



Est. 1976

**Manufacturer & Supplier of  
Extra Neutral Alcohol & Ethanol Plants  
&  
Efficient Energy Integrated Distillation**



# Shrijee Fermentation Technology

Shrijee has proven technologies to handle various feed stocks. We design fermentation system as per client's requirement based on availability & quality of different feed stock.

We have proven technologies for following feed stocks

## A Sugar Based Feed Stock

- Final molasses, molasses A, B and C
- Sugar cane juice, primary, secondary or sugar cane syrup

## B Starch Based Feed Stock

- Wheat, corn, broken rice, sorghum, rye
- Cassava, tapioca

## Continuous Fermentation

- Continuous process
- Constant product quality
- Good utilization of fermenter capacity
- Easy to operate
- Higher efficiency, less operating manpower required
- The process can also be automated with less cost and great ease
- Easy to control & trouble shoot, as it is a continuous process



## Fed-Batch Fermentation

- Higher alcohol percent
- Higher yield
- Less effluent
- Lower residence time also helps to maintain low bacterial activity
- Higher alcohol concentration ensures low bacterial activity in fermenters
- Suitable design to handle multiple feed stock

# Distillation Technology

Shrijee offers efficient, proven and easy to operate distillation system ensuring desired products with quality norms and quantity.

We have distillation technologies for effective and efficient distillation designed on the basis of final product.



## Efficient Distillation

Distillation system designed for lowest possible steam consumption. Assured Low COP

- Low Steam Consumption
- Vacuum-Pressure Combination
- Best product quality

## Absolute Distillation

Ensures potable grade alcohol with fine quality.

- Produce super fine alcohol/ extra neutral alcohol
- Optimum use of copper and reflux ratio
- Vacuum-pressure combination
- Minimal human interference
- Best quality with purity
- Used for potable grade



# De-Hydration Distillation

Technology used for making ethanol with 99.8 % alcohol.

- Efficient use of 3A molecular sieves
- Lowest steam consumption due to heat integration
- Fully automatic
- High ethanol dryness with Long life of molecular sieves
- Simple and easy to operate



## Evaporator & Dryer to Achieve Zero Liquid Effluent Discharge

Shrijee provides evaporation system to achieve a zero-liquid pollution discharge. This is important for running distillery and also safe for environment. We provide solution - Waste to Re-Use.

We have technologies for handling Raw/ Bio-methanated - spent wash / vinasses to achieve zero liquid discharge with lowest possible OPEX and minimum possible CAPEX.

### Highlights of System:

- Proven technology and ZLD to Re-cycle approach
- Different evaporation like falling film, forced circulation and combination of both, as per client requirements and type of spent wash
- Heat Integration for low steam consumption
- Less shut down for CIP
- Integrated evaporation scheme (Evaporation without Steam)
- Stand alone evaporation scheme
- Concentration up to 5 % moisture and converting in to powder form
- Recycle of process condensate in process through Condensate Polishing Unit (CPU)



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### Shrijee Group

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