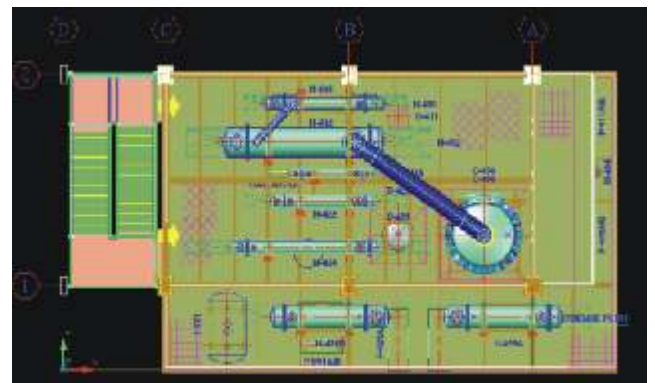


# Furfural Distillation and Dehydration Plants : ECOFINE-FD

Process designed to have minimum moisture content in Product Furfural and better separation of low boiling impurities, to meet the required standards. Temperature profiles maintained across the process to minimize the polymerisation reaction and avoid loss of Furfural.

## Highlights of ECOFINE FD Technology :

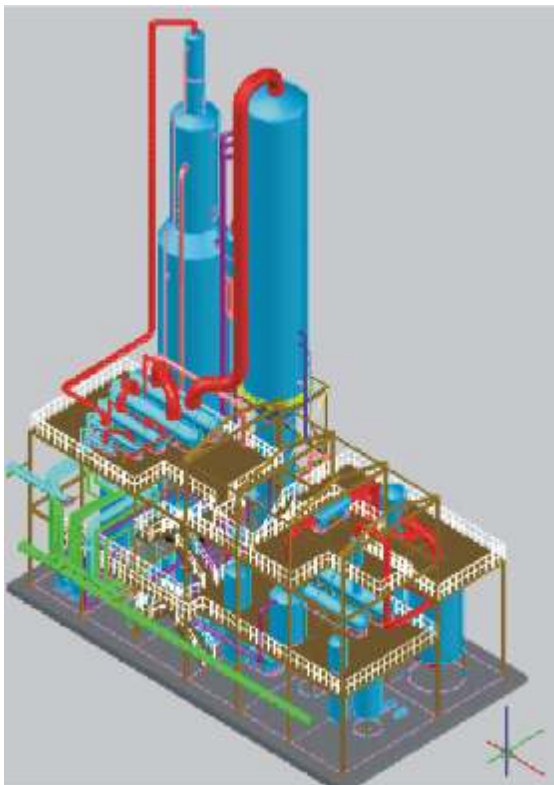
- Energy efficient Multi-pressure ECOFINE Distillation system
- Optimal heat usage to conserve energy
- Vacuum operation reduces loss reaction and polymerization of Furfural
- Well-engineered plants with high efficiency trays to ensure elaborate separation and removal of impurities ensuring superior quality of Furfural
- Design of calming zone on trays, large area of down-comers, gas-liquid separators with tangential entry and vapour bottles ensures proper gas-liquid disengagement and eliminates chances of liquid carryover.
- All columns with specially designed Hyper-stat Rh-Grid trays ensure high turbulence on tray, this minimizes chances of scaling and choking. Also, this special construction of trays and access to each tray helps in easier cleaning of column internals.
- Condensers designed with multiple passes to ensure high velocity and to minimize scaling inside tubes.
- Preheated Feed helps in proper stripping of Furfural from water.
- Decanters to ensure proper separation of Furfural Water azeotrope.



## Reference :

Arcoy Biorefinery Pvt. Limited,  
Ahemadabad, Gujrat, India.

# ECOFINE Energy Integrated High Efficiency Solvent Recovery Plants



## Principles

- Classical heat and mass balance principles applied to deliver energy integrated systems
- Highly efficient column internals for ensuring better separation

## Types

- Azeotropic Distillation
- Extractive Distillation
- Liquid -Liquid Separation
- Molecular Sieve Dehydration

## Highlights

- Multiproduct distillation system to products as per stipulated standards
- Energy conservation through multi-pressure distillation
- Maximization of production by using multi-pressure distillation techniques
- Plant automation based on SCADA/PLC
- Consistency in product quality

## ECOMOL Molecular Sieve Dehydration

- State of the art pressure swing adsorption based molecular sieve dehydration
- Designed for reliable and foolproof performance, meeting most stringent quality norms.
- Bringing you experience of over 100 plants of varying capacities.

## Highlights

- High Product dryness
- Lowest energy consumption
- Higher dessicant (Molecular Sieve) life

Plants optimised for quality, energy and operational ease

