



An ISO 9001-2008 Company



KETAV
Consultant

SOLUTION OF WASTE WATER EFFLUENT BY EVAPORATION SYSTEM FOR ZERO DISCHARGE



Head Office :

03, Nandanvan Bungalows, Vibhag-2,
Opp. G.E.B. Substation, Naroda – Dahegam Road,
Nava Naroda, Ahmedabad-382330,
Gujarat, India.

Works :

Plot No. 26, 27, 28, Block No.-518, Juna Babalpura Patia,
Village-Sapa, Taluka-Dahegam-382305 Dist. Gandhinagar,
Gujarat-INDIA. Tel. No. 02716-295205 Mo.: +91 98790 97517

Branch Offices :

• Tamilnadu • Mumbai • Ankleshwar • Hyderabad • Punjab

www.evaporatorplants.com

www.evaporatorsplant.com

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Product Range

- **Multiple Effect Evaporator Plant**
 - Falling Film Evaporation Plant
 - Forced Circulation Evaporation Plant
 - Natural Circulation Evaporator Plant
 - Caustic Recovery Plant
 - Product Concentration Plant
- **ATFD**
- **Distillation Plants**
- **Stripper System**
- **Crystallizer System**
- **Vacuum System**
- **Vacuum Ejectors**
- **Pumps : Vacuum Pumps, Process Pumps & High Pressure Pumps**
- **Heat Exchangers & Condensers**
- **Scrubber System**
- **Deformer, De Scaling and**
- **Anti Scaling Chemicals**

Our Achievement

1. We have Supplied Maximum Plants in India. For Common Effluent Treatment Plants. For Tannery & Textiles Industry. Supplied-09 NOS Plants in Last 03 Years in Tamilnadu.
2. We have Supplied Maximum Plants in India. For Textile & Dyeing Industry. Supplied-85 NOS Plant in Last 08 Year.
3. We have Supplied 22 NOS Plants in Pharmaceutical Industry
4. We have Supplied Products Concentration Plants In India. For Different type of Products. Supplied-40 NOS Plants.
5. We have Supplied MEE Plant for Dyes & Dyes intermediate, Pesticide ,Organic Chemicals , Steel Industry Etc. Supplied - 32 NOS Plants.
6. We have done successfully revamping and improvement of Multiple Effect Evaporation Plants Supplied by Other Manufacture. For Increase the Capacity & Smooth Operation. We have done 25 Nos Plants revamping

We have Supplied our Multiple Effect Evaporation Plant in Different Industry for Different Products. As mention below.

• Waste Water Treatment • • Product Concentration • • Dairy & Food Products •

- | | | |
|--|---|--|
| <ol style="list-style-type: none"> 1. R.O.Reject 2. Mix Salt Recovery 3. Pharma Industry Waste Water 4. Automobile Industry Waste Water 5. Food colour Industry Waste Water 6. Chemical and Organic Chemicals Waste Water 7. Common Effluent Treatment Plants 8. Dye Bath Water 9. Spent Wash 10. Steel Industry Waste Water | <ol style="list-style-type: none"> 1. H2So4 Concentration 2. HCL Concentration 3. Nitric Acid Concentration 4. Dextrose & Glucose 5. Amino Acid 6. Sodium Formate | <ol style="list-style-type: none"> 1. Milk 2. Food Colour 3. Herbal Extract 4. Sugar Cane Juice 5. Fruit Juice 6. Tea / Coffee Extract |
|--|---|--|

Product Recovery

- | | | |
|--|--|---|
| <ol style="list-style-type: none"> 1. Zinc Sulphate 2. Sodium Sulphate 3. Sodium Nitrate and Sodium Nitrate | <ol style="list-style-type: none"> 4. Ammonium Sulphate 5. Caustic Recovery 6. Magnesium Sulphate | <ol style="list-style-type: none"> 7. Sodium Chloride 8. Sodium Thio Sulphate |
|--|--|---|

► Supply MEEP in Common Effluent Treatment Plants.

Name Of Party	Product	Place	Capacity (KLD)
Vanitec CETP Ltd	Tannery Waste Water	Tamilnadu	630
Murugapalayam CETP	Sodium Chloride	Tamilnadu	500
Arulpuram CETP	Sodium Sulphate	Tamilnadu	300
Andipalayam CETP	Mix Salt	Tamilnadu	220
Park CETP	Sodium Chloride	Tamilnadu	200
Angeripalayam CETP	Sodium Chloride	Tamilnadu	200
Rayapuram CETP	Mix Salt	Tamilnadu	100+ 60
Kunnanakalpalayam CETP	Sodium Sulphate	Tamilnadu	150



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About Us

- KETAV CONSULTANT is a well Established and growing Engineering company which was founded in 2005.
- KETAV CONSULTANT has achieved commendable success in Designing, Manufacturing, installing and Commissioning of Multiple Effect Evaporator Systems in short span of time.
- The Company provides all kind of Operational and Process Solution related to different Industries. This results in Cost and Energy Efficient System.
- We have leading service provider for Design, Engineering, Manufacturing and supply of Turn Key Projects for Multiple Effect Evaporation Plant for Zero Liquid Discharge System and Product Concentration System.
- KETAV CONSULTANT has installed more than 200 Evaporators for Different type and applications. The Company has also Supplied other Systems like Vacuum Systems, Heat Exchangers, Ejectors, Condensers and other Equipments.
- **Head office & Workshop located at Ahmedabad.**
- **Branch offices at Hyderabad, Tamilnadu, Mumbai & Ankleshwar.**

Our Achievement

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- **Crystallizer System**
- **Vacuum System**
- **Vacuum Ejectors**
- **Pumps :** Vacuum Pumps, Process Pumps & High Pressure Pumps
- **Heat Exchangers & Condensers**
- **Scrubber System**
- **Deformer, De Scaling and**
- **Anti Scaling Chemicals**

Application of Multiple Effect Evaporation Plant in Different Industry for Different Products.

• Waste Water Treatment •

1. R.O.Reject
2. Mix Salt Recovery
3. Pharma Industry Waste Water
4. Automobile Industry Waste Water
5. Food colour Industry Waste Water
6. Chemical and Organic Chemicals Waste Water
7. Common Effluent Treatment Plants
8. Dye Bath Water
9. Spent Wash
10. Steel Industry Waste Water

• Product Concentration •

1. H2So4 Concentration
2. HCL Concentration
3. Nitric Acid Concentration
4. Dextrose & Glucose
5. Amino Acid
6. Sodium Formate



• Dairy & Food Products •

1. Milk
2. Food Colour
3. Herbal Extract

4. Sugar Cane Juice
5. Fruit Juice
6. Tea / Coffee Extract

• Chemical Salt Recovery •

1. Zinc Sulphate
2. Sodium Sulphate
3. Sodium Nitrate and Sodium Nitrate
4. Ammonium Sulphate

5. Caustic Recovery
6. Magnesium Sulphate
7. Sodium Chloride
8. Sodium Thio Sulphate

► Multiple Effect Evaporator Plants

1. Falling Film Evaporators
2. Forced Circulation Plants.
3. Electric Evaporator Plants.
4. Natural Circulation Plants

Capacity Range: 10Kg/hr to 60000Kg/hr.
System: Single Effect to Five Effects or more.

► Agitated Thin Film Dryer

1. In This System a thin layer of solution OR Mother. Liquor of Waste Water is spared on the heating surface of the ATFD inner Shell.
2. In Jacket apply Steam for Heating of the same Liquid.
3. Solid OR Powder is coming bottom side having 10 to 15 % Moisture.

► Distillation Plants

- We also supplied distillation plant for METHANOL OR other Solvents recovery.

► Stripper Systems

- In Stripper System recover the low boiler from the top of the column. Used to reduce COD from Feed.
- Before taking feed to MEE plant Used to recover Low Boiler Solvents.

► Vacuum Systems

- Used to create vacuum in the Distillation, Rectors, Evaporators , Crystallizers, Vacuum Dryer , Nutch Filters Etc in all type of the industry.

To achieve Vacuum 450mmHg to 760mmHg.

1. Liquid Jet Ejector
2. Steam Jet Ejector

► Heat Exchangers & Condensers

- Heat Exchangers are used in all type of the industry to transfer of energy in the form of heat from one Fluid to another Fluid

1. Shell & Tube Heat Exchangers.
2. Plate Type Heat Exchangers.
3. Condensers. – Shell & Tube Type & Direct Contact Type.

► Crystallizer System

- Crystallization is used for the Production , purification and recovery of solids. Crystalline Products have an attractive appearance , are free following , and easily handled and packaged.
- We have supplied Crystallizer for products like: Sodium Sulphate, Sodium Chloride , Sodium Thio Sulphate, Zinc Sulphate , MgSo4 , Sodium Formate, Ammonium Sulphate , Ammonium Chloride etc.

► Centrifugal Pumps

We are Manufacture and Supplying Centrifugal Pumps for Process application for Evaporation Plants , Cooling Towers Etc. For Different application in all type of Industry.

► Vacuum Pumps

We are Manufacturing all type Water Ring Vacuum Pumps. In Different MOC.Used to Create Vacuum From 680mmHg to 720mmHg.
Types : Single Stage & Two Stage Water Ring Vacuum Pumps. Range Available : 01 HP to 60HP.



High Pressure Pumps

Available in Range from 02 HP to 60 HP. Pressure Range From 10 kg/cm² to 600kg/cm². Used In the Cleaning of the Tubes Of Evaporator Plants , Heat Exchangers , Condensers , Boiler Etc.

Mechanical Vacuum Boosters

Boosters are increasing the vacuum of process. vacuum Booster can be used over a wide working Pressure from 100 Torr to 0.5 Torr with suitable arrangement of the backup pumps,
1-Can be integrated with any installed Vacuum system like Ejectors , Vacuum pumps , etc.
2-Vacuum Boosters are power Efficient

Waste Water Treatment Systems

All type of waste water Treatment available to achieve Zero Discharge of the Waste Water.

1. ETP Plant.
2. Sand Filters.
2. Activated Carbon Filters.
3. Softner Plants
5. RO Plants.

Waste Water Treatment Chemicals

We are also manufacture are supply following chemicals. it is widely used in the Waste

1. De Scaling Chemicals.
2. Anti Scaling Chemicals.
3. Anti Foaming Chemicals.

Workshop



Claris Life Science Ltd.-60 KLD



Krishna Textile Ltd.- 100 KLD



ISPL- 150 KLD



Royal Classik Mills Ltd.-250 KLD



Himmat Singka Linens-500 KLD



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