



# Vpure Water Solutions - WTP



**VPURE**  
WATER SOLUTIONS

# What We Do

At Vpure, we offer our clients lean and rapid solutions towards their waste water management system.

Our full stack design and engineering teams work as service providers in order to consistently develop new plants, expand and upgrade current waste water management systems throughout the world.

With CETP, WWTP and STP as our areas of expertise, we offer state-of-the-art machinery and provide our clients with cutting edge technological solutions to win the fight against pollution.

## Our strength



**Strong team of Professionals**



**Experts from diversified field**



**In house technical-commercial resources**



**Tie up with financial institutions**

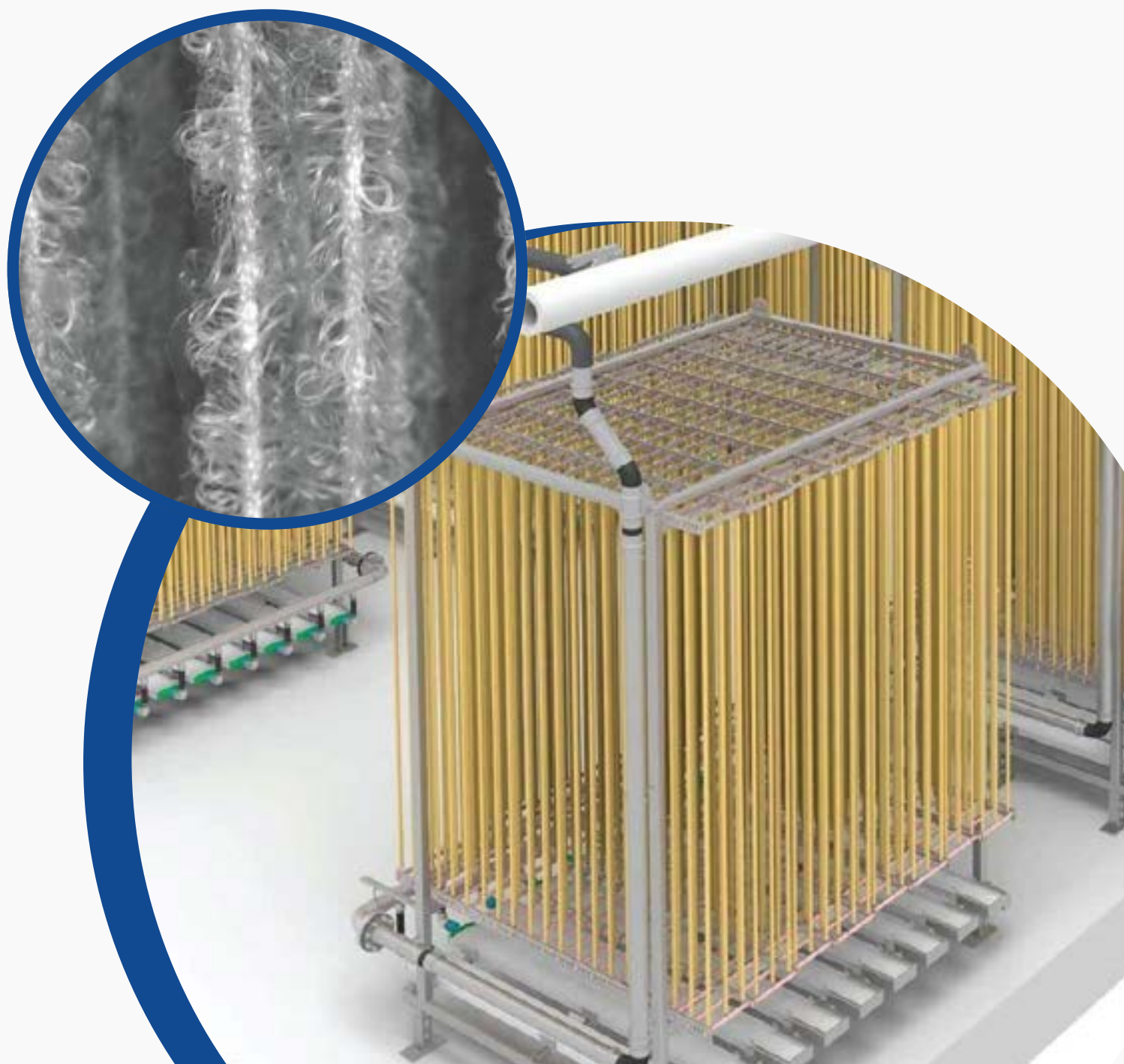


**Close ties with Government and Public-Private organizations**

# Our Technologies

## Biological treatment aeration - IFAS

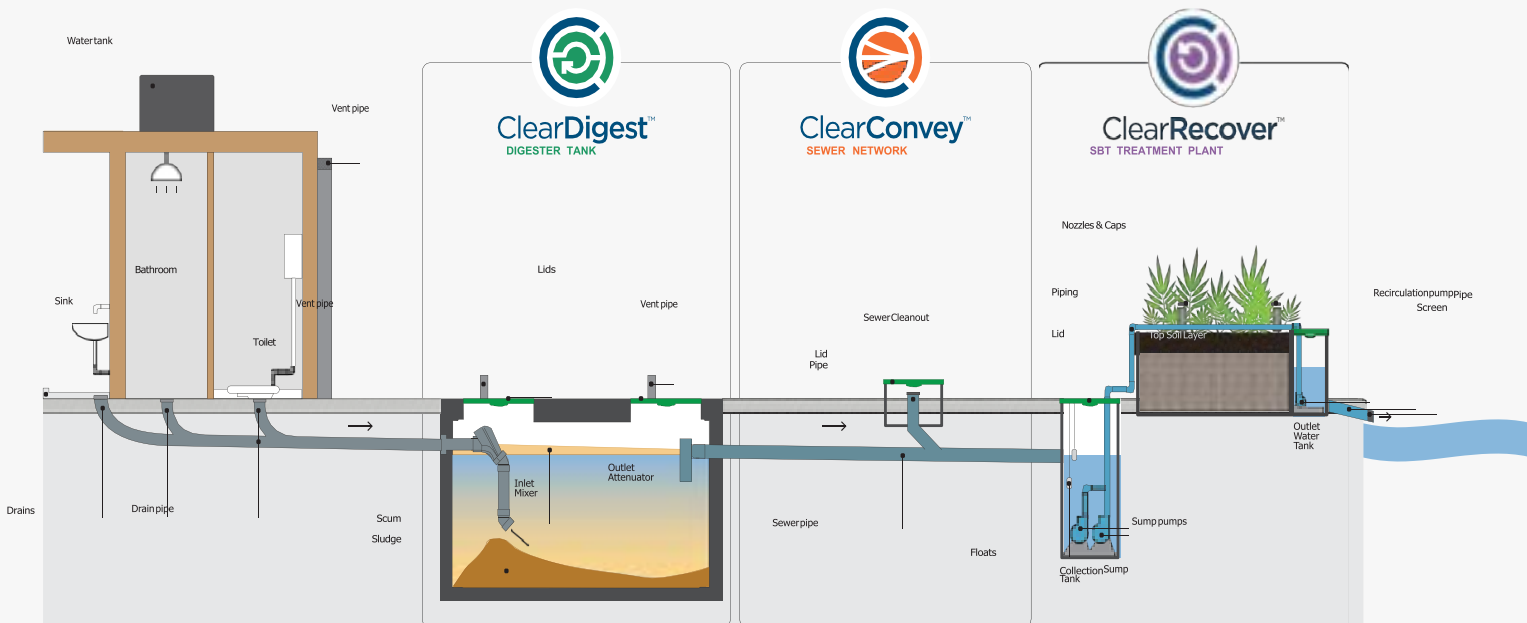
A fixed film media 'Cleartec Biocurlz' from Jager Umwelt Technik is the leading product which we are using for plant upgrades. For both Capacity enhancement and result augmentation. The Technology is also very beneficial where there are space restraints to set up new plants. It is a low maintenance cost media with benefits like lower sludge volumes and energy saving by the use of diffused aeration.



# Our Technologies

## SBT

Vpure combines the full suite of Vpure Water Systems sanitation products to deliver a new, better approach to sanitation. The key to enabling the efficiencies of Vpure is removal of sewage solids through distributed primary and partial secondary treatment using ClearDigest smart digesters. Liquid effluent is then transported in the ClearConvey small-bore-sewer network to the ClearRecover optimized treatment package for final treatment and water recovery. Vpure is more efficient, less expensive and longer lasting than conventional systems. It also needs far less water to operate—which means it works in water-scarce regions where traditional sewers don't.



# Our Technologies

## Tertiary treatment of wastewater

Secondary treatment removes 85 to 90% of BOD, TSS, and the small portion of nitrogen, phosphorus, and heavy metals from wastewater. Tertiary treatment of wastewater is the third stage of the wastewater treatment and is also known as an advanced treatment. Tertiary treatment removes the load of nitrogen and phosphorus present in the water.

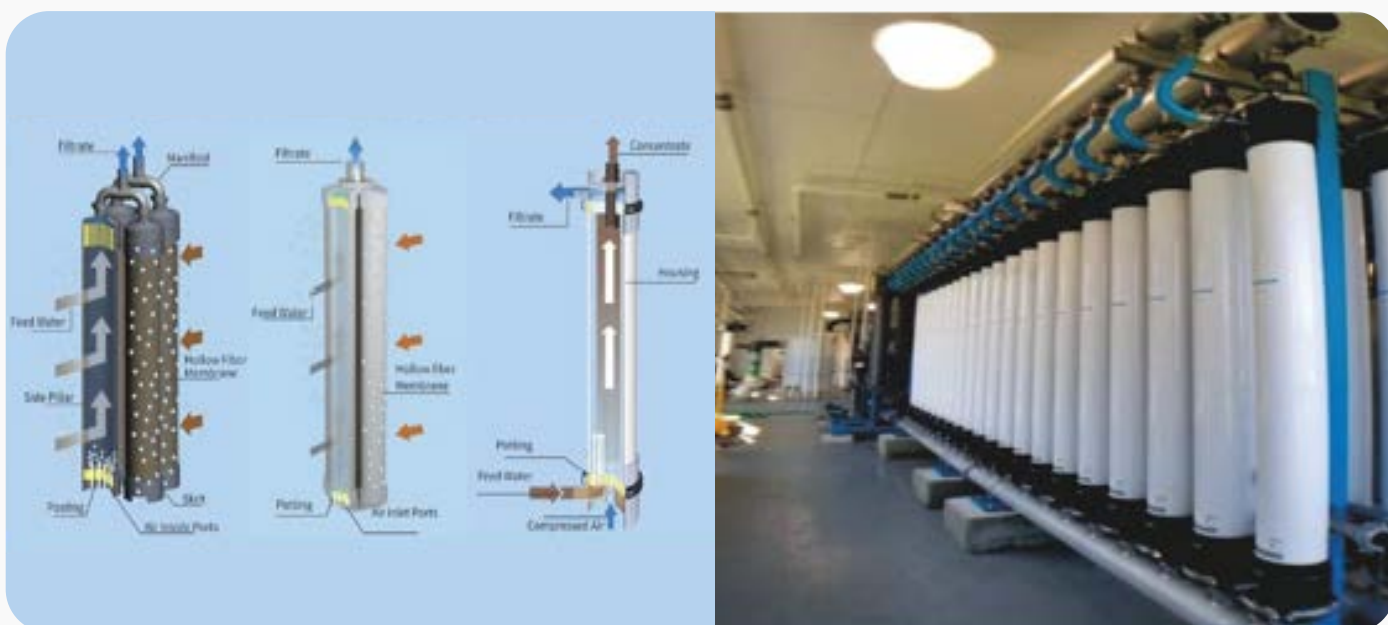
It includes processes like filtration, ion exchange, activated carbon adsorption, electrodialysis, nitrification, and denitrification. Treatment options in tertiary treatment depend upon the characteristics of effluent after secondary treatment and what kind of water is needed at the end of the treatment. For example, if we need potable water then filtration and disinfection are to be done on the wastewater.

### Filtration Process

Filtration process removes the particulate matter by passing water through the porous media. The filtration process consists of different types of media which are usually made up of sand, gravel, and charcoal. There are two types of sand filtration, slow sand filtration, and rapid sand filtration.

### Membrane Process

Membrane technology is used to treat a variety of wastes including sewage, organic and inorganic matter and water-soluble oil wastes. The membrane processes are classified on the basis of driving force and separation mechanism such as Multi Filtration (MF), Ultrafiltration (UF), Nano filtration (NF), Reverse Osmosis (RO), and Forward Osmosis (FO).





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