Management – Dewatering, drying, disposal.

Applications

Industries – Textile, chemicals, pharma, food & beverage, power plants.

Commercial & Residential – Societies, hotels, malls, hospitals.

Municipal Corporations – Large-scale sewage & wastewater treatment.

Agricultural & Irrigation Use – Treated water for farming & landscaping.

Water Treatment Plants (WTP)

Comprehensive Water Purification Solutions for Industrial & Municipal Applications

Introduction

Water Treatment Plants (WTP) are essential for purifying raw water from natural sources such as rivers, lakes, borewells, and municipal supplies. These plants remove impurities, suspended solids, harmful chemicals, and microorganisms, making water safe for industrial, commercial, and domestic use.

Key Features

✓ Multi-Stage Filtration Process – Ensures complete water purification.

✓ High-Efficiency Purification – Removes sediments, chlorine, bacteria, and heavy metals.

✓ Compact & Modular Designs – Prefabricated and skid-mounted systems for easy installation.

Types of WTP System We Offer

◆ Industrial WTP – For power plants, refineries, food & beverage, and pharmaceuticals.

◆ Commercial WTP – Suitable for malls, hotels, hospitals, schools, and corporate buildings.

◆ Municipal WTP – Large-scale water treatment plants for cities and towns.

◆ Groundwater Treatment – Removes iron, arsenic, fluoride, and hardness.

◆ Surface Water Treatment – Treats river and lake water for safe consumption.

◆ Brackish Water Treatment – Specialized solutions for desalination and high TDS removal.

Applications

🏭 Industrial Sector – Process water for power plants, textiles, chemicals, and manufacturing.

🏢 Commercial Spaces – Hotels, offices, malls, hospitals, and educational institutions.

🚰 Municipal & Drinking Water Supply – Safe and potable water for public distribution.

🌾 Agriculture & Irrigation – Purified water for farming and irrigation systems.

🌊 Seawater & Brackish Water Treatment – Suitable for coastal and high-salinity areas.

Softening Plants (Water Softener System)

- Purpose: Removes hardness (calcium & magnesium) from water using ion-exchange resins.
- Applications: Boiler feed water, cooling towers, hotels, hospitals, and residential buildings.
- Types: Automatic, semi-automatic, and manual softeners.
- **Key Features:**
  - Prevents scaling in pipelines and equipment.
  - Reduces detergent consumption in laundry applications.
  - Available in FRP, MSRL, and SS construction.

Demineralization (DM) Plants

- Purpose: Produces high-purity water by removing all dissolved salts using ion-exchange resins.
- Applications: Pharmaceuticals, power plants, chemical industries, laboratories.
- **Process:**
  - Cation Exchange: Removes positive ions (Ca^{2+}, Mg^{2+}, Na^{+}, Fe^{2+}).
  - Anion Exchange: Removes negative ions (Cl^{-}, SO_4^{2-}, NO_3^{-}).
  - Mixed Bed Polishing: Final purification for ultra-pure water.

Industrial Process Water Treatment Systems

- Purpose: Custom-designed solutions for specific industrial water treatment needs.
- **Applications:**
  - Pharmaceutical & Biotech – Ultra-pure water for formulations & injections.
  - Food & Beverage – Treatment for beverage production & dairy processing.
  - Textile & Dyeing – Water recycling & effluent treatment.
  - Cooling Towers & Boilers – Scaling prevention & corrosion control.

Electrochlorinator System

- **Purpose:** Generates sodium hypochlorite (NaOCl) on-site for water disinfection, eliminating the need for commercial chlorine.
- **Applications:** Drinking water treatment, cooling towers, swimming pools, wastewater disinfection, hospitals, and industrial water treatment.
- **Process:**
  - **Brine Preparation:** Dissolves salt (NaCl) in water.
  - **Electrolysis:** Electric current passes through the brine solution, producing sodium hypochlorite.
  - **Storage & Dosing:** The generated chlorine solution is stored and dosed into the water supply.

Key Features & Benefits

✓ On-Site Chlorine Production – No need to store or transport hazardous chlorine gas or liquid.
✓ Safe & Cost-Effective – Reduces operational and chemical procurement costs.
✓ Environmentally Friendly – Minimizes harmful byproducts and enhances sustainability.
✓ Customizable Capacities – Available from small-scale to large municipal installations.
✓ Automatic Control & Monitoring – Integrated dosing pumps and controllers ensure precise chlorine dosing.
✓ Applications in Various Industries – Municipal water treatment, power plants, food processing, and industrial effluent treatment.

Trusted by Industry Leaders & Government Projects

At **INFI SYSTEMS**, we take pride in our extensive experience serving both private and government sectors across India. Our expertise in water treatment solutions has made us a preferred supplier for some of the largest infrastructure projects in the country.

🏢 **Our Esteemed Clients**

We have successfully worked with leading companies, including:

✓ Egal Infra India Limited
✓ Jay Corporation Valsad
✓ Jay Varudi Infracon Pvt. Ltd.
✓ LCC Projects Pvt. Ltd.
✓ Montecarlo Limited
✓ PC Snehal Construction Pvt. Ltd.
✓ Eiffel Construction
✓ Sahaj Construction
✓ Yash Hydrophonics Projects Pvt. Ltd.
✓ G.R.Infra Projects Pvt. Ltd.
✓ EAU Technology
✓ Norwa Africa
✓ J.P. Industries
✓ Gurunanak Tyers

🏗️ **Government & Private Sector Projects**

We have played a crucial role as prime suppliers and equipment providers in major large-scale initiatives, including:

✓ Jal Jeevan Mission – Providing sustainable water supply solutions.
✓ WASMO (Water and Sanitation Management Organization) – Ensuring clean water access for rural and urban areas.
✓ Sujalam Suflam – Enhancing water conservation and management efforts.
✓ And Many Other Key Projects Across India

With our custom-engineered systems, reliable performance, and commitment to quality, we continue to support critical infrastructure development and sustainable water solutions worldwide.

WHY CHOOSE US?

- ☑ Industry Expertise – Years of experience in water & wastewater treatment solutions.
- ☑ Cutting-Edge Technology – Advanced filtration, dosing, and automation solutions.
- ☑ Customized & Scalable Solutions – Tailored systems for industries, municipalities, and commercial applications.
- ☑ Quality & Compliance – Adherence to national and international water standards.
- ☑ Cost-Effective & Sustainable – Energy-efficient and eco-friendly water treatment solutions.
- ☑ Dedicated Support & Service – End-to-end assistance from consultation to after-sales service.

Your Trusted Partner for Reliable & Innovative Water Solutions!

INFI SYSTEMS

Complete Water & Wastewater Solutions – Engineered for Purity & Performance

At INFI SYSTEMS, we design and manufacture customized water treatment systems, offering turnkey solutions for industries, municipalities, and commercial applications.

Our expertise covers:

- ☑ Filtration & Purification Systems – RO, UF, WTP, STP, ETP, and ZLD solutions.
- ☑ Dosing Systems – pH dosing, chlorine dosing and all types of metering solutions.
- ☑ Fully Customizable Solutions – Tailored to meet specific industry needs.
- ☑ End-to-End Turnkey Projects – From design to installation & commissioning.

Delivering Innovation, Sustainability & Reliability in Every Drop.

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