



**RAJ PROCESS**  
EQUIPMENTS AND SYSTEMS PVT. LTD.



# Effluent Treatment & Zero Liquid Discharge



**Reducing Soil  
Pollution**



**Controlling Water  
Pollution**



**Recycling Waste  
Water**



**Recycled Value  
Addition**





## World-Class Equipment With Best -In-Class Technology

RAJ Process Equipment & System Pvt. Ltd., established in 2003, is a rapidly growing engineering company specializing in process equipment and systems. We offer design, engineering, manufacturing, and export services, including turnkey projects. Our expertise includes Distillery, Dehydration Technology, Evaporators, Condensate Polishing Units, Spray Dryers, Rotary Dryers, Granulation Plants, Powder Handling Systems, and more. We have a reputation for delivering optimal solutions to Various industries across Asia and beyond. Our focus on Technology, Service, and Customer Satisfaction drives our success.



## ZLD-Technology For A Sustainable Tomorrow

Raj Process is a leading provider of Zero Liquid Discharge (ZLD) plants, specializing in industrial wastewater treatment. With over 20 years of experience, we offer cost-effective and energy-efficient solutions to meet strict discharge regulations and address freshwater scarcity concerns. Our ZLD technology converts liquid waste into disposable dry solids and recycles high-quality water for reuse. We have extensive experience in treating industrial wastewaters from various sectors, including breweries, distilleries, food processing, chemicals, pharmaceuticals, and automotive industries.

# The Perfect Solution For Every Process

The wastewater quantity and quality varies from industry to industry and so do the Zero Liquid Discharge (ZLD) technology requirement differs. The waste water composition, various streams to be treated, site specific operating costs, foot print availability and other factors are determining factors for an optimal design. Raj Process offers Zero Liquid Discharge (ZLD) in various treatment & technology options.



## Technologies/Our Product Range

- Vertical tube Falling Film, Force Circulation Evaporators
- ZLD based on MEE ATFD technology
- ZLD based on MEE Centrifuge technology
- Integrated & Hybrid Evaporation Plant for Molasses based Distillery
- Stand-alone Evaporation Plant using Steam
- ATFE/ATFD
- ZLD on MVR technology
- Tube Bundle Dryer
- Solvent Stripper
- Spray Dryer
- Paddle Dryer

## Features of RAJ ZLD:

- Higher steam and power economy
- Simple construction that is easy to operate
- Reliable and cost effective solutions
- Carefully selected process scheme and material of construction taking into account the feed properties
- Optimal space requirement
- Skid mounted units up to certain capacities
- Capacity range from 1 KL/day to 10,000 KL/day
- PLC controlled systems
- Pure condensate from the system which can be reused in process
- Customer support for long term reliability

# Industries We Serve



Pharmaceuticals  
& Allied



Engineering,  
Cement & Steel



Dyes / Paint



Tyres



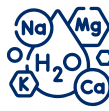
FMCG



Pulp & Paper



Chemical and  
Allied Industry



Mineral  
Processing



Electronics &  
Hardware



Fish / Meat  
Processing



Palm Oil



Landfill  
Leachate



Automotive



Power



Food



Distillery



Brewery

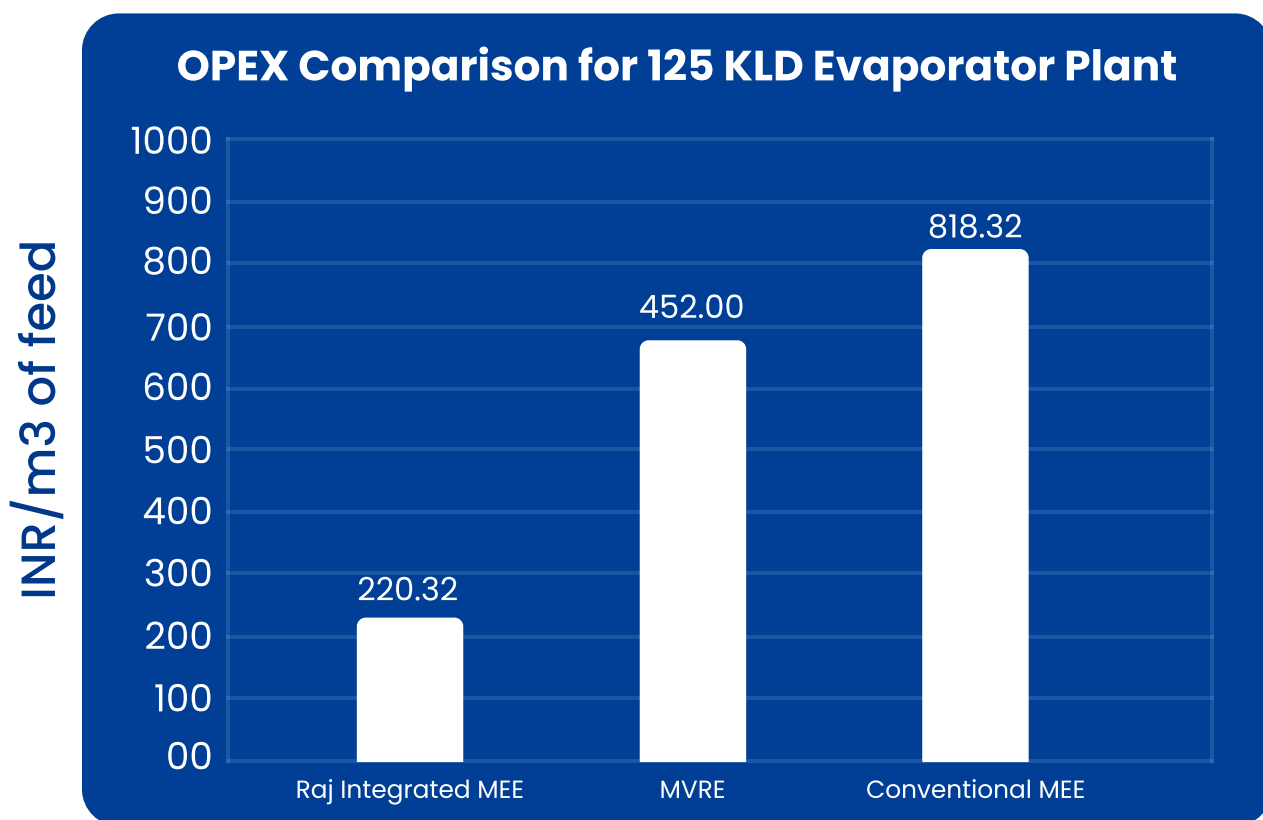


# CASE STUDY

## A Step Towards Sustainability

### Zero Liquid Discharge plant with RAJ ATFD/Dryer vapour integrated Evaporator

The customer from chemical industry was looking for a cost-effective technique to replace the conventional steam-based MEE's high operating cost and MVR based evaporators high capital and maintenance cost, the customer selected Raj Process to specially developed, designed, engineer, manufacture and supply the ATFD/Dryer vapour integrated Evaporator to enable customer to achieve ZLD at very low operating cost.



### Benefits

- Energy efficient as no additional electrical or thermal energy is required
- Simple & Effective Design
- Low OPEX
- Low maintenance

**“FOR THE ENVIRONMENT, FOR THE ECONOMY  
AND FOR A SUSTAINABLE FUTURE”**



# Our Other Offerings

## Turn- key Plants

- Distillery Plant – Molasses & Grain Based
- Guar Gum
- Detergent Powder Plant
- MCCP
- Starch and Glucose
- Zero Liquid Discharge Plant
- Nutraceutical Powder Plant
- Milk Powder Plant
- Herbal Extraction Plant
- Thermal Desorption Unit
- Fruit and Vegetable Processing
- CBG Plant

## Dryers

- Spray Dryer
- Rotary Dryer
- Spin Flash Dryer
- Flash Dryer
- Rotary Vacuum Dryer
- Paddle Dryer
- Continuous Fluid Bed Dryer
- Steam Tube Bundle Dryer
- Cone Screw Dryer

## Mixers

- Cone Screw Mixer (Nauta Mixer)
- Ribbon Blender
- Paddle Mixer
- Continuous High Speed Mixer
- Double Cone Blender
- Plough Shear Mixer
- Conical Blender
- Conche Mixer

## Process Equipments

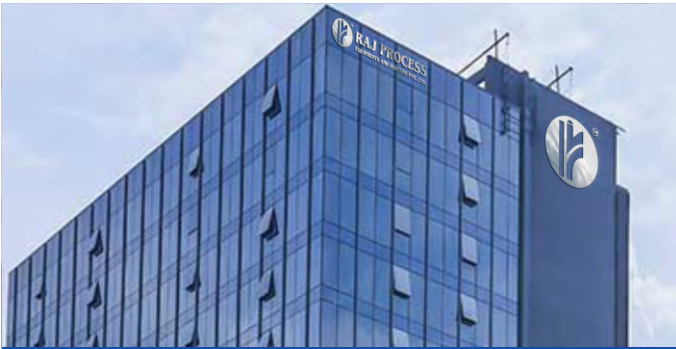
- Heat Exchanger
- Reactors
- Fermenter
- Dust Collection System
- Wet Scrubber
- Bag Filter
- Screw Conveyor
- Pressure Vessel
- Silos
- Crystallizers
- Blowers

## Boilers

- Multi Fuel Package Boilers with Integral Furnace
- Captive Plant High Capacity Boilers
- Waste Heat Recovery Boilers
- Thermic Fluid Heaters & Hotwater Boiler
- Turnkey Co-Generation Power Plant

# Infrastructure That We Have

We are one of the leading process equipment manufacturer from India. We have supplied our products and Services in India as well as in abroad. Our company is Certified with ISO 9001-2015, ISO14001:2015, BS OHSAS 18001:2007, ASME 'U' Stamp, 'S' Stamp, National Board 'R' Stamp.



## Corporate Office

Sadanand Business Center, Sr.No. 140/1, 14th Floor,  
Baner, Pune - 411 045 Maharashtra, India



## Unit I

Plot No. 166 & 167, Sector No.7. PCNTDA Bhosari,  
Pune - 411 026 (India)



## Unit II

Sr. No. 373, Village Kharabwadi, Chakan,  
Tal - Khed, Dist - Pune (India)



## Unit III

Plot No. -14, SEZ, Village - Nimgaon, Tal - Khed,  
Dist - Pune - 410505 (India)



## Unit IV

Get No. 530, Alp Ahire, Tal - Khandala,  
Dist - Satara - 412802 (India)



## Unit V

Gat No. 118/2, A/P- Wasuli, Tal - Khed,  
Dist - Pune - 410501 (India)

# Customers We Served

**BEC**  
CHEMICALS

**PRASOL**

**LARSEN & TOUBRO**

**Krebs**  
Krebs Biochemicals  
& Industries Ltd

**TATA**  
TATA CHEMICALS

**EXCEL**  
EXCEL INDUSTRIES LIMITED

**SARACA LABORATORIES**

**Clean**  
Science

**ALKA**  
LABORATORIES  
PVT. LTD.

**YAMAHA**

**ARIES**  
CHEMICAL

**GREAT GALLEON**  
VENTURES LTD.

**Aqua**  
Designs

**HY-GRO**

**PREMIER**  
ORGANICS

**QJBT**

**advanced enzymes**  
WHERE CHEMIE & LIFE

**Modipalm**  
Engineering SDN BHD

**FG GIDA**  
VE MAKINA

**MAXXIS**  
TIRES

**Zar**  
Group

**Goody**  
agrovet  
brighter farming

**STH**  
CHEMIE

**TYCHE INDUSTRIES LIMITED**

**PT. SINAR SYNO KIMIA**  
( Indonesia )

**Enviro Care**  
INDIA PRIVATE LIMITED

**UIC**

**Kores**  
Where Value is Tradition Since 1932

**HLL Lifecore Limited**  
(A Government of India Enterprise)

**Natural**  
NATURAL NEAR & ALLED INDUSTRIES LTD

**CENTURY**  
REFINERIES PVT. LTD.

**EMPEE**

**CAMSON**  
BIO TECHNOLOGIES LIMITED

**VIDHI**  
SPECIALTY FOOD  
INGREDIENTS LIMITED  
COLOURS (You Can Trust Your Food)

**UEM**  
CLEAN SOLUTIONS

**SRI**  
CHAKRABARTI  
ALDEHYDES

**Matrix Life Science**

**HERO**  
STEELS LIMITED

**SERVOTEC**  
smart power solutions

**Baramati agro**  
Linking the Basics

**PATANJALI**

**ethco**  
THAT'S THE SPIRIT

**GADRÉ**



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