

HECSTM

HUBERT ENVIRO CARE SYSTEMS LTD



Environmental Engineering & Management Company

- **Consultancy Services**
- **Laboratory Services (Enviro & Food)**
- **Turnkey Projects**
 - ◆ EPC Projects
 - ◆ Packaged Sewage Treatment Plants
- **Operations and Maintenance Services**
 - ◆ O&M Service
 - ◆ Spares and Consumables
 - ◆ Speciality Chemicals



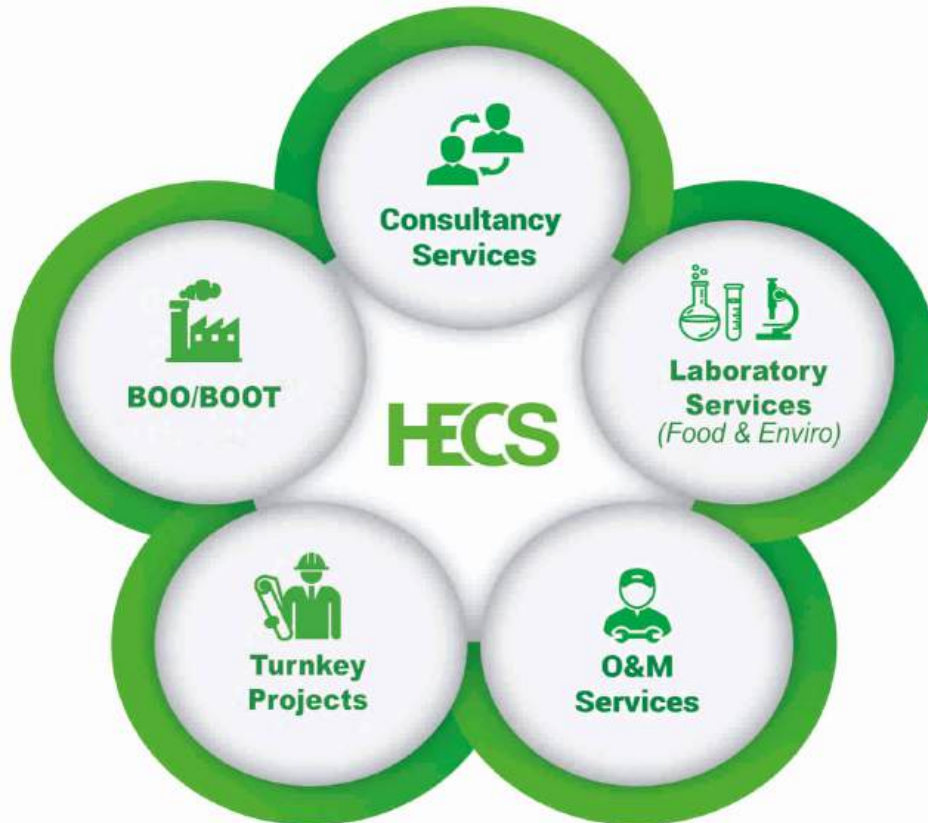
Company Profile

Hubert Enviro Care systems Ltd. is a leading Environmental Management Company and service provider serving as a catalyst for environmental protection in the industrial & service sectors

Enviro Care Systems was started in 1997 as a proprietor company. In the year 2004, Enviro Care Systems became a Private Limited Company and registered as Hubert Enviro Care Systems Pvt. Ltd.

Across two decades of operation we have developed into a matured corporate house to meet client's requirements to provide products and services of Global standards at the most competitive price within committed schedule of time.

We have full-fledged office & laboratory at Chennai, Mangalore, Trivandrum & Hyderabad.



Accreditations & Certifications

- Chennai Lab is recognized by MoEF & CC and accredited by NABL for pan India Operation under Environment Protection Act.
- (MoEF) Mangalore Lab is recognized by MoEF & CC for pan India Operation under Environment Protection Act
- (NABL) National Accreditation Board for testing and calibration Laboratories as per ISO 17025 for Chennai Laboratory.
- (NABL) National Accreditation Board for testing and calibration Laboratories as per ISO 17025 for Mangalore Laboratory.
- Chennai Laboratory is FSSAI notified.
- BIS Bureau of Indian Standards recognized for packaged drinking water IS 14543.
- (NABET) National Accreditation Board for Education & Training for Environmental Impact Assessment (EIA) studies.
- ISO 9001:2015 Certified.
- Environmental Management System complying ISO 14001:2015.
- Occupational Health & Safety Management System complying ISO 45001:2018.
- CRISIL -Rated SME 1A (Highest Performance Rating & Financial Strength) for Five years in a Row.



EXPERT

SUPPORT

KNOWLEDGE

CONSULTING

CONSULTANCY SERVICES

SERVICE

We offer personalized consultancy services in Environmental & Design Engineering.

ENVIRONMENTAL CONSULTANCY

- Environmental Clearance (EC) from MoEF & CC / SEIAA
- State PCB Consent and authorization Works
- Environmental Clearance (EC)
- Post EC
- Coastal Regulation Zone (CRZ)
- NBWL/Forest Clearance (FC)
- Feasibility / Treatability Studies
- Environment due diligence study

DESIGN ENGINEERING

- Design & Detailed Engineering of Water & Waste Water Treatment Plants.
- Contour & Cadastral Mapping
- Internal & External Drainage Collection & Disposal
- Internal & External Water Supply & Collection System
- Project Management Consultancy Services

OTHER CONSULTANCY AND APPROVALS

- Building plan approval - DTCP / CMDA
- Ground Water clearance / NOC
- Peso Approvals / NOC
- Site Appraisal
- Fire NOC/Licence
- Directorate of Industrial Safety & Health (DISH)
- Temporary & Permanent Power connection - TNEB
- CEIG approvals
- AAI NOC

Audits:

- Environmental audits
- Safety audits
- Waste audits
- Energy audits
- Periodical EW Statements

Environmental Studies / Projects

- Environmental Impact Assessment (EIA)
- Environmental Management plan (EMP)
- Social Impact Assessment (SIA)
- Ecology / Biodiversity management plan
- Marine EIA
- Traffic Impact Assessment Appraisal
- Beach Stability Study / Shore Morphology
- MSW Management studies
- Risk Assessment / HAZOP
- Carrying capacity
- Source apportionment study
- Hydro geological Study / Site Survey
- Disaster management plan (DMP)
- Solid waste & Hazardous Waste Management



Modeling:

- Air Quality Prediction Modeling
- Noise modeling
- Stack Emission Dispersion Modeling
- Ground water modeling
- Bathymetric Survey
- Topographic survey & GIS Survey mapping
- Oil Spill Modeling
- Risk Assessment Modeling
- Ground water contour mapping

GO GREEN
with us

LABORATORY SERVICES

HECS- MULTI- LABORATORY SERVICES

HECS has modern state of art multi-laboratory Infrastructure in 25000 sq. ft. with all latest sophisticated instruments and equipments.

GCMS/MSMS

LC/MS

NDR

ICPMS

FTIR

TCLP

AAS

HPLC

α & β
COUNTERS

GC

ENVIRONMENTAL LABORATORY

- Ambient Air Quality Monitoring
- Indoor air quality monitoring as per OHSAS, NIOSH, ACGIH.
- Work Zone Air Quality Monitoring
- Lux and Noise Monitoring
- Stack Monitoring
- Airport Noise Monitoring
- Fugitive emission Monitoring
- Performance assessment of stack
- Micro Meteorology
- Industrial hygiene/ Exposure Assessment survey
- VOC monitoring.

WATER & WASTE WATER TESTING:

- Complete analysis of water for chemical, Microbiological, Heavy metals, Pesticide Residual parameters.
- Drinking water as per ISO 10500.
- Packaged drinking water analysis as per IS 14543.
- DM water, Process water, Boilerwater, Cooling tower water and water for various purpose.
- Complete analysis of waste water sample ETP/STP for SPCB/CPCB/MoEF & CC compliance requirements.

OTHERS / MISCELLANEOUS:

- Used oil testing
- Waste oil testing
- Hazardous waste

SOIL / SLUDGE:

- Analysis of soil/sludge samples.

FOOD LABORATORY:

Food product analysis for

- FSSAI License / Approval
- Complete analysis as per FSSAI regulation.
- Pesticide Residue Analysis
- Trace Metal Analysis
- Nutritional Labeling
- Dairy & Dairy products
- Nuts & Nut products
- Spices & Condiments
- Cereals & Pulses
- Fruits & Vegetables
- Poultry & Egg products
- Beverages
- Raw and Finished Food Products
- Oils & Fats
- Seafood, Meat Products etc..



TURNKEY PROJECTS

PROJECTS PROFILE



- A Leader in the Environmental EPC market, HECS, has been providing state-of-art technology solutions to its clients for nearly 25 years.
- HECS-Projects division has a talented workforce for more than 50 people who can handle from Concept development to Commissioning.
- The company has a successful track record of completing more than 300 Water & Waste water projects.



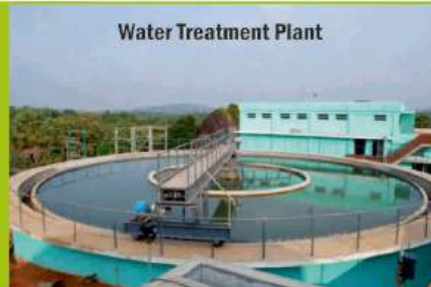
MEE ATFD for Pharma Effluents



Thermic Fluid based
MEE ATFD



RO Recycle Plant



Water Treatment Plant



Sewage Treatment Plant



Bio Gas
Waste to energy



Effluent Treatment Plant
ZLD


HECS provide EPC services for:

- Complete water management with zero liquid discharge
- Industrial waste water / Effluent Treatment Plants
- Sewage Treatment Plants
- Demineralization Plants
- Sea water Desalination Plants
- Raw Water Treatment Plants
- Condensate Polishing Plants
- Air Pollution Control Equipment Specialist
- Bio Methanization Plants
- Fractional Electro De-ionization (FEDI)




HECSTM Packaged FRP STP


Revolutionary Design

 This State of the art Packaged Sewage Treatment Plants are designed based on proven MBBR and MBR technologies respectively in an optimized compact design.

Reduced Capital Cost


 Capital cost is lower in comparison to conventional RCC Sewage Treatment Plants for Small and Mid Range Packaged Plants.

Low Maintenance Cost


 Only maintenance required is Monthly removal of plastics and desludging every six months.

Operators are not required for Small and Mid Range Packaged Plants.


Meets Regulatory Standards

 These Packaged Sewage Treatment Plants are designed to meet all parameters laid down by the latest Pollution Control Board Standards

No Smell & Low Sound

 This Packaged Plant does not emit any smell except during maintenance. Sound is lower than 50db, similar to that of a mobile phone vibration.

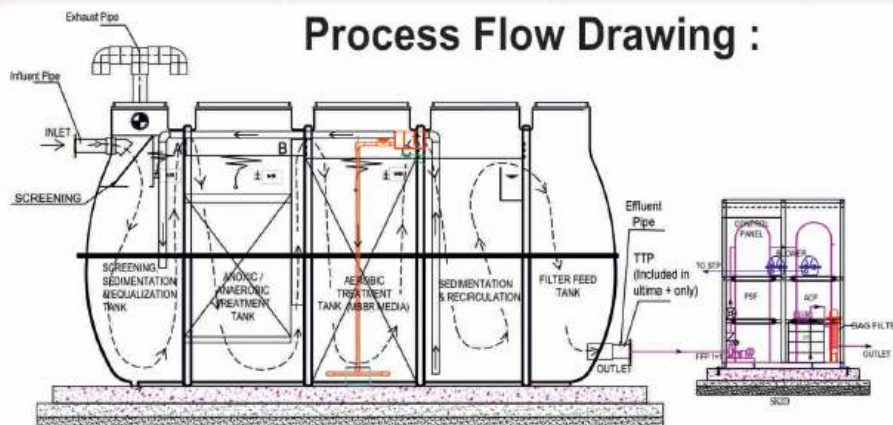
Leak Proof

 The FRP tanks used are manufactured using state of the art machinery and are individually pre-tested to make it leak proof.

Output Water Quality :

Parameter	INLET	ULTIMA	ULTIMA+	MOEF CC STANDARD (METRO)	MOEF & CC Standards For Non-Metro
pH	6.0-8.0	6.0-8.0	6.0-8.0	6.5-9.0	6.5-9.0
BOD (mg/l)	300	<20	<10	<20	<30
COD (mg/l)	400	<100	<50	-	-
TSS (mg/l)	240	<50	<20	<50	<100
F.Coliform (MPN/100ml)	<10000	<1000	<1000	<1000	<1000

Process Flow Drawing :





O & M Contracts

HECS offers Value Added Operation & Maintenance Services for all types of Industries. Our Expert team has good expertise in Handling Critical Effluents and has good knowledge in Handling the Operation and Maintenance contracts. HECS O&M Team of more than 1000 Employees spread in Pan India Operations Handling Major O&M Contracts in Refineries, Power Plants, SEZ, Tyre Industry, Fastener Units, High Rise buildings, Ports, Printing Industry, Automobile sector, Pharma, Engg Industries, High Purity Application Industries etc. Also regular visits of Senior Team of HECS Experts to O&M sites for imparting training to O&M Team in Technical, Team building activities etc adds value addition to HECS O&M Services. HECS Deals in following Types of O&M Contracts.

- Non Comprehensive O&M Contracts.
- Comprehensive O&M Contracts including supply of Chemicals & Spares.
- Cooling Tower O&M Contracts.
- Total Water Management.
- Chemical Consumption Optimization.
- Multiutility O&M Contracts.
- Power & Water Conservation.
- Annual Maintenance Contracts.
- O&M on Rs/m³ Basis.
- Water Audit & plant performance studying.
- Ensure Zero Liquid Discharge 100% PCB/MOEF compliance

We Offer

Operation and Maintenance Contract & Service Contract.

Retrofit & Revamp, Technology Enhancement of Water & Wastewater Treatment Plants.

Spares, Speciality Chemicals & Consumables





Revamp of Water & Waste Water Treatment Plants:

- ▶ Colloidal Silica removal by ultra filtration
- ▶ Incorporation of Electro Deionization plants for DM water polishing.
- ▶ Opex Reduction and capacity Enhancement



- ▶ Incorporation of ZLD evaporators to meet PCB standards
- ▶ Disc Tube for Removal of suspended matter to smaller ions, including colloids, bacteria, viruses and organic matter.
- ▶ Effluent reduction by reject recycling
- ▶ Incorporation of membrane technology in the existing conventional STP / (space saving) MBR
- ▶ Retrofitting / Revamping of Clarifiers and supply of clarifier parts.
- ▶ Incorporation of Iron Removal units (IRU)

RetroFit



Speciality Chemicals

Pre Treatment Chemicals

- Anionic and Cationic Poly electrolytes for Coagulation and flocculation
- Odour And Fouling Control Chemicals

Speciality Treatment Chemicals

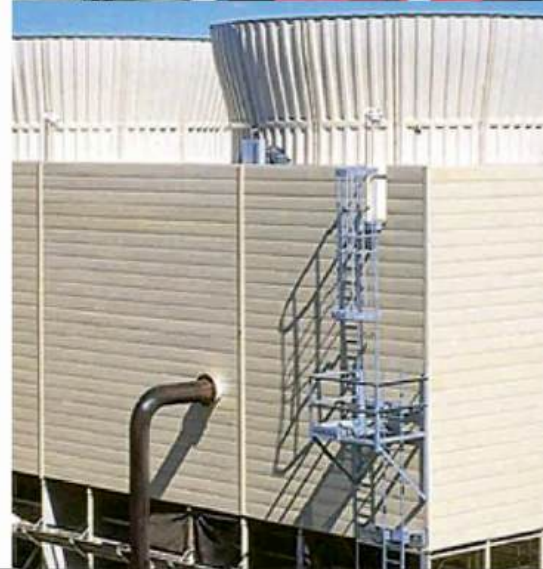
- Cooling Water Treatment Chemicals
- Boiler Water Treatment Chemicals
- Portable Water & Firewater Chemicals
- Pulp & Paper Chemicals
- Leather Chemicals
- Sugar Chemicals
- Fuel Additives

Membrane & ZLD Process Chemicals

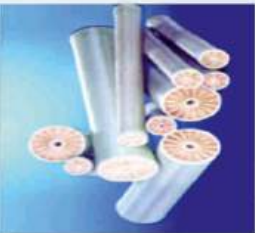
- RO AntiScalants
- Antioxidant for removal of chlorine
- RO & UF Cleaning Chemicals
- BIO-Dispersant and Bio Cleanser for RO Membranes
- Evaporator antiscalant
- Defoamer
- Decolourant
- Ph Booster

HECS[®] Speciality Chemicals Basket

HECS Description	HECS Product Name	Application
Boiler Water Chemicals	HECS BW - 105 HECS BW - 115 HECS BW - 125	PH Booster Oxygen Scavenger Scale Control
Cooling Water Chemicals	HECS CW - 155 HECS CW - 165 HECS CW - 755	Dispersant Chlorine Activator Corrosion Inhibitor
Defoamer	HECS DF - 100	Defoamer - ETP Defoamer - Evaporator Defoamer
ETP Chemicals	HECSPURE AP SP HECS PURE APE 500 HECSPURE APE -260 HECSPURE CC 300 HECSPURE - 200 HECSPURE CPE HC 150 HECSPURE CPE 115 HECSPURE DC200 HECS PURE DC200E HECSPURE PD400 HECSPURE PE160	Flocculant Organic Coagulant Cationic Foulant Decolourant - CRC Colour Removal Chemicals. Organic Coagulant Anionic Flocculant
RO Antiscalant	HECS RO -331 HECS RO E 125 HECS RO - 361 HECS Bio 501 HECS RO -113 HECS RO-223	RO Antiscalant - Low Silica RO Antiscalant - High Silica RO Antiscalant RO Antifoulant RO Cleaner - Acidic Ro Cleaner -Alkaline
Evaporator Antiscalant	HECS - EEI PLUS - HECS EEI T	MEE Multiple Effect Evaporator Antiscalant
BOD-COD Reduction	HECS COD R 1100 - HECS R COD 1200	BOD-COD Reduction chemicals.
Lime Dolomite Replacement	HECS S 1100	Lime - Dolomite replacement Special product - TSS and NTU Reduction
Green Biocide	HECS BIO GB	Green Biocide



Spares & Consumables



Reverse Osmosis Membrane



Valves



Cartridge Element



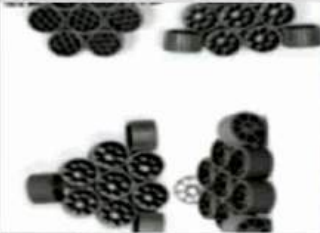
Pumps and Accessories



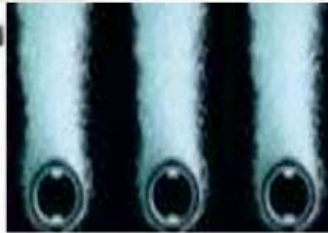
Motor & Accessories



Reverse Osmosis Pressure Tube



FAB Media



Air Diffuser Systems



Ejectors



Ion Exchange Vessels



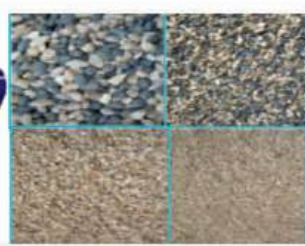
Agitator Assembly

Spares:

- **RO /UF spares**
Reverse Osmosis Membrane
Reverse osmosis pressure tubes
Brine seal & Interconnecting
- **Filter media and Resins /Iron Removal media**
Ion exchange resin, Filter media, Tube settler media, Fab media, Degasser Packing
- **Valves**
Valves, Solenoid valves, Auto multiport valve
- **Diffusers /Agitator**
Air diffuser system, Agitator Assembly
- **Cartridges /bag filter**
Cartridges elements
- **Pumps and accessories**
- **Mitsubishi membrane MBR membrane**
- **Dosing system**
Dosing pump, Chemical Dosing system



Centrifuge & Accessories



Filter Media



Degasser Packing



Dosing Pumps



Solenoid Valves



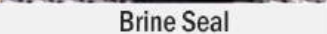
Chemical Dosing System



MS Tank



RO Assembly



Brine Seal

Equipments:

- **Lab Equipments**
Bench top /Pen type meter, Ph/ORP meter, Conductivity/TDS meter, dissolved oxygen meter, Turbidity meter
- **SDI Kit**
- **Online Monitoring instruments**
Ph/ORP analyzer, Conductivity/TDS analyzer, Dissolved oxygen analyzer, Turbidity analyzer, Silica Analyzer, Hardness Measurement



Online Monitoring Instruments



LAB Instruments



pH / ORS Analyzer



Dissolver Oxygen Meter



pH Meter

BLT BOOT BOOT Projects

HECS™

also deals in
Financing, Design,
Construction, Own
Operate & Maintain
ETP/WTP/STP/ZLD/
Desalination units.

BLT

BOOT
BOOT
Model

HECS undertakes build, lease and transfer model projects for packaged STP. HECS will supply, install the Package treatment Plant and the same will be leased to the client for monthly lease fee. The lease period can vary from one year to five years after which the plant will be handed over to a client at a minimum residual value. This is the suitable solution for the companies which prefer to reduce CAPEX investments.

It is a recognized model prevalent across, the international water sector. The funding of the projects, design, construction, Operation & Maintenance and repairs is taken care by the HECS for a prefixed concession period. After which in case of BOOT the plant is transferred to the client at residual cost. The concession period can vary from 10 yrs to 30 yrs. The client will be billed on Per m³ basis with a minimum guarantee.

A Partial list of our valuable clients:



... And many more



Corporate Office

HUBERT ENVIRO CARE SYSTEMS LTD.,

A-21, III Phase, Thiru Vi Ka Industrial Estate, Guindy, Chennai - 600 032.

☎ 91-44-3539 1255 ☎ 91-44-3539 1266 ✉ marketing@hecs.in

LABORATORY

Chennai

A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032. Tamilnadu, India.

☎ 91-44-3539 1255 ☎ 91-44-3539 1266

✉ labsales@hecs.in

Mangalore

C/45, Baikampady Industrial Estate,
Baikampady, Mangalore,
Karnataka - 575 011.

BRANCHES

Bangalore

33/1, 1st floor, Opp. Bharath Petrol Bunk
Sanjay Nagar, Bengaluru - 560 094.

Coimbatore

No. 7/50-6A-1, Maruthi Indl. Nagar,
Keeranatham Road, Keeranatham,
Coimbatore - 641 035.

Hyderabad

Plot No.65, Chandragiri Colony,
Beside RTA Office, Tirumalagiri,
Secunderabad - 500 015.

Cochin

270-A, Malaimuppathil House,
SMP Colony Road, Eroor South PO,
Emakulam - 682 306.

FOR ENQUIRIES

Laboratory & Consultancy Services

☎ 98843 91077, 98843 91099, 98844 01151 ✉ labsales@hecs.in

Turnkey Projects Services

☎ 91500 23694 ✉ projectsales@hecs.in

O&M Services

☎ 98840 01728 ✉ oandmsales@hecs.in

Spares, Chemicals & Consumables

☎ 93441 77040 ✉ sccsales@hecs.in

