



## "ER-max" WATER & WASTE WATER SYSTEMS

We are on a journey to provide revolutionary solutions that help our partners understand the subject of water utilization and process treatment better.

Regreen Excel offers a comprehensive range of technologies to address Water and Waste Water Management issues in line with the specific treatment and recycle needs including Zero Liquid Effluent discharge.

Regreen Excel have been providing its Client with modern Water & Waste Treatment plants

- 🌀 Raw Water Clarification and Pre-Treatment Plants
- 🌀 Effluent Treatment, Recycle and Zero Liquid
- 🌀 Effluent Discharge Systems
- 🌀 Recycle and Zero Liquid Effluent Discharge Systems
- 🌀 Filtration System
- 🌀 Demineralization Plants
- 🌀 Membrane Bioreactor Technology
- 🌀 Ultra-Filtration Units
- 🌀 Desalination Plants
- 🌀 Condensate Polishing Units (CPU)
- 🌀 Dissolved Air Floatation (DAF) Systems
- 🌀 Recycle System
- 🌀 Aerobic and Anaerobic Systems

With our profound knowledge of process industry, our first step is to conduct a process audit and develop a template for mass balance of each unit process. Our offerings are purely based on study of process operation, minimizing effluent generation in process itself, reuse and recycle of process streams, trouble free operation, low operation and maintenance cost and finally minimizing the use of fresh water

## "E-MAX" ZERO LIQUID EFFLUENT DISCHARGE PLANTS

With an increasing demand on natural water resources, and unabated pollution posed by industrial discharges into the environment, it has become necessary to implement zero discharge systems in industrial waste water treatment plants. In a waste water treatment facility, zero discharge theoretically means no discharge of any kind of pollutants into the environment.

At "Regreen Excel", we believe in literal meaning of "Zero Liquid Effluent Discharge" and we endeavor to achieve it through our offerings. For us, concept of zero discharge necessarily means

- 🌀 Minimization of waste streams in process operation
- 🌀 Recovery of reusable water/other materials from waste water
- 🌀 No discharge of polluting substances into the environment away from the waste water treatment facility
- 🌀 The processes utilized for waste water treatment does not generate any additional pollutants
- 🌀 Production of waste is minimized by suitable selection of unit processes and adjusting operating parameters
- 🌀 As far as possible, pollutants in the wastewater are transferred to solid phase
- 🌀 Recovery of reusable materials, especially water, is achieved

We have tailor-made industry specific solutions for High COD, High TDS and Difficult to Degrade Effluents.

## "DISCHARGE PLANTS" FOR THE DIVERSE PROCESS INDUSTRIES SUCH AS:

- 🌀 Sugar and Distilleries
- 🌀 Textile and dyeing industry
- 🌀 Pharmaceuticals and Chemicals
- 🌀 Dairy and Food Industry
- 🌀 Paper and Pulp
- 🌀 Petrochemicals and refining
- 🌀 Other process and heavy industries and desalination plants

Our custom built solutions are purely based on scientifically designed unit operations & processes, robust design conforming to international standards and optimized instrumentations & controls for trouble free and safe operations.

Your wastewater is the most reliable source of your fresh water!

We offer a wide range of products for achieving “Zero Liquid Effluent Discharge”

- 🌱 Aerobic and Anaerobic Systems
- 🌱 Membrane Bioreactors and Ultra Filtration Units
- 🌱 Centrifuges & Filtration Units
- 🌱 Bio-Enzyme Treatment Systems and incineration based system
- 🌱 Caustic recovery plants and chemical recovery evaporators
- 🌱 Bio-Methanation Plants and Bio-Composting System
- 🌱 Multi Effect Evaporation Plants-Falling Film and Forced Circulation
- 🌱 Steam Tube Rotary Dryers, Agitated Thin Film Dryers, Spin Flash Dryers and Spray Dryers
- 🌱 Spent Wash Incineration Boilers

