

Completed Projects - 2023



Anasa Wellness Resort,
Bandarawela - 70 m³



Ocean Front
Condominiums Galle - 45 m³



Faculty of Technology,
University of
Colombo, Homagama - 70 m³



Mount Clifford Luxury
Apartments, Homagama - 60 m³



Faculty of Healthcare
Sciences, Eastern
University of Sri Lanka,
Batticaloa 200 m³



IT Hub, Malabe - 80 m³



University of
Jayawardhanapura
Faculty of Humanities - 150 m³



University of
Sabaragamuwa P2 - 50 m³



SLIIT Kandy - 300 m³



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Certified by:



Intelligent Waste Water Management Systems





Moving Bed Bio Reactor (MBBR)

ICC Smart Eco Solutions advanced “Prefabricated” Moving Bed Biofilm Reactor (MBBR), package sewage treatment plant offers state of the art technology for wastewater treatment with the smallest footprint. Our designs cater to population equivalents of 25 to 3,000 and is particularly suited for corporate buildings with little space, Hotels, holiday resorts, condominiums housing developments, hostels, golf courses and construction sites. The units could be installed in basements, car parks etc., especially in areas without a main sewer lines. These systems are used worldwide, not only in Sri Lanka. And monitored and certified by our technical-consultants AET of USA and Clear Fox of Germany, ICC Smart Eco MBBR system satisfies both current and anticipated standards issued by the CEA (Central Environmental Authority) of Sri Lanka.

Key Features

- ✓ Containerized – Every MBBR can be shipped or transported with ease.
- ✓ Ease of Installation – Each MBBR unit is a single unit, installation involves minimal civil works.
- ✓ Compact – Has the smallest footprint of any known and comparable system.
- ✓ Modular – Additional units can be installed as required if the usage increases.
- ✓ Minimal operational costs and Low maintenance – Can be operated by non-technical staff
- ✓ Environmentally Friendly Process – No added chemicals or cost, other than for sterilization.
- ✓ Certified – Our systems & processes have been approved for use by the Central Environmental Authority. (CEA)
- ✓ BOD Reduction and Full Nitrification – To less than 10 mg/l BOD5, with no additional Process Tanks
- ✓ Built in Sludge Digestion – Reduces sludge volume and saves complicated and additional tanks



Application: Municipal Industrial



Fixed Bed Biological Reactor (FBBR)

The ICC Fixed Bed Biological Reactor (FBBR) is a unique, high rate, biological wastewater treatment process. Fixed bed modules can be applied for standalone biological treatment of municipal wastewaters, or for high-rate biological treatment of pretreated industrial wastewaters. Modules can be used in series, or in parallel to handle flowrates of 10 – 5,000 m³/day. Fixed Bed Biological Reactor (FBBR) is a more robust process than typical activated sludge processes. It is able to handle much higher pollutant concentrations than MBR and MBBR processes. It also produces less sludge than conventional biological wastewater treatment process technologies. Due to the dense biomass on the fixed bed media designed by ICC Smart Eco FBBR units, the footprint of our fixed bed biological treatment units is much smaller compared to conventional systems.

Key Features

- ✓ The FBBR (Fixed Bed Biological Reactor) is recommended by leading German water associations for high-rate biological wastewater treatment
- ✓ Suitable for industrial and municipal wastewater
- ✓ Low CAPEX
- ✓ No chemicals required
- ✓ No odor produced
- ✓ Plug and play solutions
- ✓ Final effluent suitable for reuse
- ✓ Operation of the plant is possible with minimal training as operation is automatic



Application: Municipal Industrial

Get in touch
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