

# HECS<sup>®</sup>

Hubert Enviro Care Systems Limited



## HECS<sup>®</sup> PACKAGED WASTE WATER TREATMENT SOLUTIONS

- ✓ HECS PACKAGED SEWAGE TREATMENT PLANTS  
ULTIMA+ SERIES | AMAZE
- ✓ HECS PACKAGED EFFLUENT TREATMENT PLANTS  
MEDICLEAR | ECOWASH | ECOLAUNDER
- ✓ FRP STORAGE TANKS





## ABOUT US

HECS (Hubert Enviro Care Systems Ltd) is a dynamic company at the forefront of the wastewater management industry, known for its innovative and efficient solutions. With a rich history spanning over two and a half decades, HECS has established itself as a trusted name, delivering high-quality, environmentally-friendly treatment systems worldwide. The company's dedication to sustainability, customer satisfaction, and technological advancement has set it apart as a leader in providing scalable and cost-effective solutions for diverse sewage treatment needs.



Year of Inception: 1997  
Revenue: 2.5 Billion INR\*  
Employees: 2500+  
Clients: 5000+



## MANUFACTURING FACILITY

Spread over a 2.5 Acres at Sriperumbudur (Chennai), The HECS Manufacturing Facility is a cornerstone of the company's operations. It is dedicated to manufacturing HECS Packaged Sewage and Effluent Treatment Plants with a production capacity of over 500 units / year. This facility is renowned for its precision and quality, utilizing Fiberglass Reinforced Plastic (FRP) technology to construct robust and efficient treatment systems. Its state-of-the-art infrastructure and skilled workforce enable the production of advanced sewage and effluent treatment solutions that meet both national and international standards. The unit is equipped with the latest equipment for manufacturing process.

A key aspect of the facility's operation is its capacity to support significant export activities. With a strong emphasis on global standards and compliance, HECS ensures that its products are not only suitable for local markets but are also competitive in the international arena.

**Factory:** Vallam-Vadagal, Sipcot Industrial Park, Sriperumbudur Taluk, Kanchipuram Dist, Chennai



# PACKAGED SEWAGE TREATMENT PLANTS



## HECS ULTIMA SERIES

Technology: Hybrid MBBR

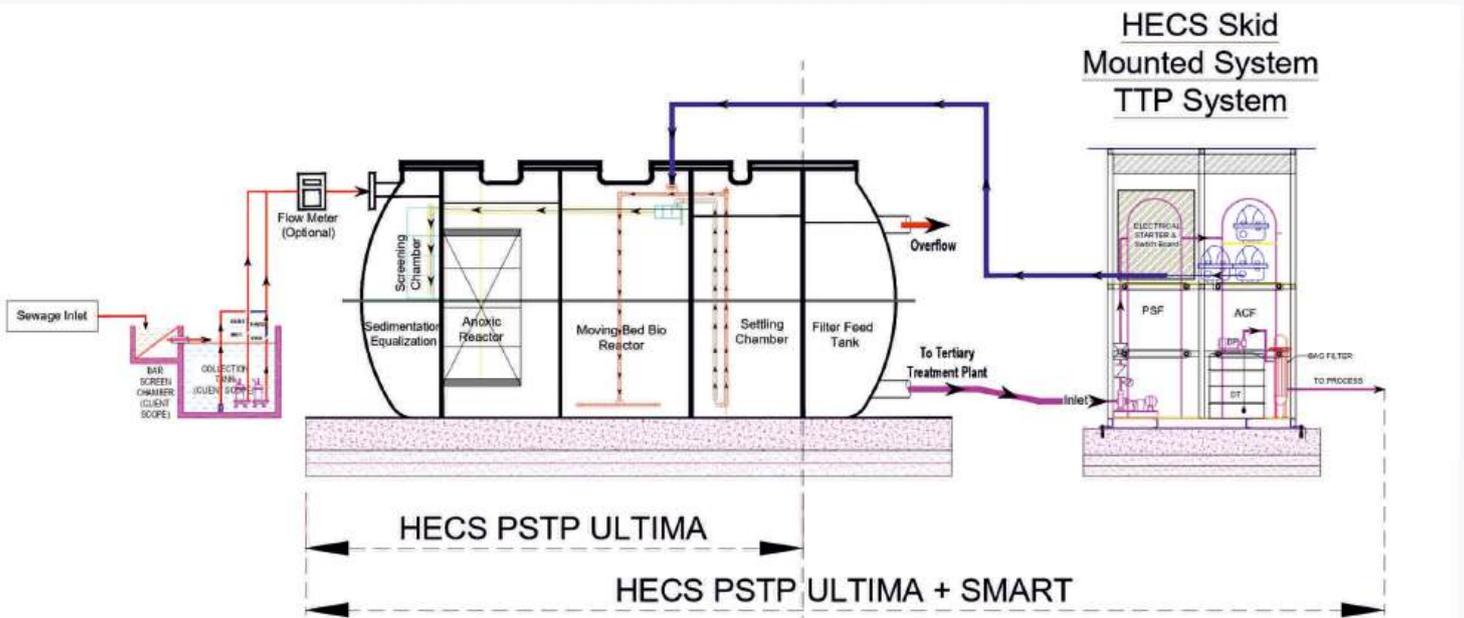
### Product Highlights

- ✔ **Advanced Technology:** The Ultima+ model incorporates the latest in sewage treatment technology, offering superior efficiency and performance. It uses an advanced biological process that ensures effective breakdown and removal of contaminants.
- ✔ **Ease of Operation:** HECS Ultima+ is designed for user-friendly operation, with automated controls and minimal maintenance requirements. This ease of use ensures consistent performance and reliability. Dedicated operator is not required.
- ✔ **Compact Design:** Designed with space efficiency in mind, the Ultima+ system is compact and modular, making it ideal for installations where space is limited. Its design facilitates easy integration into existing infrastructure with minimal disruption.
- ✔ **Environmental Compliance:** The treatment process of the Ultima+ ensures compliance with stringent environmental regulations, producing effluent that meets or exceeds quality standards for discharge or reuse, thus supporting water conservation efforts.
- ✔ **High-Quality Construction:** Constructed using high-grade materials, such as Fiberglass Reinforced Plastic (FRP), the Ultima+ plant is durable, corrosion-resistant, and designed to withstand harsh environmental conditions, ensuring a long service life.
- ✔ **After-sales Support:** HECS provides comprehensive after-sales service and support for the Ultima+ system, including installation, commissioning, and maintenance, ensuring optimal performance and longevity of the treatment plant.
- ✔ **Energy Efficiency:** The system is engineered to operate with low energy consumption, making it a cost-effective solution for sewage treatment. Its energy-efficient processes contribute to reduced operational costs and support environmental sustainability.
- ✔ **IoT & AI Powered:** HECS provides comprehensive IoT based monitoring system, the operational data of the unit can be monitored real time on HECS Smarthub App on Android and iOS. Apart from which AI Powered operational notifications and reports are generated.

# COMPARISON TABLE

	HECS Ultima	HECS Ultima+	HECS Ultima+ SMART
	HECS Hybrid MBBR PSTP without any TTP system	HECS Hybrid MBBR PSTP Standard TTP	HECS Hybrid MBBR PSTP + Smart TTP
Air Pumps	Yes	Yes	Yes
Filter Feed Pumps	NA	1w+1s	1w+1s
Control Panel	NA	Starter Panel+Switch Board	Non Compartmentalized Panel
Filters	NA	PSF+ACF	PSF+ACF
Dosing System	NA	Yes	Yes
Outdoor Skid	NA	Yes	Yes
Bag Filter	NA	Yes	Yes
IoT Panel+Sim Card Module	NA	No	Yes
Online / App Monitoring	NA	No	Yes
Flow Meter - Inlet	NA	Roto Meter	Electromagnetic Flow Meter
Flow Meter - Outlet	NA	Turbine Type	Electromagnetic Flow Meter
Bar Screen / Oil Trap	NA	Additional	Additional
Raw Sewage Pump	Additional	Additional	Additional
Available Capacities	2-500 KLD	3-500KLD	3-500KLD
Sludge Bag System	Additional	Additional	Additional

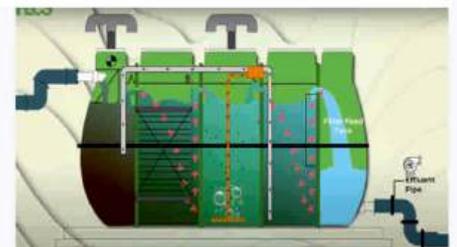
## PROCESS FLOW DRAWING



MAGNETIC DIAPHRAGM AIR BLOWERS



Explanatory video



## ABOVE GROUND



## BELOW GROUND



## SMART MODULE

**INTRODUCING TECH REVOLUTION IN WASTE WATER TREATMENT**

**HECS**<sup>®</sup>

SMART HUB

**INDUSTRY FIRST**

AI Alerts | Realtime Monitoring | Automated Reports  
Available in Android and iOS

## TREATMENT CAPABILITY

Parameter	Inlet	Ultima	Ultima +	AMAZE	MoEF CC Standard (Metro)
pH	6.0-8.0	6.0-8.0	6.0-8.0	5	6.5-9.0
BOD (mg/l)	300	<20	<10	<5	<20
COD (mg/l)	500	<100	<50	<30	-
TSS (mg/l)	200-300	<50	<20	<5	<50
TN	40-60	10	10	<5mg/L	-
F Coliform	10000	<100	<100	<100	<1000

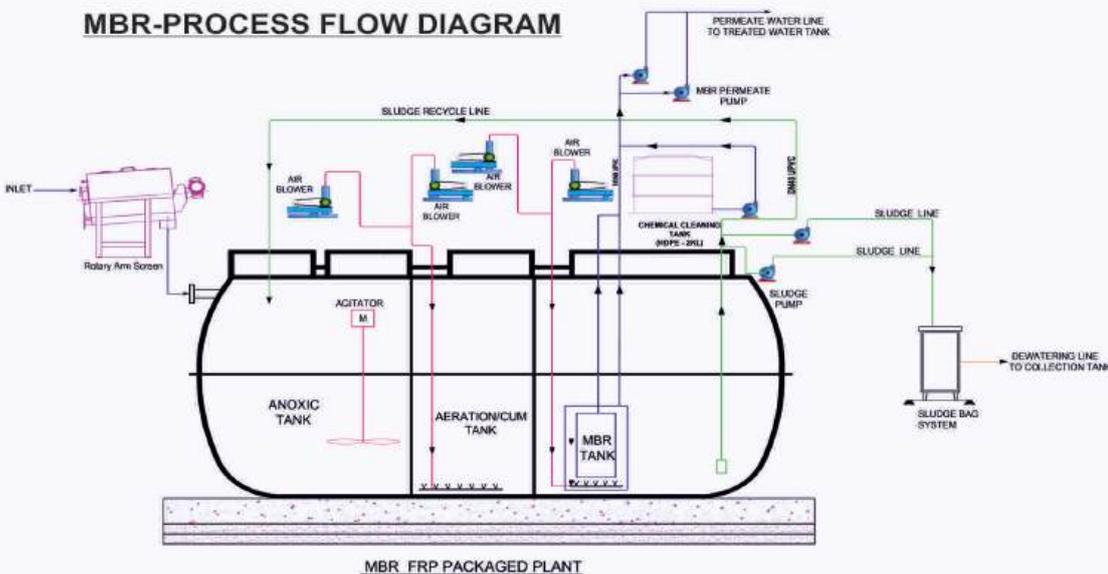
# HECS AMAZE PACKAGED STP

## Technology: Membrane Bio Reactor (MBR)

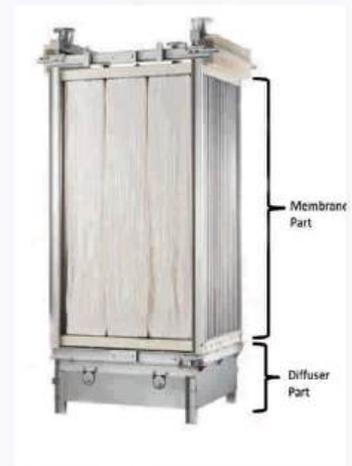
The HECS Amaze MBR Packaged Sewage Treatment Plant is an advanced waste water treatment system designed with compact and efficient technology. It is powered by Mitsubishi MBR membranes, known for their leading-edge performance in membrane bioreactor (MBR) technology. The system is designed to achieve high treatment standards, effectively handling sewage to produce treated water that meets regulatory requirements.

- ✔ **Plug and Play Design:** Minimal civil work is required for installation, making it convenient and cost-effective.
- ✔ **MBR Membranes:** Utilises high-quality membranes from global leader in MBR technology
- ✔ **Compact Design:** Requires the lowest space, making it suitable for areas with space constraints.
- ✔ **High Treatment Standards:** Achieves superior water quality without the need for ultrafiltration.
- ✔ **Energy Efficient:** Optimized design ensures savings on energy consumption.
- ✔ **Minimal Maintenance:** Designed for trouble - free operation with very low maintenance requirements. Operators are required for operation.
- ✔ **Odour Control:** Operates with minimal or no smell, enhancing the environment around the installation site.
- ✔ **Regulatory Compliance:** Meets the standards set by the Ministry of Environment, Forest, and Climate Change (MoEF & CC)
- ✔ **Treatment Performance:** Treated water is of high quality and maybe reused for flushing or for other applications based on clients requirement

## PROCESS FLOW DRAWING:



Explanatory video



## HECS STORAGE TANKS

### APPLICATIONS

- WATER AND WASTE WATER TREATMENT
- Raw Water Storage
- Chemical Storage
- Oil and Gas Industry
- Marine Applications

### FEATURES

- Corrosion Resistant
- Strong Despite Low Weight
- Highly Durable
- Low Maintenance
- Easy Installation
- Leak Proof - Factory Tested



## PACKAGED EFFLUENT TREATMENT PLANTS

HECS Packaged Effluent Treatment Plants (PETPs) offer a range of solutions tailored to various applications, leveraging their Fiber-Reinforced Plastic (FRP) Material of Construction (MOC) for durability and ease of installation. These systems are designed for convenience, with a plug-and-play approach that simplifies setup and operation. They come in standardized designs catering to different capacities, ranging from 1 kiloliter per day (KLD) to over 100 KLD, incorporating multiple technologies to suit the specific effluent treatment needs.

- ✔ **Material of Construction (MOC):** Made from Fiber-Reinforced Plastic (FRP), these PETPs are durable, corrosion-resistant, and suitable for various environmental conditions.
- ✔ **Plug and Play Design:** The systems are designed for easy installation and operation, allowing for quick setup and commissioning.
- ✔ **Customised Solutions:** For industries with unique requirements, HECS provides customized PETPs that are tailored according to the specific needs of the industry.
- ✔ **Standardised Designs:** PETPs are available in standardized designs that cater to a range of applications and capacities, from small-scale (1 KLD) to medium-scale operations (100+ KLD).
- ✔ **Multiple Technologies:** These plants employ various technologies to ensure efficient treatment of effluents, catering to different industrial requirements.
- ✔ **Application-Specific Solutions:** HECS offers PETPs designed for specific applications such as hospital effluents (MediClear), car wash and other wash applications (Wash Water), and commercial laundry (Laundry PETP).

## Applications

- ✔ **HECS MediClear Hospital PETP:** This system is designed to handle hospital effluents, managing the unique waste profiles of medical facilities, including biohazardous waste and pharmaceutical compounds.
- ✔ **HECS EcoLauder PETP:** Aimed at commercial laundries, this PETP addresses the treatment of wastewater generated from laundry operations, including the contaminants present in the same.
- ✔ **HECS EcoWash PETP:** Suitable for car washes and other wash-related applications, this PETP system effectively treats and recycles water used in washing processes, emphasizing water conservation and pollution control.
- ✔ **HECS Customised Solutions:** Tailor made solutions for wide range of industries, including automobile manufacturing, tyre production, glass manufacturing, and pharmaceuticals, to name a few.





**HECS 50KLD Ultima+ Smart PSTP at Lords 83 Wayanad**

HECS Packaged Sewage Treatment Plant at a Premier Resort at Wayanad

**CLIENT FEEDBACK**



HECS 1MLD Effluent Treatment Plant (ETP) at ONGC

**1 MLD PLANT PROCESS VIDEO**



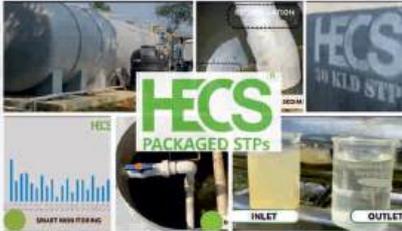
HECS PSTP and PETP Manufacturing Unit

**MANUFACTURING FACILITY**



Underground 75KLD Sewage Treatment Plant - HECS Ultima+

**70 KLD UNDERGROUND INSTALLATION**



HECS Packaged Sewage Treatment Plant - 30KLD Ultima+ Smart STP

**30 KLD ABOVE GROUND INSTALLATION**



HECS Smart Packaged Sewage Treatment Plant - 30KLD Ultima+

**CLIENT FEEDBACK**



# HECS<sup>®</sup>

## Hubert Enviro Care Systems Limited

### CORPORATE OFFICE

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### MANUFACTURING FACILITY

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**PAN-INDIA DEALER NETWORK FOR SALES AND SERVICE**

### Global Presence

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### Marketing / Sales Enquiry

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