



VST MAARKETING

PURIFYING WATER

INDUSTRIAL RO BROCHURE



About us

VST Waterr Purifying Experts Private Limited is part of VST Maarketing Group . VST Maarketing was established in year 2003 with its Head office at Rajapalayam, Tamil Nadu to market and service Industrial and Domestic water purification systems. With our commitment to provide seamless service to all our customers we now have > 9000 strong and happy customer base. We operate out of 7 branches across Tamil Nadu and Karnataka.

VST Waterr Purifying Experts is a special arm to supply, erect, operate and service Industrial RO plants, Sewage Treatment Plants and Effluent Treatment Plants. This new division operates with a vision " To be a trusted and comprehensive solution provider to Commercial and Industrial houses in recycling and reuse of waste water at economical cost and save environment with technical expertise " .

We have highly qualified, trained and experienced technical team who would ensure that each of our plant is made from genuine grade of material to ensure high quality end product. With right supervision and updated technical knowhow we have installed highly sophisticated water purifying plants and equipment that are easy to operate and give excellent performance.

With our firm commitment to bring delight to our customers we have earned continued business association with leading companies, commercial institutions and offices.



Demineralisation

It eliminates impurities from water. Our demineralisation system removes ions such as cations of sodium, calcium, magnesium and potassium, and anions such as chloride, nitrate and sulphate.



- Variety of cost-effective models
- Low maintenance, easy to install
- Simple distribution/collection systems
- Rust free, less power consumption

UV & Ultrafiltration

Enjoy energy saving, low investment on account of water treatment. Our UV and UF systems offer a safe, easy-to-maintain method to remove harmful micro-organisms.

- Economical model
- Domestic & industrial purposes
- No use of chemicals



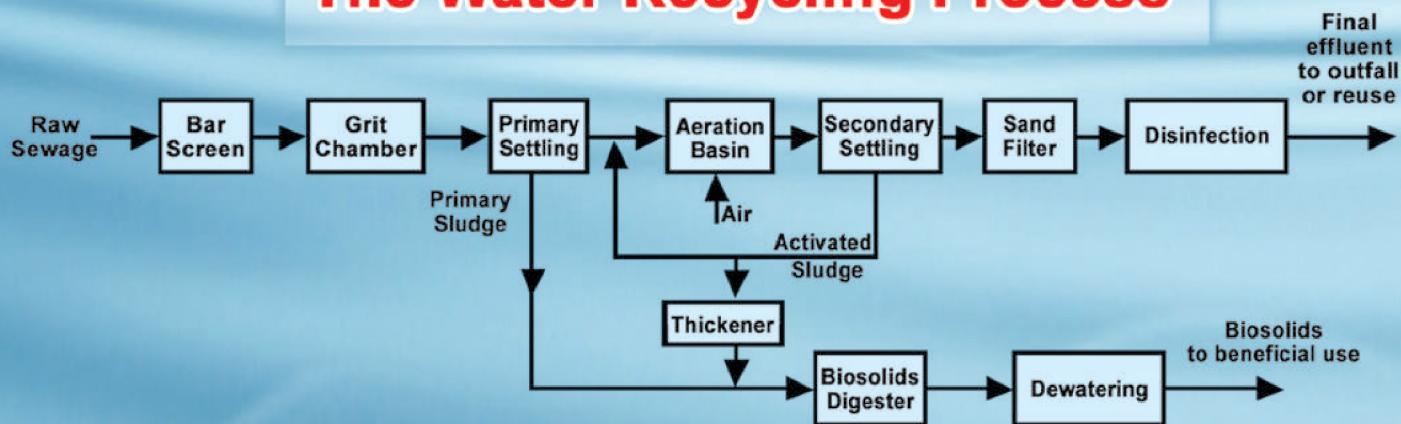
Sewage / Waste water Treatment

Sewage is generated by residential, institutional, commercial and industrial establishments. It includes household waste liquid from toilets, baths, showers, kitchens and liquid waste from industry and commercial establishments draining into sewers. The separation and draining of waste into greywater and blackwater is becoming more common in the developed world, with treated greywater being permitted to be used for watering plants or recycled for flushing toilets.

Sewage treatment is the process of removing contaminants from wastewater from household and Industrial establishments. It includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safer treated wastewater . A by - product of sewage treatment is usually a semi - solid waste or slurry, called sewage sludge, that has to undergo further treatment before being suitable for disposal or land application.



The Water Recycling Process



Effluent Treatment Plant Design



Effluent treatment plant is a process to convert wastewater - which is water no longer needed or suitable for its most recent use - into an **effluent** that can be either returned to the **water** cycle with minimal environmental issues or reused. See industrial wastewater **treatment**. Electrolytic Tin Plate, a tinning process.

Industrial Effluent Treatment Plant

VST is specialist in effluent treatment plant. Within a short span of time we have developed a reputation providing a professional, technical and cost effective service. VST works with a wide range of organizations and have a proven record in developing novel innovative solutions.



Features

- Design & supply of effluent treatment plants and associated equipment
- Effluent treatment advice and solutions
- Pilot plant trials

Applications

- Design engineering, supply and erection and commissioning of new ETPs Detailed Engineering of existing treatment
- Optimization of existing treatment chemistry/plant
- Training for site personnel for smooth operation of ETPs
- Service visits both technical and engineering/maintenance
- Effluent treatment feasibility studies
- Cost saving by using effective & modern methods of effluent treatment

Mechanical Vapour Re-Compressor Evaporator (MVRE)



Overview

Mechanical Vapour Recompression-(MVRE) is the most efficient Evaporation Technique driven by electrical energy thus reduces operating cost of steam and cooling water required in the process.

- Low Operating Cost System.
- No Cooling Water Required.
- No External Heat Source Required.
- Low Specific Energy Consumption.



Evaporation Technology with Mechanical Vapour Recompression



Maximum Water Recovery from Waste Stream

MVR Evaporators

Various evaporation techniques are used to concentrate fluids or to achieve Zero Liquid Discharge (ZLD) in wide-ranging industries including dairy, food, pharmaceutical, and chemical, textile, paper etc. Evaporating water from solution is an energy-intensive process. It is often one of the main contributors to a plant's operating costs

Over the past 10-15 years, Mechanical vapour recompression (MVRE) has become the preferred system in many industries, because of its economy and simplicity of operation. In most instances, the need for steam to provide heat for the evaporation and cooling water for condensing the overhead vapours is virtually eliminated; by installing MVRE. A wide range of turndown is possible in MVRE.

Mechanical Vapour Re-compressor is a system in which the Centrifugal Turbo Fan/Roots Blower is used to recompress the vapours generated by Evaporator at higher pressure using Electrical power. In MVR these same vapours are used again in evaporator as a heating medium. This eliminates the use of fresh steam.

The system operates at a partial vacuum, reducing the boiling temperature and most of the process heat is recovered and recycled within the preheated and evaporator unit. Overall specific energy requirements are dramatically reduced in comparison to conventional distillation/Evaporation systems

MVR becomes a CHEAPER option as compared to conventional multiple effect evaporators

Evaporator with ATFD



In chemical, dye industries effluent generated having high TDS ranging from 5-20%. In this type of effluent various organic and inorganic materials is present in the effluent. [Zero Liquid Discharge System \(ZLD\)](#) operation with evaporator and centrifuge will be very difficult for operation. In case to recover the 98% of the water present in Effluent, evaporator with [Agitated Thin Film Dryer \(ATFD\)](#) will be trouble-free solution.





Water Softner

Do you have challenging water conditions? Our water softeners remove calcium and magnesium, and convert hard water into soft, clean water. Ideal for homes and offices.

- Very easy to install and operate
- Equipped with a unique valve
- No need for technical support
- Fits to all industrial and household appliances



Industrial RO SS Plant



250 LPH RO



500 LPH RO



1000 LPH RO



2000 LPH RO



3000 LPH RO
and above



Reverse Osmosis

RO system removes unwanted particles, harmful micro-organisms and reduces TDS. Install our RO systems for industrial processes and bulk production of drinkable water.

- Advanced UV filtration system
- Operating voltage: 100-300 volts
- Fully automatic operation
- Free installation and support



VST MAARKETING

PURIFYING WATER

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Our Branches

K.N.V.Complex Main Road,
AMBASAMUTHIRAM - 627 425

T.D.T.A. Shoping Complex,
Railway feeder Road,
SANKARANKOVIL - 627756.

44A, Railway Feeder Road,
TENKASI - 627 811

Plot No. 24 & 25, Flat No. JG-2, Block Ground Floor,
Trinity Garden, Guindy Engineering Layout,
Mettukuppam, Thoraipakkam,
CHENNAI - 600 097