





## Ecologic Systems (Pvt) Ltd

Ecologic Systems is a Design & Build Process Engineering contracting and consultancy company established in 1993 who provides engineering solutions for environmental protection and delivers projects engineered and managed by well experienced engineering staff.

We offer custom design solutions to all sectors of government, public and private enterprises in hospitality, healthcare, garment, rubber, packaging, printing, fertilizer & industrial chemicals, food & beverage, construction etc.,

Our services include design, fabrication, installation, testing, and commissioning & plant operations as well as obtaining statutory approvals for clients.

Ecologic systems in a CEA approved/ authorised Consultant for Environmental Engineering consultation and system implementation.

Ecologic Systems (Pvt) Ltd, is a fully owned subsidiary of United Tractor & Equipment Pvt Ltd.

## Sewage / Effluent Treatment & Sludge Management

- Conventional anaerobic & aerobic systems
- Sequencing batch reactors
- Moving bed bio reactors
- Rotating biological contactors
- Membrane bio reactors
- Filter presses

## Water Treatment Plants

- Seawater / brackish water Reverse Osmosis plants
- De-mineralization plants
- Water softeners
- Water Filtering plants

## Solid Waste Management

- Bio gas plants
- Incinerators
- Engineered land fills
- Compost plants

## Air Pollution Control, Noise Abatement & Ventilation

- Wet scrubbers
- Electrostatic precipitation systems
- Dust collectors
- Sound insulation / sound absorption
- Vibration isolation

## Operation & Maintenance of Plants

- Sewage & wastewater treatment plants
- Water treatment plants



Earl's Regency Hotel,  
Kandy



Palm Beach Island Resort,  
Maldives



Kandalama Hotel  
Dambulla



Base Hospital,  
Kuliyaipitiya



Marriot Hotel & Spa  
Weligama

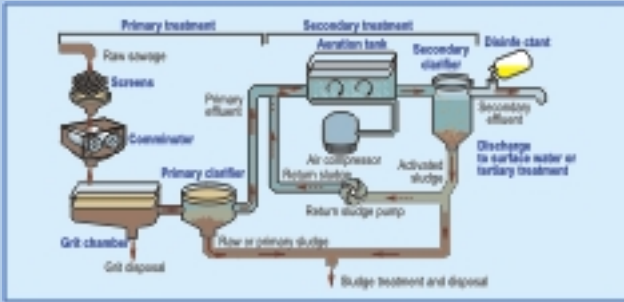
## Our services

- Sewage and wastewater treatment
- Water treatment (Specialized in BWRO & SWRO systems)
- Solid waste management
- Air pollution control and ventilation systems
- O & M services for STP's WTP's and other environmental pollution control systems
- Rehabilitation and upgrading of existing & treatment systems

## Advantages of our plants

- Custom design / Application specific systems
- Long service life
- Regulatory compliant
- User friendly - low & easy maintenance
- Advanced treatment options are available on request

# Technologies

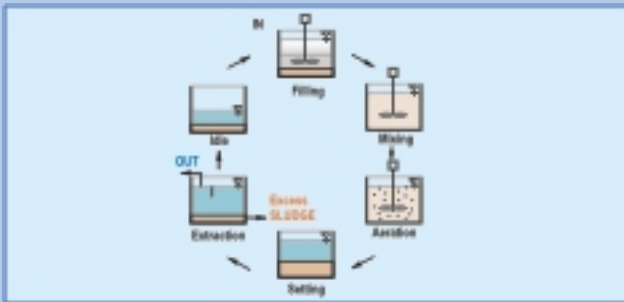
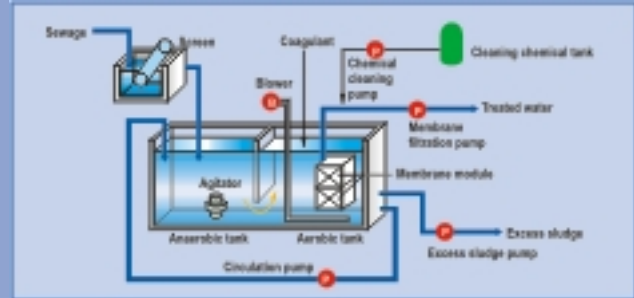


## Combined Anaerobic and Aerobic Treatment Systems

- We design & build the treatment plants locally.
- All equipment are sourced locally.
- Convenient & easy operations.
- Low maintenance cost.

## Membrane Bio Reactor (MBR)

- MBR is the latest technology in the wastewater treatment field.
- MBR produces high quality water when dealing with domestic wastewater.
- Treated effluent is safe to be discharged into water bodies.
- MBR's have smaller footprints & easy to retrofit and upgrade.

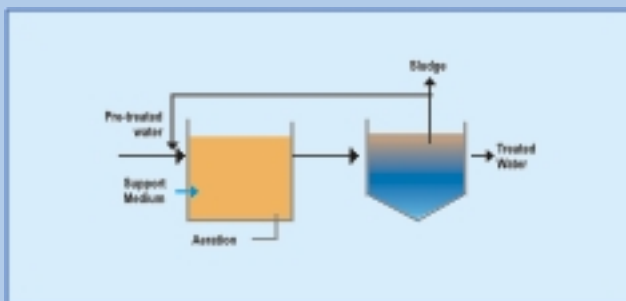
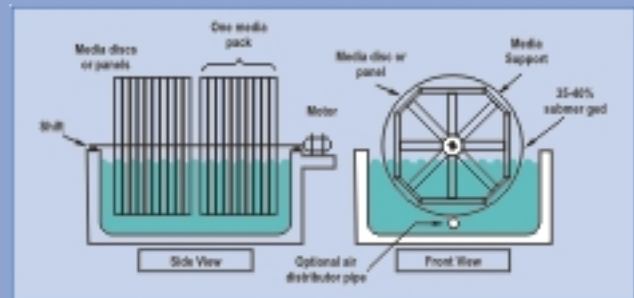


## Sequencing Batch Reactor (SBR)

- Aeration and sludge settlement both occur in the same tank.
- Space requirement is less, which significantly reduces civil construction costs.

## Rotating Biological Contactor (RBC)

- RBC guarantees low operating costs due to low power consumption.

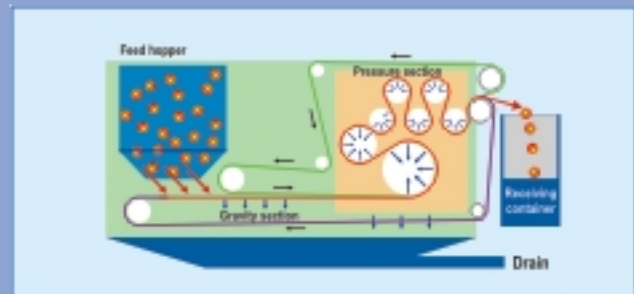


## Moving Bed Bio Reactor (MBBR)

- MBBR technology uses polyethylene biofilm media, which is kept in suspension in an aeration tank.
- This system uses less space than the conventional sewage treatment plants.

## Sludge Dewatering Plants (SDP)

- SDP is focused on reducing on sludge weight & volume.
- Reduces cost of disposal.
- Mitigates potential health risks.





## We offer

- Most economical unit cost of waste treated.
- High quality services, meeting established environmental standards.
- Minimum resource utilization & sound environmental practices in waste minimization & pollution prevention.
- Design solutions that minimize and mitigate adverse impacts of construction & development.
- Immediate response to customer requirements.
- Free training on health and safety.

### **Rectification of Plants**

We undertake complete inspection, evaluation, fault identification/trouble shooting, rehabilitation of existing treatment plants.

### **Operations & Maintenance**

We provide plant operation and maintenance services (O&M contracts) at attractive rates, to take off the burden of maintaining treatment plants anywhere in Sri Lanka. Depending on the customers' budget ranging from full maintenance to periodical inspection and advisory services.

### **24 hour breakdown services**

Plants supplied by us enjoy 24 hour breakdown service at no extra cost. This service can be extended to plants supplied by others at a competitive rate.

### **Warranty**

All our plants carry standard one year warranty. Warranty can be extended up to five years at an attractive rate.



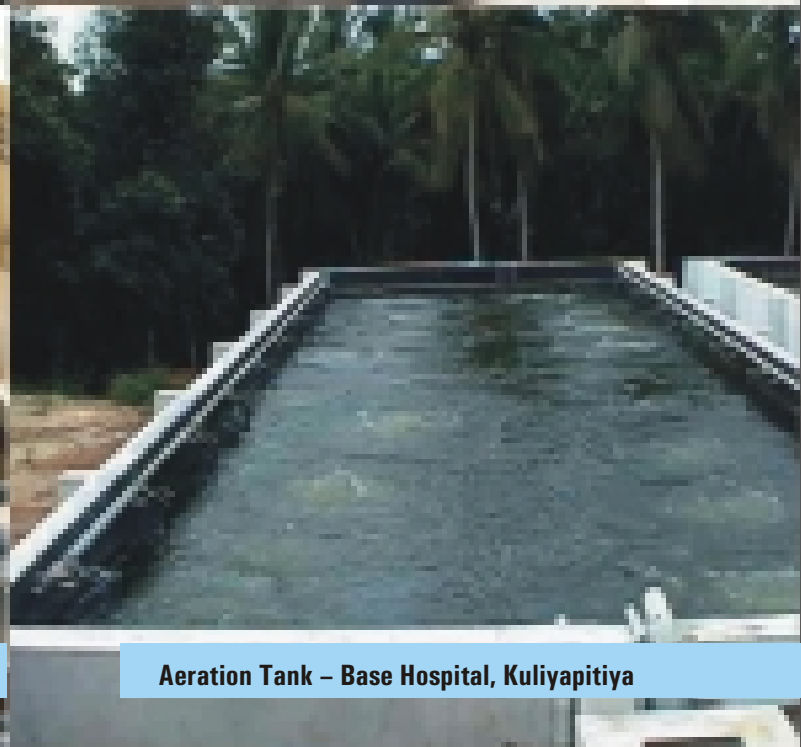
**Carbon Filter – BOI - EPZ, Horana**



**Sand Filter System – BOI - EPZ, Horana**



**Lamella Separators – BOI - EPZ, Horana**



**Aeration Tank – Base Hospital, Kuliypitiya**



**Sea Water Reverse Osmosis Plant, Delft Island - Sri Lanka**

# Projects

## Major Projects in Sri Lanka

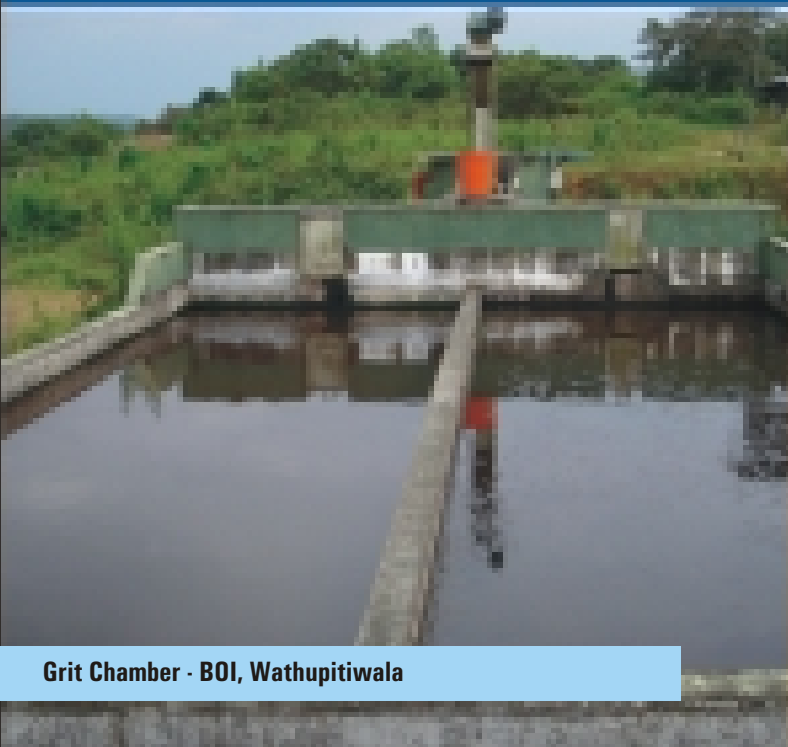
- STP for Marriot Hotel & Spa - Weligama 330 m<sup>3</sup>/day
- SWRO for NWS&DB, Delft Island, Jaffna 200 m<sup>3</sup>/day
- STP for Ranaviru Apparels - Alawwa 100 m<sup>3</sup>/day
- STP for MN Properties Pvt Ltd - Ragama 60 m<sup>3</sup>/day
- BWRO for Lakvijaya Power Station, Norochcholai 240 m<sup>3</sup>/day
- Pre-treatment plant - BOI - EPZ, Wattupitiwala 400 m<sup>3</sup>/day
- WWTP for BOI - EPZ, Horana 1000 m<sup>3</sup>/day
- STP for Air Force Base - Anuradhapura 350 m<sup>3</sup>/day
- WWTP for Sirimawo Bandaranayake Children's Hospital - Peradeniya 240 m<sup>3</sup>/day
- WWTP for Base Hospital - Kuliyaipitiya 300 m<sup>3</sup>/day
- STP for The Lodge - Habarana 210 m<sup>3</sup>/day
- STP for University of Kelaniya 200 m<sup>3</sup>/day
- STP for Earl's Regency Hotel - Kandy 95 m<sup>3</sup>/day
- STP for AIDA Hotel - Bentota 15 m<sup>3</sup>/day

## Major Overseas Projects

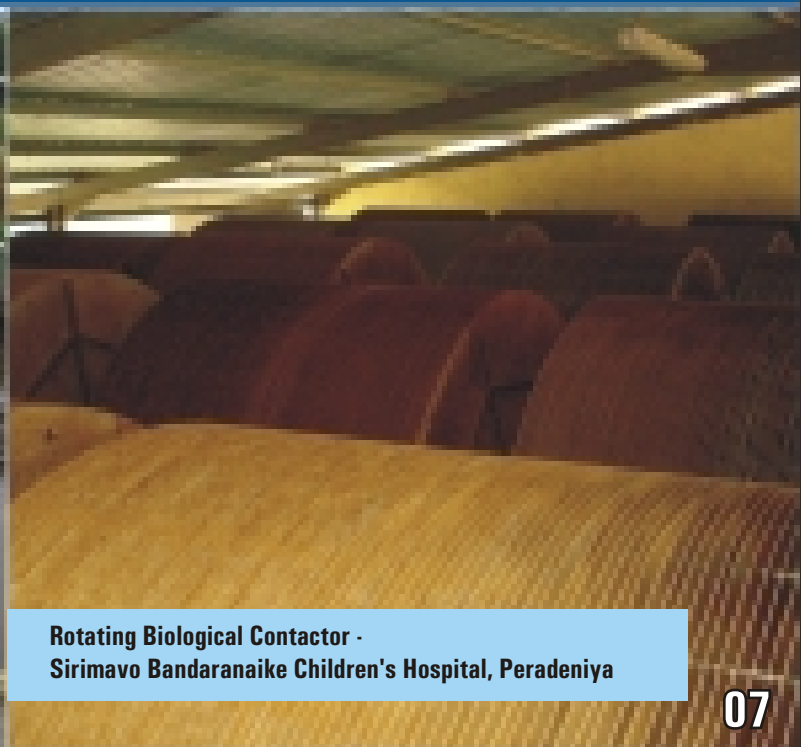
- STP for Lux North Male Resort – Olhahali 225 m<sup>3</sup>/day
- STP for Meedhupparu- Pearl Island Resorts 200m<sup>3</sup>/day
- STP for Kanifinolhu Resorts 200m<sup>3</sup>/day
- STP for Royal Island Resorts 250m<sup>3</sup>/day
- STP for Palm Beach Island Resorts 90m<sup>3</sup>/day
- STP for Reethi Beach Resorts 90m<sup>3</sup>/day

## Projects Under Execution


- SWRO for Kalpitiya Lagoon Resorts 150m<sup>3</sup>/day



Grit Chamber - BOI, Wathupitiwala



Rotating Biological Contactor -  
Sirimawo Bandaranaike Children's Hospital, Peradeniya

The image features a background photograph of a water treatment facility. In the foreground, there is a concrete walkway with a metal railing overlooking a large, circular, shallow basin filled with water. In the distance, other industrial structures and a crane are visible under a clear sky. The UTE Engineering logo is centered at the top of the page.

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## **Ecologic Systems (Pvt) Limited**

A Fully Owned Subsidiary of United Tractor & Equipment (Pvt) Ltd

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