

BALANCING THE DECENTRALIZED WASTE WATER TREATMENT EQUATION

Effective recycling enabled St. Martha's Hospital
to save Rs. 2.5 lakh/month on water alone

With over 534 beds and state-of-the-art diagnostic facilities, St. Martha's Hospital is one of the leading hospitals in Bangalore bringing equitable and quality healthcare to thousands of patients.

Founded in

1886

Over

250000

out-patients treated annually

Nearly

21000+

in-patients receive care every year

How the story began

The hospital was facing several challenges that needed immediate attention.

- Stringent Biomedical PCB standards for waste water treatment
- Requirement of vast space for installing a sewage treatment plant
- High maintenance cost of conventional STP
- Low utilization of recycled water

The ask

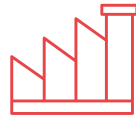
The client was looking for a way to conserve water which in turn would result in cost reduction. They wanted us to help them design and implement a waste water treatment solution that could prove a game-changer in the long run.



Low maintenance operations



Less space for installation of the plant



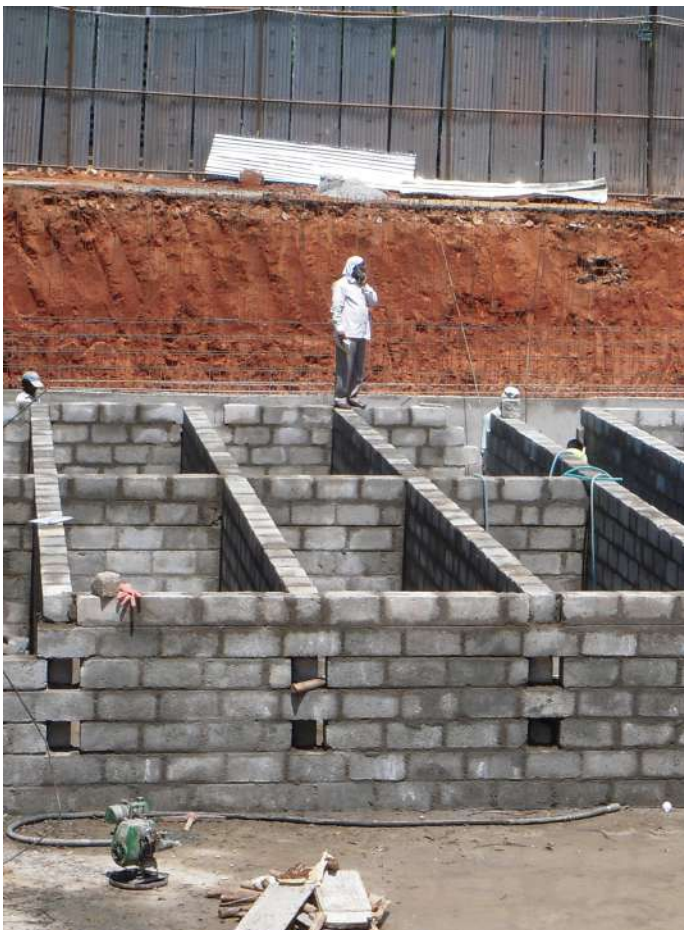
Suitable for both domestic and industrial waste water



Reliable, long lasting, and resistant to shock loads



100% pollution reduction



The approach

Ecoparadigm designed a unique DTS treatment system with the capacity for treating 850 KLD. Each DTS unit comprised of settlers, a series of fluidized bed reactors (FBR), and fixed film reactors (FFR). These high rate anaerobic reactors formed the first part of the DTS cascade. A Tertiary treatment was used for polishing.

The result

The project resulted in improved treatment of the hospital wastewater and safe reuse of the treated water for flushing and gardening.

Water treated per annum: 310 ML

Water savings per annum: Rs. 2.70 crore

Waste water outlet standards:
BOD < 06 mg/l, TSS < 04 mg/l



About Us

Ecoparadigm is a boutique Environmental Engineering and Consultancy firm implementing sustainable and eco-friendly development projects. Since our inception, we have successfully executed 280+ projects in the areas of resource conservation, sanitation, renewable energy, water management, and solid waste management globally.

Ready to

#PaveTheGreenWay?

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