Salient feature of the

System Offered by “CENTPRO”

- Selection of orrect process scheme based on the type of effluent
- Every ZLD system is a unique designed and custom made to suit the effluent type
- Lower capital and operating osts
- Highly energy efficient
- Useable evaporati e condensate generaation from effluent
- Efffecte use of combinanation oalling film & Forced circulation in multiple ffect evaporator with Thermovapour recompressor (TVR), Feed preheating and Condensate flashing system to achieve highest steam economy.
- Removal of solvents from high COD stream using stripper column
- Dry powder / baggable solids are produced in uniquely designed dryer / ATFD plant
- Proper implementation of ML ecycle system + Centrifuge for salt recovery
- Proper designed thus less cleaning frequency & Plant Stoppages
- Available in both fully automated and manual operation mode In house tate of art manufacturing facility and quality control. All equipments are manufactured as per international odes and quality standards to meet specific needs

CentPro™
Integrating Technologies; Improving Life.®

Centpro Engineering Private Limited

ZERO LIQUID DISCHARGE SOLUTION

Save **Water**,
Save **Environment**...

CentPro™
Integrating Technologies; Improving Life.®

Company Video QR Code

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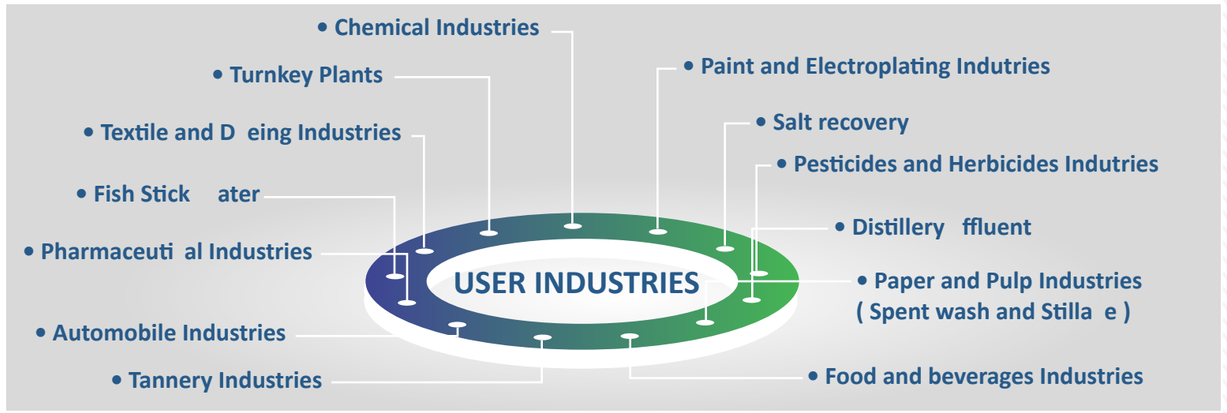
Zero Liquid Discharge

(ZLD) systems why needed?

Reduce, Reuse, Recycle

"ZLD" can produce useable stream of water from industrial effluent / waste water suitable for reuse in plant for various applications and discharging concentrate stream to produce baggable solids / powder / salts which is then sent for disposal / incineration.



General Treatment Scheme For Zero Liquid Discharge Systems

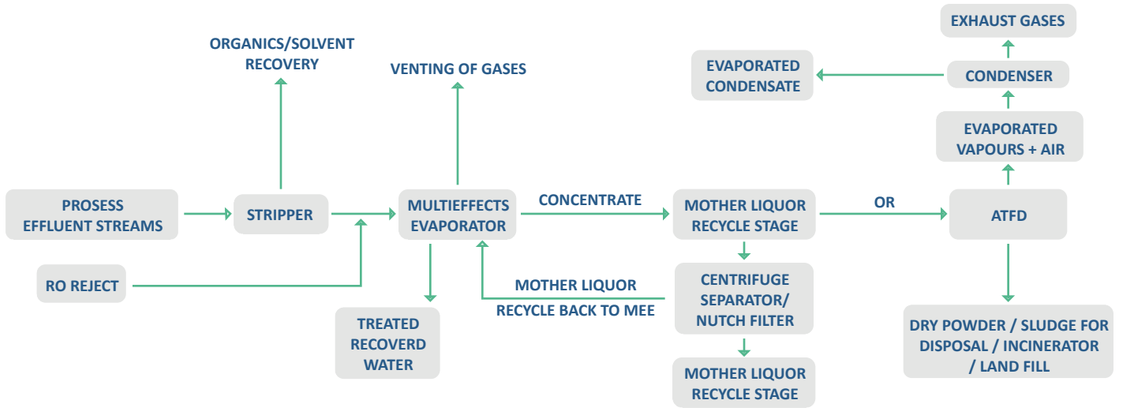
• Zero Liquid Discharge is achieved by initially teaatingffluent in series of water treatment processes like primary, secondary & tertiary teatment OR as per effluent characteristics it is diectly treated in thermal methods.
• In tertiary teatment RO is most ccommonly used method. Aer RO the reject stream still ontains large amount of water which in thermal treatment method is converted into vapour followed by condensor to recover water and thereby only discharging solid.
• Thus whatever water present in the effluent is recovered as useful water and solids present are discharged in the form of baggable solids / powder / salt which is sent for disposal. This meets the requirement of "ZERO LIQUID DISCHARGE" system.

We Mind Zero Tolerance for Water Polluti n

• Everyone needs water and there is always increased demand of water due to increased industrial development and urbanization.
• To comply with statutory laws of the environment, for reduction of inceased water demand through proper recycle, reuse of treated effluent / waste water.
• Ultim te aim is to make healthy environment by proper water and environment management.

Salient feature of the

The Plants Offered By Centpro For " ZLD "



High Steam Economy

We offer a system comprising of Thermovapour re-compressor (TVR), Feed pre-heaters, Condensate flashing to reduce the steam cconsumption & thus achieving higher steam economy.

Best Performance

Properly selected & designed scheme, adequate heat transfer area at best operating emperatures ensures the plant performance for longer time and reduces CIP frequency & plant stoppages.

Turnkey Plant Package

Easy & quick CIP facility for the plant, Fully automated and manual operation mode as per requirement.

Complete Turnkey Plant Package

- Comprising of Calendrias
- Pre-heaters
- Vapor-liquid separators
- TVR
- Pumps
- Vacuum system
- Hardware
- Piping
- Cabling
- Instrumentation & Control
- Installation

MULTIPLE EFFECT EVAPORATORS & CRYSTALLIZER

Customised Design

We offer all sizes and all type of evaporators namely Falling film, Forced circulaation, Sapped surface, Evaporator Crystallizer in efffecte combinanation with Multiple ffect evaporaratioystystem. The optimum number of effects in combinaation withalling film and forced circulation o ered by us ensures least operating ost at the balance of capital cost.

Commissioning and Good afer sales services are slient features of the system offered by us.

Agitated Thin Film Dryer (ATFD)

Widely used in ZLD application o produce dry powder / baggable solids from the concentrated effluent stream in a single stage.

Complete package with stripper column, Reboiler, Main and Vent condenser, Pumps, Hardware, Instrumentation & Control is offered by us to meet the specific needs.

Effluent Stripper

Normally utilized aer evaporator where evaporator concentrated is fed to the ATFD where in water is recovered in the from of evaporati e condensate and discharging dry powder / bag gable solids.

Especially used for removal of law boiler solvents from high COD effluent stream.

Incinerator

This is the last stage operati n in which the solids discarded from effluent are burned in all respect.