ECOSTP is a unique patent pending sewage treatment technology based on gravity and natural principles with no requirement of operators or power and conforms to Pollution Control Board standards. The sewage 'bad water' flows through multiple chambers and the anaerobic bacteria decomposes the pollutants resulting in 'good water' coming out in Stage 4. There are no moving parts.

Sewage Treatment System Stages

Stage 1: Bio Settler
- Solid-liquid separation of the effluent
- Anaerobic bacteria decompose the pollutants
- Efficiency - BOD reduction 25% - 40%

Stage 2: FBR Fluidized Bed Reactor
- Up-flow of wastewater in a series of baffled chambers
- Activated sludge at the bottom of each chamber
- Efficiency - BOD reduction 70% - 90%

Stage 3: FFR Fixed Film Reactor
- Fixed bed or fixed film reactors
- The filter is made out of gravel, slag or plastic elements.
- Efficiency - BOD reduction 70% - 90%

Stage 4: PGF Pastel Gravel Filter (Saturated)
- PGF is made of reed planted filter bodies
- Removes NPK
- Final Polishing Stage

We are collective of global waste water consultants with deep expertise in sustainable solutions in sewage treatment. We are a focussed specialist player who does deep research and work in STPs only. Please speak to our delighted customers before you decide on your STP Technology.

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Speak to our delighted customers! Speak to us!

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This unique technology does not use chemicals or energy to treat the water, but rather mimics the processes of nature, by using a combination of microorganisms, plants and gravel to clean sewage water and return clean water back to mother earth completing the ‘cradle to cradle’ sustainable lifecycle.

Compared to conventional STPs which use energy hogging motors, exhaust fans, pumps, blowers etc. our patent pending ECOSTP technology produces energy. In fact this is a paradigm shift in wastewater treatment - from consuming energy to producing energy. A 200 KLD ECOSTP based sewage treatment plant can generate 50KL/day Biogas, energy equivalent of 25 litres of Diesel.

Due to the nature of the vigorous treatment, conventional STPs generate high quantity of pathogen loaded sludge, which needs to be removed frequently. ECOSTP technology ensures much lesser sludge creation – only 5% as compared to sludge creation in traditional STPs. Sludge needs to be removed only once in 2 years.

ECOSTP technology complies to all stringent Pollution Control Board norms regarding:
- Total Suspended Solids (TSS)
- Biochemical Oxygen Demand (BOD)
- Chemical Oxygen Demand (COD)
- Oil / Grease
- Total Dissolved Solids (TDS)
- pH Levels

100% ADHERENCE

0% NOISE

no moving parts = no noise

93% LOWER MAINTENANCE COST

Conventional STP uses precious energy, which contributes to CO2 emissions.

In a world struggling to reduce CO2 emissions, ECOSTP technology ensures virtually zero CO2 emissions throughout the treatment cycle as no energy is used to treat the waste water.

200 KLD Conventional: ₹ 12 lacs p.a.

VS

200 KLD ECOSTP: ₹ 1 lac p.a.

0% CO2 EMISSIONS