



knowledge engineering planning

Industrial & Environmental Solutions

KEP Engineering Services Pvt. Ltd.

Hyderabad, India.

ISO 9001:2008 certified company

Company Introduction

- ◆ KEP was incorporated in 2010
- ◆ Genesis belongs to technocrats
- ◆ Core business area is ZLD, MEE, ATFD & Distillation Columns
- ◆ Team of over 50 professionals working onsite & offsite
- ◆ Well equipped manufacturing facility located at Dhoolapally, IDA Jeedimetla, Hyderabad.
- ◆ Executed more than 60 projects for MEE & ATFD



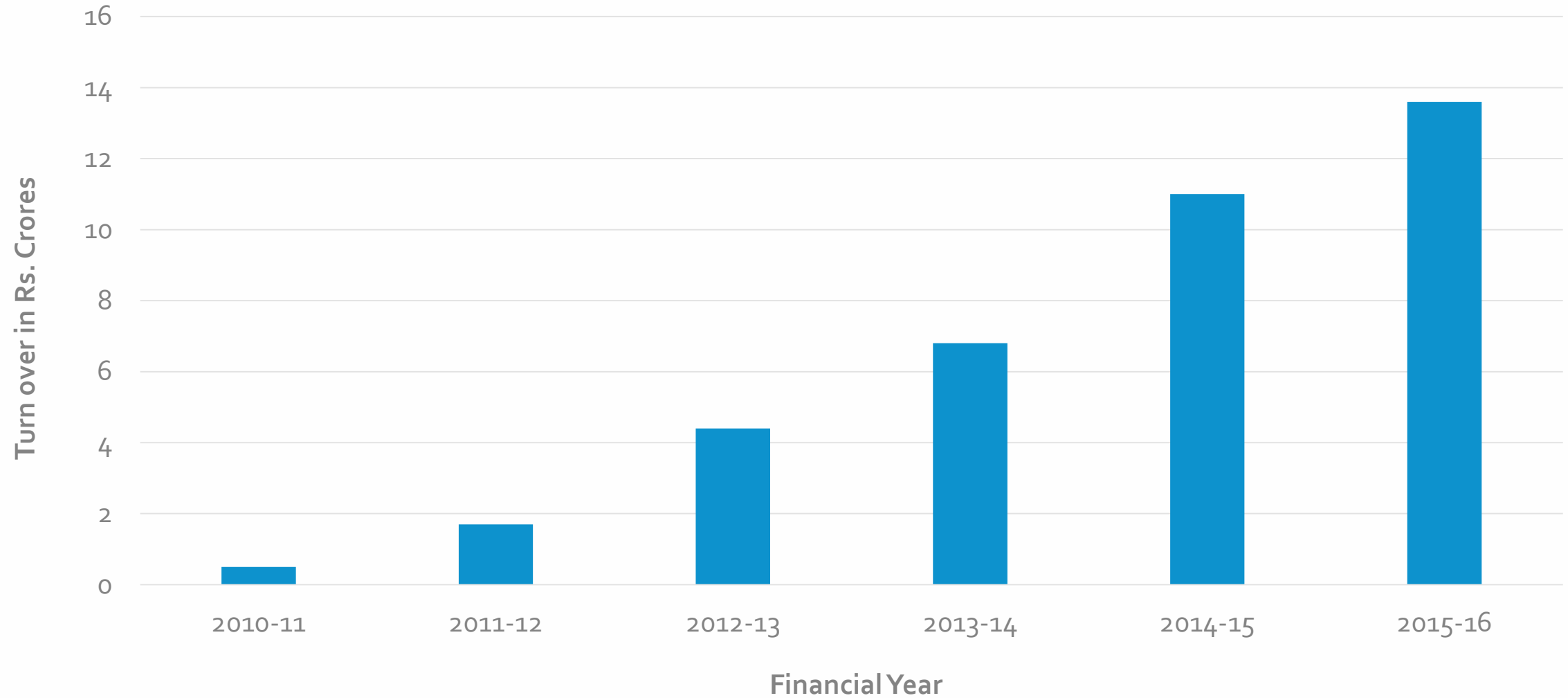
- ❖ Mission: To be pioneers in the area of Environmental solutions and Industrial processing by offering superior technology and service to our customers.
- ❖ Vision: Strive to become a world class organization ensuring customer satisfaction by delivering value through Quality, Innovation and unparalleled service.

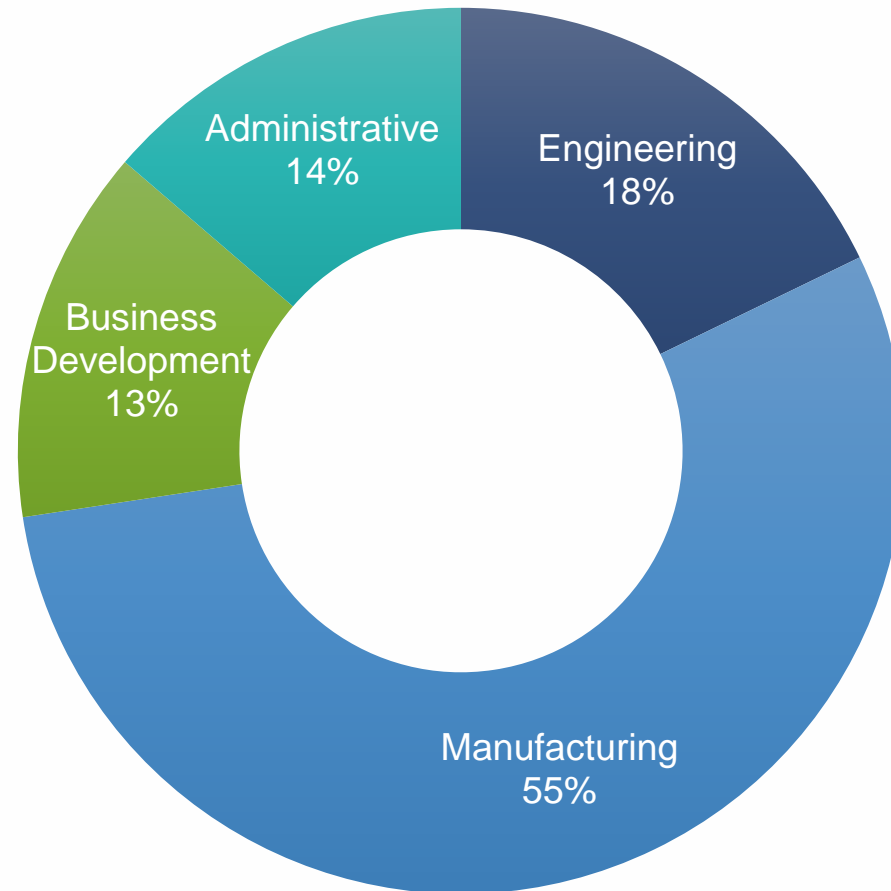


- ❖ All the stages, right from techno commercial discussions till post operative services are handled by our Expert Engineers.
- ❖ No financial debt from Banks.
- ❖ Good relationship with customers.
- ❖ Reputation for innovation
- ❖ ISO 9001:2008 certified company
- ❖ Comply with applicable Environmental, Health and Safety (EHS) legislation and statutory, regulatory and other requirements.

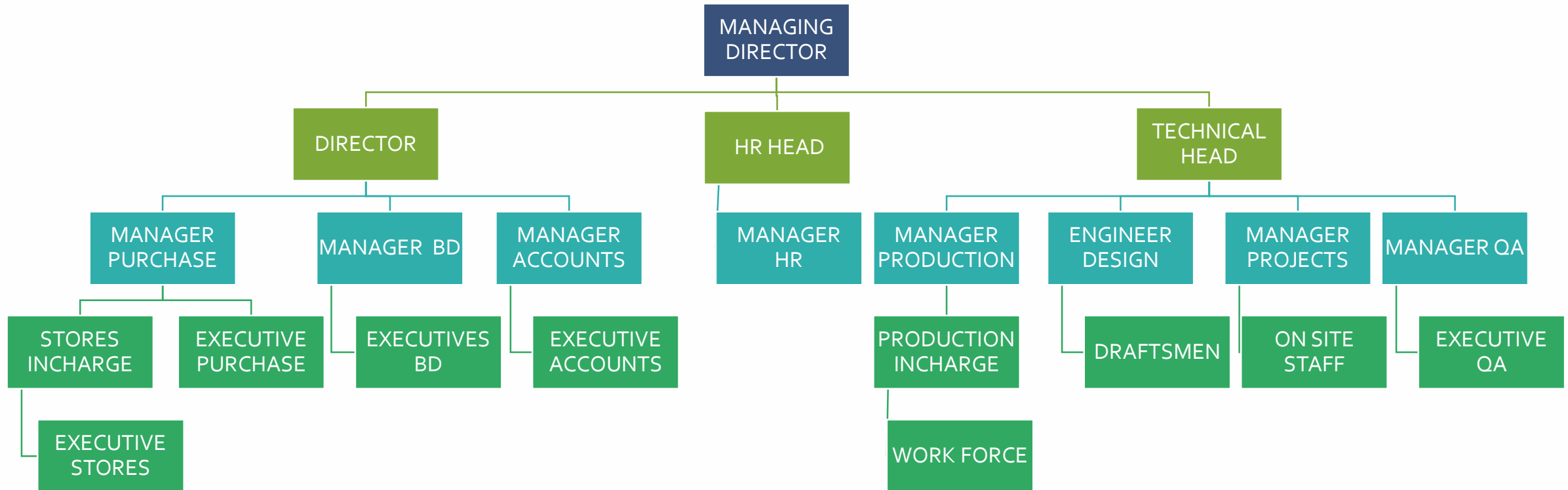


Facts & Figures





Organization Structure



Environmental Solutions

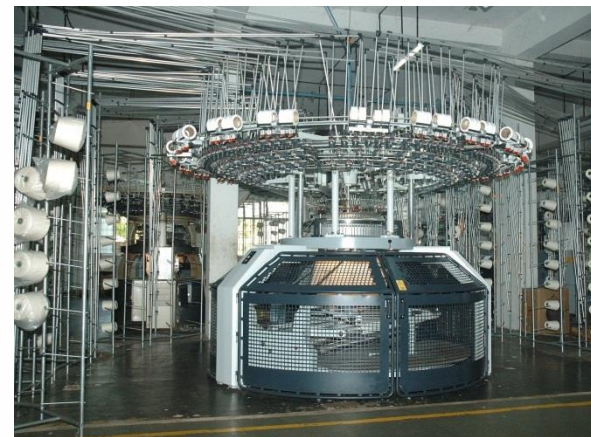
- ◆ Primary treatment
- ◆ Secondary treatment
- ◆ Tertiary treatment
- ◆ Stripper column
- ◆ Multi Effect Evaporator
- ◆ Agitated thin film dryer

Engineering Solutions

- ◆ Heat exchanger
- ◆ Crystallizer
- ◆ Distillation column
- ◆ Gas scrubber
- ◆ Basic and detailed engineering
- ◆ Process design

Target Industries

- ❖ Chemical Industries
- ❖ Petrochemical Industries
- ❖ Food & Beverage Industries
- ❖ Textiles Industries
- ❖ Oil & Gas Processing
- ❖ Pharmaceutical Industries
- ❖ Agrochemicals Industries
- ❖ Bulk Drugs and Dyes Industries
- ❖ Solvent Recovery Units





Environmental Solutions

Primary

- ❖ Mechanical Screen
- ❖ Oil and grease removal
- ❖ Equalization/Neutralization
- ❖ Chemical Dosing
- ❖ Tube settler

Secondary

- ❖ Anaerobic digester
- ❖ Aeration
- ❖ MBBR technology
- ❖ Secondary tub-settler

Tertiary

- ❖ Ultrafiltration
- ❖ Reverse osmosis
- ❖ Nano filtration

Stripper Column

KEP holds expertise in manufacturing different type of stripping column for solvent recovery from effluent feed stream.

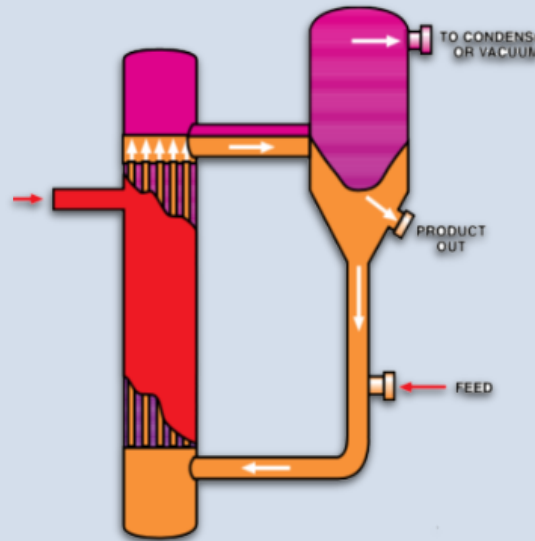
- ◆ Packed Stripping Column

- ◆ Tray Stripping Column

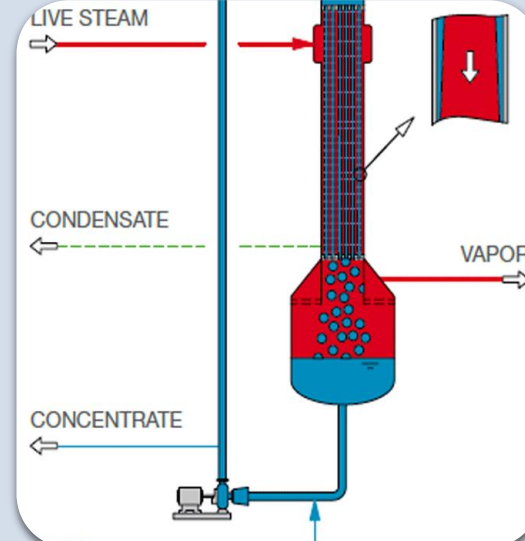
KEP successfully supplied stripper columns in multiple pharmaceutical Industries, in which Low-boiling solvents were recovered from the effluent before feeding to Multi Effect Forced Circulation Evaporator.



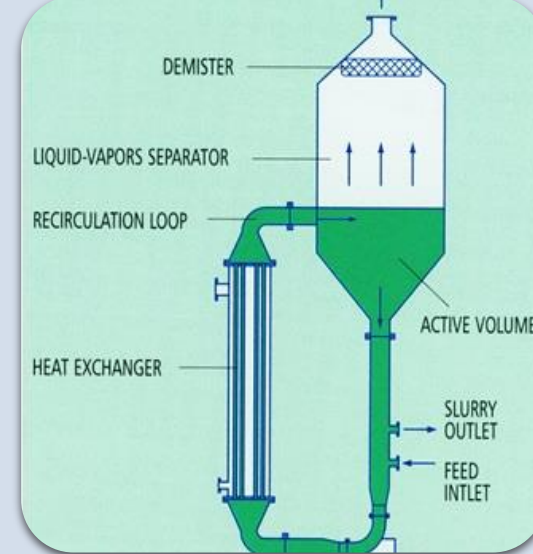
Types of Evaporator



Raising
film
Evaporator

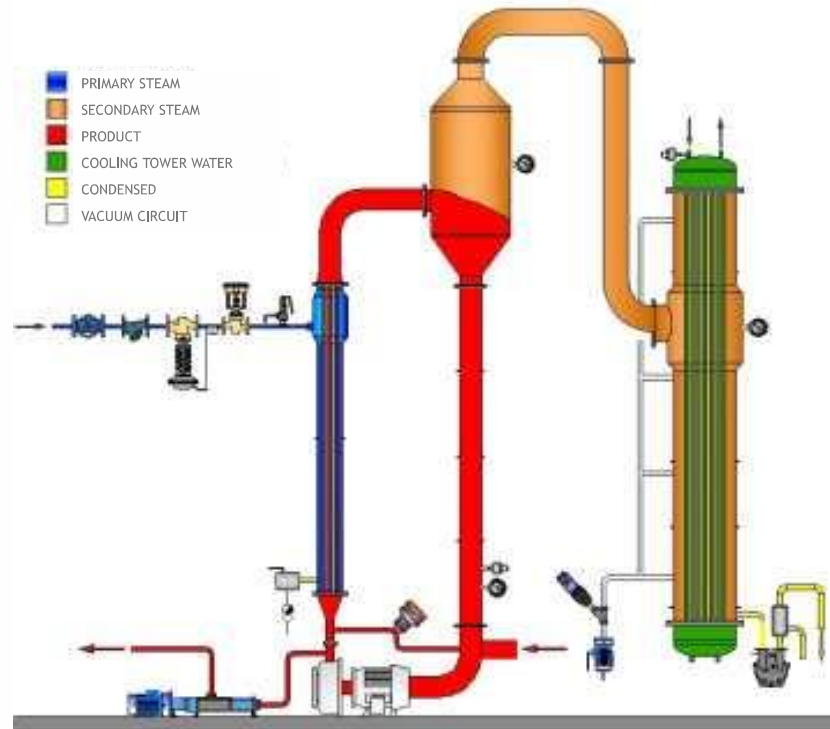


Falling
film
Evaporator

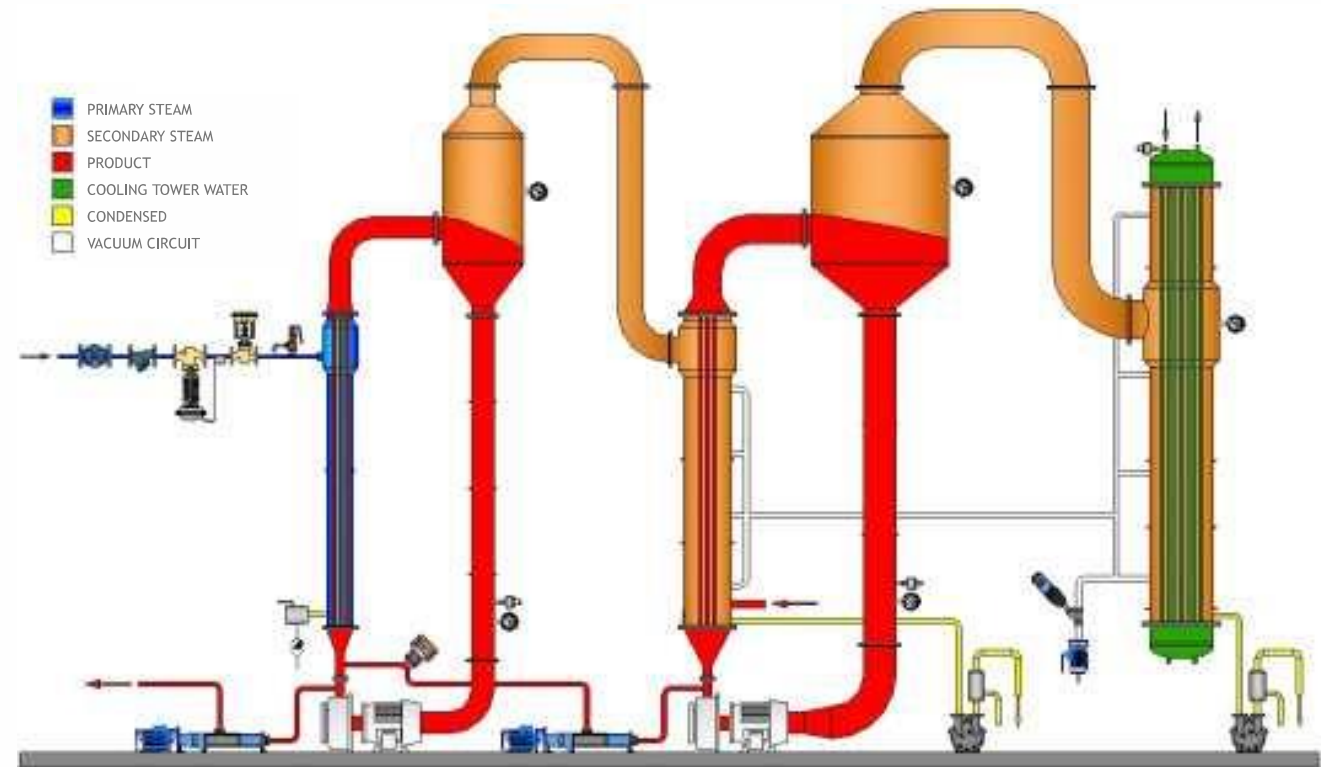


Forced
Circulation
Evaporator

Multi Effect Evaporation

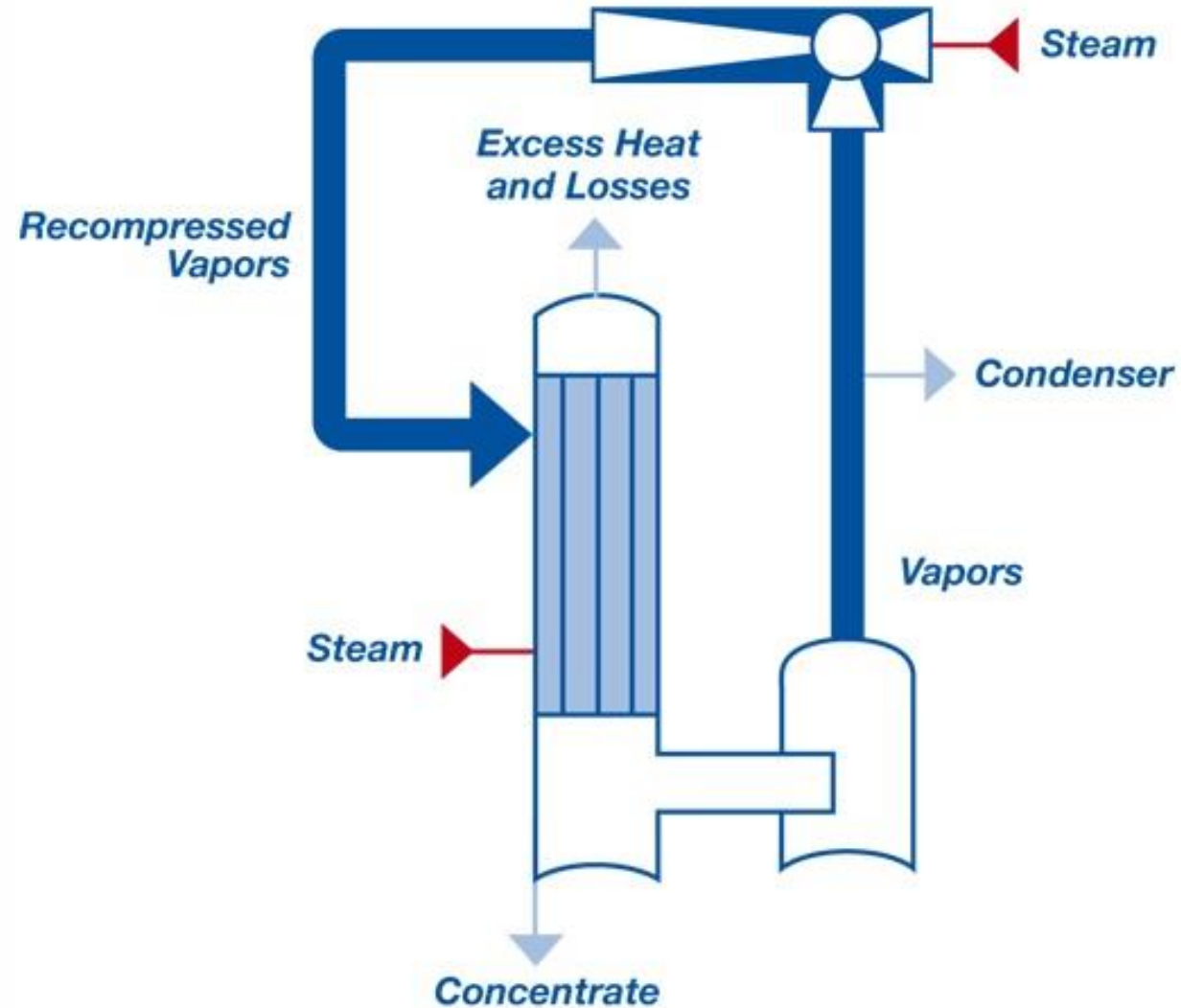


Single Effect Evaporator



Double Effect Evaporator

Application of TVR



- ❖ Industrial effluent concentration
- ❖ Brine liquid concentration
- ❖ Recovery of metal salts
- ❖ Concentration of pharma and textile effluent
- ❖ Pharma product concentration
- ❖ Concentration of RO reject till saturation of salts in dissolve liquid
- ❖ Secondary treatment
- ❖ Dairy industry for milk evaporation
- ❖ Fruit and tomato juice concentration



Agitated Thin Film Dryer



Concentrated
Effluent From
MEE



Condensate Water



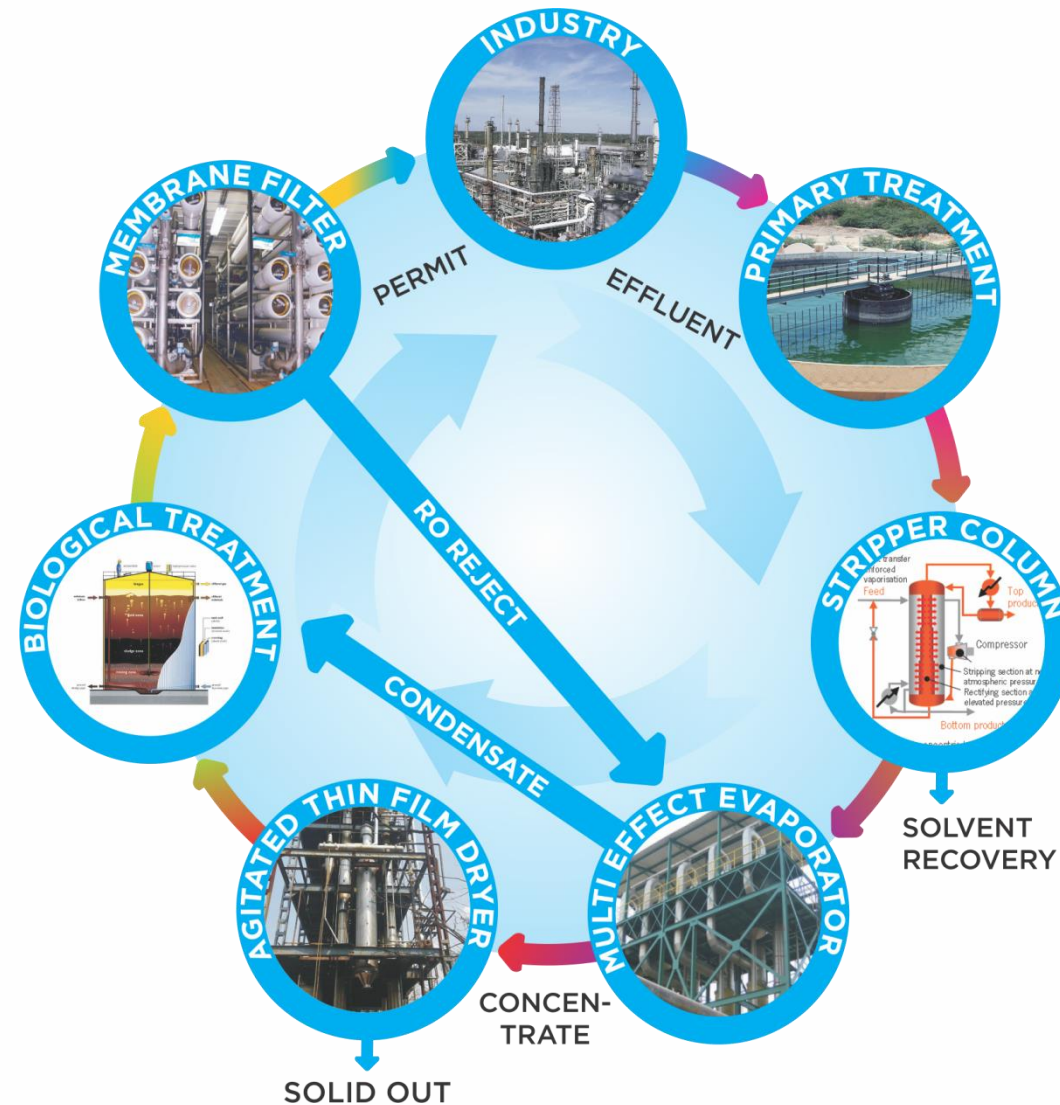
Dry Solid Outlet

- ❖ Pharmaceutical Industries
- ❖ Textile Industries
- ❖ Agro Chemicals- Dyers
- ❖ Pigment Industries
- ❖ Chemical & Petro-Chemical Industries
- ❖ Sugar Industries & Distilleries
- ❖ Effluent Treatment Plants



10 sq.m ATFD
for Effluent
concentration

Zero Liquid Discharge





Engineering Solutions



Heat Exchanger

- ❖ Shell & tube heat exchanger
- ❖ Plate type heat exchanger
- ❖ Graphite shell and tube heat exchanger
- ❖ Economizer
- ❖ Air cooler



Column Internals

- ❖ Structured packing
- ❖ Random packing
- ❖ Trays (Bubble cap, Sieve tray etc.)
- ❖ Column internals (distributors and collectors)
- ❖ Phase separators

Distillation Technologies

- ❖ Continuous and batch distillation
- ❖ Single- and multi-stage distillation
- ❖ Extractive distillation
- ❖ Azeotropic distillation

Application of Distillation Column

- ❖ Methanol recovery distillation column
- ❖ Ethanol recovery distillation column
- ❖ Toluene - THF distillation column
- ❖ IPA- water separation system





A Glimpse of our successful Projects



Porus Laboratories

Evaporation Plant

Capacity: 115 KLPD

Akkireddygudem, Vijayawada



Eytan Labs Limited

Evaporation Plant

Capacity: 50 KLPD

Kazipally Industrial Area.



Kumar Organic Products Ltd.

**Erection of Evaporation
Plant**

Capacity: 40 KLPD

Hassan Industrial Area,
Karnataka, India



Hetero Drugs Limited

Agitated Thin Film Dryer

Capacity : 500 kg/hr

Bonthapally Industrial Area

- ❖ India is a big market for the business we deal with. The growth rate of Chemical industries in India is on a rise and the environmental regulations have become more stringent. This gives us a huge business potential.
- ❖ We are looking for a business partners or Collaboration in flexible mode to establish KEP's presence across the world.
- ❖ KEP is open for diversification of the business on agreed terms between the organizations.



Contact Us

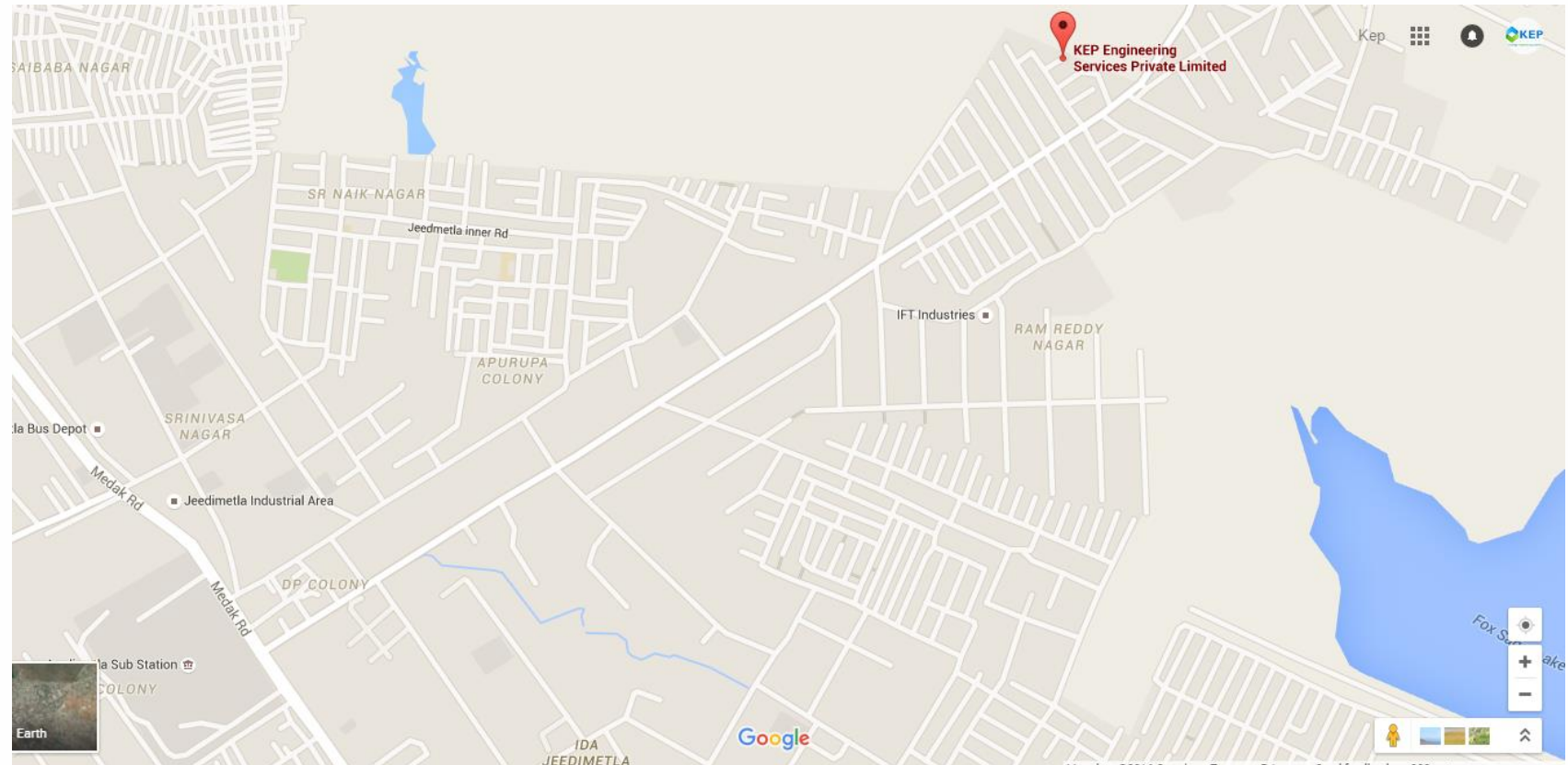
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Thank You

