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Tal - Khandala, Dist - Satara - 412802
Tel. - 020-40710010

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



Loyal to
Efficient Utilisation
of
**Natural
Feed Stock**



Total
Solutions
in
Distilleries





Introduction

Established in 2003, by the team of young and talented technocrats, Raj Process Equipment & System Pvt. Ltd. (RAJ) today, is amongst the fastest growing an engineering company providing the services of design, engineering, manufacturing and export of processing equipment and systems, with complete solution including turnkey projects.

Our name stands for the highly specialized service in the field of Distillation systems, Dehydration Technology, evaporators, spray dryers, rotary dryer, and powder handling systems, mixer, associated components and many more.

Our technical knowledge and expertise is the cornerstone of our company. In addition, the key to our success is providing responsive services to our customers' needs. The focus is always on achieving superior quality of installations matching the best in the industry at minimum investment and optimum production cost. To accomplish this, we have a dedicated team of engineers and industrial designers, who work in close coordination with our customers to design and develop plants exactly as per their requirements.

RAJ Process Equipments and System Pvt Ltd. Pune INDIA has acquired a well-deserved reputation for providing optimal solutions to the fermentation and distillation industries in India, countries of Asia and other continents. Well-engineered, innovative and effective turnkey plant solutions are our hallmark. Our success in building Turnkey Plants in India and Asia has led us to undertake mega-projects that contribute handsomely to the world's ethanol and distillery industry. Over the years technology, service and customer orientation are the key drivers of long-term business associations.

We at RAJ seek few moments of your time to devise means for forging long-term business relations and increasing value for your shareholders.

With scores of satisfied customer's and international quality installations to our credit, our association with you will be mutually fulfilling. RAJ specializes in providing turnkey solutions ranging from 5 to 500 KLPD for the manufacture of following tailor-made configurations using relatively all known sources of fermentable sugars like molasses, cane juice, grain, etc.

- Fermentation
- Distillation
- Rectified spirits
- Ethanol: Potable, Industrial & Fuel applications
- ENA: Extra Neutral Alcohol
- Multi pressure vacuum distillation
- Mole Sieve anhydrous plants
- Spent wash evaporators
- DDGS Dryer

History & Background

A decade ago, a group of self-motivated engineers decided to launch a first well-equipped fabrication firm in India, with a vision to provide GMP equipments to the chemical process industries. However, after lot of survey we all enter in Dryer, Evaporators and ethanol distillery industry, with professional and expertise activity to grow the business in terms as technology supplier. In the course of time, the distilleries and fuel ethanol plants become a specialized field of operations for RAJ with clients all over India and Asia.

This transition over a period saw RAJ becoming a successful turnkey supplier of distillery Plant.

And RAJ supplied its first Extra Neutral Alcohol plant using grains and molasses and which was

Commissioned in record time. With the thrust on continuously upgrading the technologies, designs and engineering standards /practices and on continuous innovations coupled with sound chemical engineering and microbiological study, RAJ got success to improve

the processes for grain cooking, continuous fermentation, multi-pressure vacuum distillation, molecular sieve dehydration systems and DDGS dryer for distillery and fuel ethanol plants.

RAJ is now executing number of projects all over the country and in overseas market. Some of them are:

- Molasses/ cane juice based distillery & fuel ethanol plant.
- Grain cooking, fermentation and ethanol plant.
- Molecular sieve based fuel ethanol plant.
- Multipressure ENA vacuum distillation plant.
- Ethanol based chemical plants.
- Waste water treatment plant for distillery.
- While designing the system we are more focused on
 - Higher through-put efficiency
 - Lower energy consumption
 - Reduced effluent volumes
- Adherence to International consultant & statutory norms
- Effective Project Management
- Self reliant manufacturing base
- Time bound Execution
- Problem solving approach

We, at RAJ, believe that manpower or human resources are our main strength or asset. All the physical and material resources assume totally new dimension if manned by qualified and dedicated team of technocrats. All our achievements and the rate of growth of RAJ is due to the dedicated efforts, knowledge and expertise of following key-persons:

Highly experienced and knowledgeable professionals man the set up at RAJ, which makes it possible to meet the challenges of the ensuring the turnkey plants commissioned successfully, meeting the modern requirements like technical creativeness, quality, workmanship and aesthetics in record time.

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Project & Construction Team

Project and Construction Team

The focus has also been given to the workmanship and quality control at the manufacturing workshop.

All the equipment manufactured by RAJ and its vendors confirm to the international designs, fabrication codes and procedures. The project team utilizes Primavera software for better scheduling and effective project management.

A vast experienced and dedicated team consisting of mechanical engineers, electrical engineers and are always on the move on 24 X 7 days basis to ensure all the projects are implemented in time and with quality.

Commissioning & After Sales Team

RAJ has been also solving the existing plant's technical problems and there are number of examples where RAJ has moved in and solved the difficult problems of quality and efficiency. RAJ is thus able to provide prompt and efficient services to its clients. Clients feel assured that RAJ engineers will be around them to help them in the moment of crisis and this is the simple secret of RAJ getting repeat orders in India and in overseas markets.

Commissioning & After Sales Team

Distillery Plant

Processes

- Fermentation processes for cane molasses, juice and grain.
- Distillation processes integrated distillation plant operating at Atmospheric, Vacuum, Multipressure for fuel alcohol, Potable alcohol, Industrial alcohol
- Superior fuel Ethanol Plant.
- Evaporator and Dryer for distillery effluents.



Fermentation

Our Fermentation system design based on crucial parameters which helps to reduce loses of alcohol in fermentors and increase the yeild of alcohol by controlling the unwanted byproducts.

- Fermentation systems for alcohol production are designed to handle a verity of feed stock.
- Sugarcane juice streams (primary, secondary, mixed, syrup, filtrate etc.)
- Cane Molasses
- Grains, (Wheat, Rice, Corn, Millet, Sorghum, Rye, Bajra etc.)





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Features :

- High Fermentation efficiency
- Minimal wastewater generation
- Yeast separation and recycle under gravity, eliminating need for expensive yeast separators.
- Flexibility to operate continuous as well as synchronised mode of operations, depending on characteristics of feed stock.



- Rugged operation
- Provision to tap high purity CO2

Distillation Process

We offer separation technologies with higher efficient multiple distillation column systems, Which operate at lower energy consumption and higher yield.

Features

- Multi product distillation systems.
- Low energy consumption.
- State of art in plant automation.
- Consistency in product quality.
- Minimum shutdown.

Features of Evaporation Systems

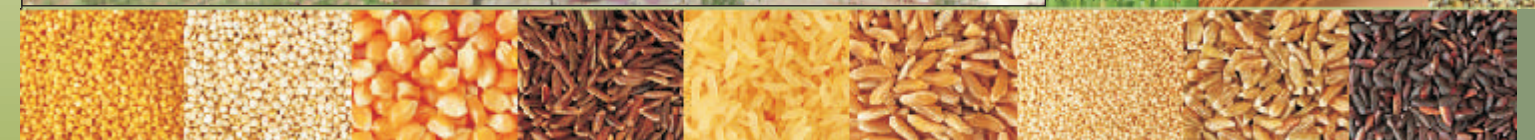
- Enhance water and waste minimization.
- Operated under vacuum or pressure.
- Fully automated systems to ensure consistent product quality.
- Process fluids with higher viscosities and also be handled effectively.
- No loss in production time.
- Comparatively less maintenance and operating cost.

Features of Drying Systems

- Low temperature drying which maintain quality of product.
- Fully automatic systems to ensure smooth and ease of operation.
- Due to radiation and conduction effects, the moisture get evaporated and product becomes progressively dry as it travels across the dryer and reaches the final moisture level at discharge point.
- Handles granular, free flowing solids.
- Uniform drying and cooling action with higher evaporation rates.
- Continuous operation with compact installations.

Services

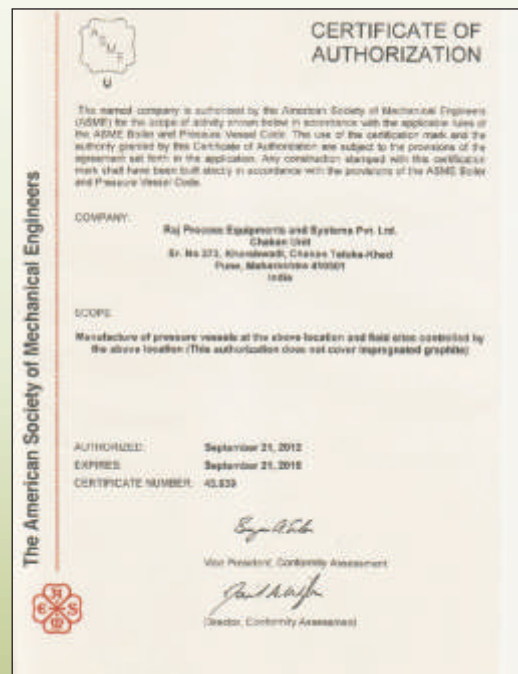
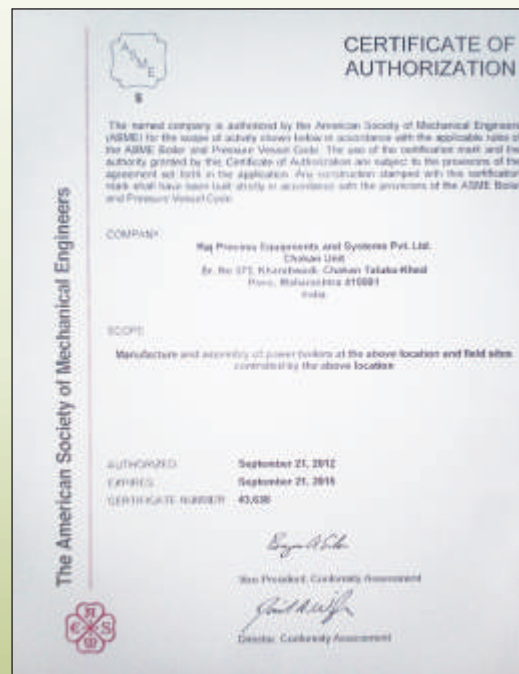
- Turnkey Plants
- Manufacture & supply of Equipments
- Engineering and Supervision of Civil, Structural
- Process and detailed Engineering.
- Project Management
- Commissioning and Training
- After sales support





Certifications

Certifications



Infrastructure & Facilities

Raj Infrastructure & Facilities

Corporate and state of the art engineering office

RAJ is a process-engineering house serving the dryer, Evaporator, distillery and bio-fuels industry with its strong team of professional engineers from various disciplines. The modern corporate office located in Akurdi Pune, India with networking facilities which is design hub for its domestic and international projects.

Fabrication and quality testing facility

RAJ today has a manufacturing base in PUNE India of 4 workshops capable of manufacturing around 20 large sized distillery and Ethanol projects per year. Many International third party inspection and quality conformance agency certifies the engineering & fabrication drawings, actual fabrication and shop floor activities thereby adding value to our quality manufacturing set-up.

Manufacturing Facilities

We have four manufacturing units, of which, one is for exports. We have our manufacturing facility in Khed SEZ, near Pune on Pune Nasik National Highway. Second unit is in Bhosari Industrial Area nearby Pune, which is dedicated to R&D, that ensures products with unmatched quality, Third one is in Chakan area, and Fourth one is upcoming in Shirval, Near Pune.

Bhosari Unit

(R&D Unit & Electrical Automation)

This is available with the land of 800 Square Meters area totally covered.

These manufacturing units are laced with the Hi-tech pilot facilities and testing equipments. The facilities are backed by the team of experienced engineers who work efficiently to achieve complete customer satisfaction. The design department of our company is equipped with software's that enable us to design the product on computer and develop it according to the industry specific need of the customer. Bhosari Unit is dedicated for R&D to ensure products with unmatched quality.

Chakan Unit

(Stainless Steel and Special Equipments)

Our Chakan unit has separate divisions for manufacturing different products. The uniqueness of the

Bhosari Unit



Chakan Unit





Network

plant is it has all the fabrication processes in house which makes it to manufacture a product much faster than competitors. The area covered by Chakan Unit is 20000 Square Meters.

Khed Unit / Pabal Unit

(Export house)

This unit is located in First Multiproduct Special Economic Zone, Pune developed by Kalyani Group. Khed Unit is dedicated to exports and SEZ orders only. We have complete manufacturing set up as per International Norms. This is available with the land of 20000 Square Meters area.

Shirval Unit

(Carbon Steel and Heavy Fabrication)

Due to increasing demand for our products we are expanding our manufacturing facility at Shirval in Satara District. The manufacturing facility started functioning from July, 2013. This new facility is in 14 acres.



Shirval Unit
(Khandala)

Marketing Network

Raj Process Offices and Marketing Network:

Raj has a strong domestic as well as International Marketing network.

Marketing offices in Delhi, Chennai, Ahmadabad, and Hyderabad in INDIA.

And Malaysia, Indonesia, Ukraine, Russia, Israel, Dubai, Nigeria, Kenya, Ethiopia etc Internationally.

Our Esteemed Customer

ADVANCE ENZYME PVT. LTD.



GADHINGLAJ AGRO DISTILLERIES PVT. LTD.



EMPEE SUGAR AND CHEMICALS PVT. LTD.



KISANVEER SAHKARI SAKHAR KARKHANA, SATARA



GREAT GALLEON LTD.



HINGURANA DISTILLERIES PVT. LTD.



OASIS ALCOHOL PVT.LTD.



PREMIER ORGANICS



MANJARA SAHKARI SAKHAR KARKHANA



HOIMA SUGAR LTD.



ATHANI SUGAR LTD.



BWENDERO DAIRY FARM, UGANDA.



JOGESHWARI BREWERIES PVT. LTD.



KHANDOBA DISTILLERY LTD.

