



RCI AQUATECH
Every Drop Counts



RCI AQUATECH

RCI Aquatech is a trusted provider of advanced water and wastewater treatment solutions, delivering innovative systems for industrial, commercial, and municipal applications. With expertise in STP, ETP, WTP, RO, UF, DM, and Zero Liquid Discharge (ZLD) plants, the company focuses on sustainable, efficient, and customized solutions that help conserve water, ensure regulatory compliance, and support long-term environmental responsibility.

www.rciaquatech.com

ABOUT US

Founded in 2009, formerly known as Red Circle Industries (RCI), RCI Aquatech creates custom wastewater solutions based on end users' requirements, which allow for optimally chosen components resulting in a solution that meets or exceeds customer needs. RCI Aquatech's wastewater treatment systems combine necessary process technologies to reach required state and federal discharge limits and comply with local regulations. Our systems focus on removal of pollutants such as heavy metals, greases, suspended solids, oils, high salt content, toxic compounds, phosphates and more. Using chemical-physical treatment (coagulation, flocculation, and sedimentation), biological treatment (aerobic and anaerobic) and wet chemical oxidation (persistent or toxic organics).

Our expertise comprises the following technologies:

- Filtration & softening systems
- Physicochemical treatment (coagulation-flocculation)
- Membrane filtration (UF & RO)
- Ion exchange
- Chemical oxidation
- Biological treatment
- Zero liquid discharge (ZLD) system



CUSTOMER DEDICATION

RCI Aquatech is committed to 100% customer satisfaction. Customer feedback plays an integral role in achieving this commitment.

To maintain the high-quality standards that we demand of ourselves, we continuously work on optimizing our processes, products, and services to maximize the customer experience for each individual project.

To ensure alignment of our performance with your expectations and to monitor your satisfaction, we conduct a short survey after each project phase. We believe feedback during the project allows us to improve your project instead of one survey at the end of the project where your feedback only helps future customers. We hope you find this process equally important and support our pursuit for operational excellence. We ask that you provide a contact that will participate in the survey process for each project phase; we also encourage and welcome the entire project team to participate.

CORE STRENGTHS:

- Expertise in handling high-TDS, high-COD, and multi-stage effluents
- Compact & modular system design with optimal footprint
- Energy-efficient engineering and PLC-SCADA-based automation
- Regulatory compliance (CPCB, MoEF, ISO) built into every project

INDUSTRIES WE SERVE



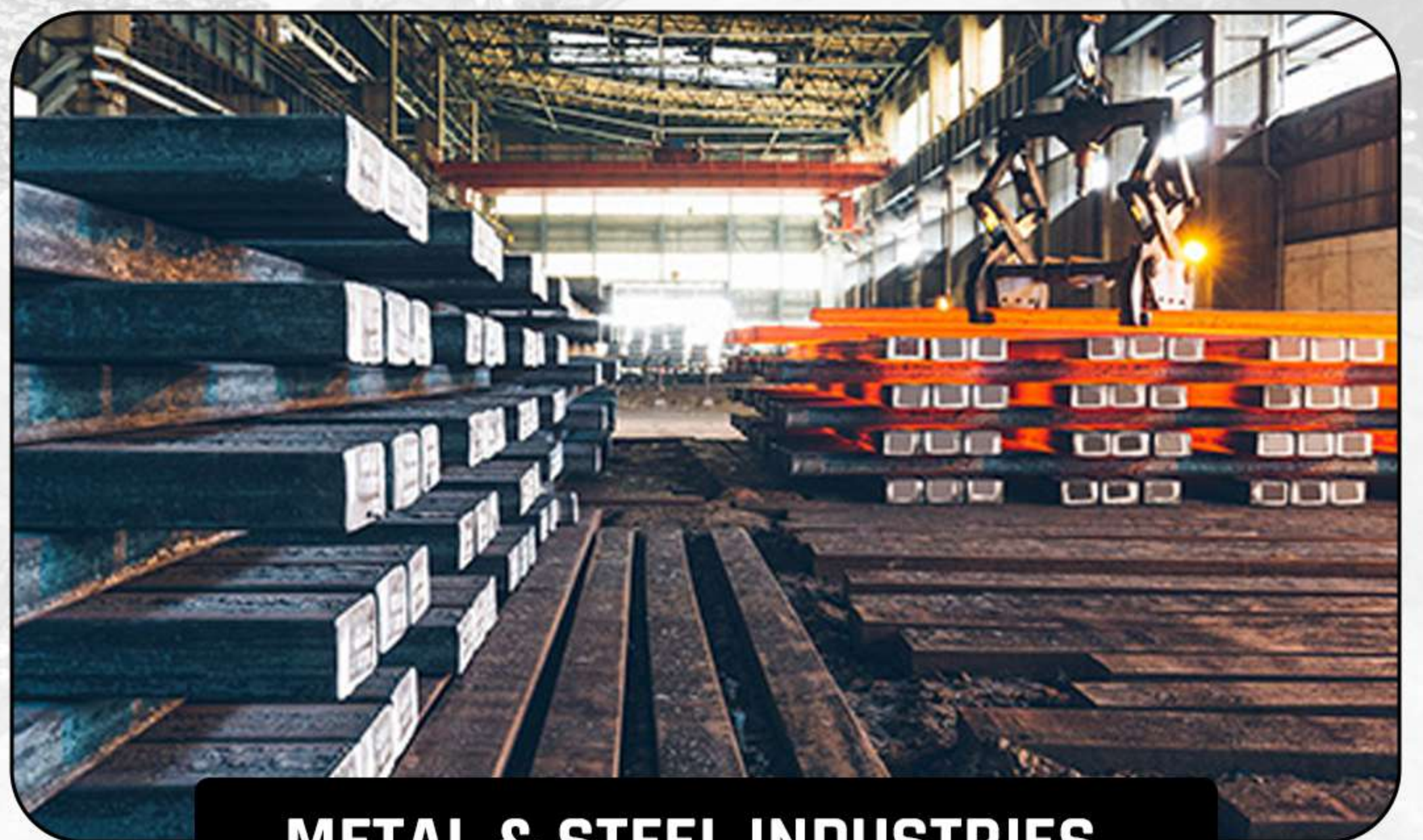
FOOD & BEVERAGE PROCESSING



PHARMACEUTICALS & FINE CHEMICALS



AUTOMOTIVE & SURFACE COATING



METAL & STEEL INDUSTRIES



**HOSPITALS & EDUCATIONAL
CAMPUSES**



**GOVERNMENT INFRASTRUCTURE
& MUNICIPALITIES**

CLARIFIER SYSTEM



Advanced Clarification Technology Options:

- HRSCC (High Rate Solid Contact Clarifier) Technology for enhanced settling with compact footprint
- Lamella Plate Clarifier (Inclined Plate Settler) for high efficiency solid-liquid separation
- Conventional Gravity Clarifier (Circular / Rectangular Type) for standard industrial applications
- Tube Settler Media System for improved settling efficiency and reduced tank volume
- Integrated Flash Mixing & Flocculation Zone for optimized coagulation and floc formation

FILTRATION PLANT/ WTP



Reliable Water Conditioning through Multi Stage Filtration Technologies:

- Engineered Multi-Stage Filtration for Reliable Water Conditioning
- Advanced PSF-ACF-IRF System for Complete Pretreatment Solution
- Optimized Media Filtration for Consistent Downstream Protection
- High Efficiency Water Conditioning for Industrial Applications
- Designed for Maximum Filtration Performance with Minimal Maintenance

ULTRAFILTRATION SYSTEM



Advanced Membrane Barrier for Suspended Solids, Bacteria & Virus Removal:

Outside-In UF Membranes

- 0.01 Micron Filtration Accuracy
- Automatic Backwash & CIP
- High Flux PVDF Membranes
- Low Energy Consumption
- Fully Automatic PLC Operation
- High Fouling Resistance & Superior Cleanability

REVERSE OSMOSIS SYSTEM



Engineered for High Recovery, Low Energy Consumption & Consistent Permeate Quality

- Engineered for Maximum Recovery & Minimum Reject
- Recovery Rate up to 75–85% (Depending on Feed Water Quality)
- Low Fouling Membrane Design
- Fully Automatic PLC-Based Operation
- Online Monitoring of Flow, Pressure, Conductivity & TDS
- Automatic Flush System for Enhanced Membrane Life
- Integrated CIP (Clean-In-Place) System
- Corrosion Resistant SS-304 / SS-316 High Pressure Piping

SOFTENER & DEMINERALISATION PLANT



High Purity Water Generation through Ion Exchange Technology

- Two-Bed / Mixed Bed Ion Exchange Technology
- High Capacity Cation & Anion Exchange Resins
- Produces Water with Conductivity & 5 $\mu\text{S}/\text{cm}$
- Silica Reduction to Low Levels
- Excellent Removal of Dissolved Salts, Minerals & Ions
- Counter-Current / Co-Current Regeneration Options
- Automatic Regeneration System Available
- FRP / Rubber-Lined MS / SS Vessel Construction
- Acid & Alkali Resistant Internal Components
- Low Leakage Resin Technology

SEWAGE TREATMENT PLANT



Engineered Biological Treatment for Sustainable Wastewater Reuse

- Activated sludge process – ASP
- Extended Aeration Process for Stable Biological Performance
- Sequential batch reactor – SBR
- MBBR/ MMBR/ FMBR/ FAB
- Membrane bioreactor – MBR
- Submerged Aerobic fixed film reactor – SAFF
- Anoxic–Aerobic Treatment Zones for Nutrient Removal (Nitrogen & Phosphorus)

EFFLUENT TREATMENT PLANT



Advanced Treatment Technologies:

- Coagulation & Flocculation System for Fine Particle Removal
- pH Correction System for Process Stabilization
- Advanced Chemical Dosing System (Acid, Alkali, Coagulant, Polymer)
- Anaerobic Treatment for High COD/BOD Industrial Wastewater (UASBR, Anaerobic filter and Biodigester)
- MBBR (Moving Bed Biofilm Reactor) for Biological Oxidation
- SBR (Sequential Batch Reactor) for Batch Wise Treatment Flexibility
- DAF (Dissolved Air Flotation) for Oil, Grease & Suspended Solids Removal

ZERO LIQUID DISCHARGE SOLUTIONS



Maximizing Water Recovery through Advanced Thermal Technologies

- MEE (Multiple Effect Evaporator) Technology for Energy Efficient Evaporation
- MVR (Mechanical Vapor Recompression) System for Low Steam Consumption
- ATFD (Agitated Thin Film Dryer) for Final Salt Drying
- Forced Circulation Crystallizer for High TDS Brine Management
- Integrated Evaporation & Crystallization Process
- RO + Evaporation + Crystallization Based ZLD Solutions
- Customized Process Design Based on Effluent Characteristics

OUR CLIENTS



info@rciaquatech.com



+91 8080008545 | +91 9145408148



14, Vidarbha Nagar Vikas Society, Shyam Nagar
Besa Road, Somalwada Nagpur Maharashtra, India- 440037