

Retrofit technology for your STP

Ready for future PCB norms



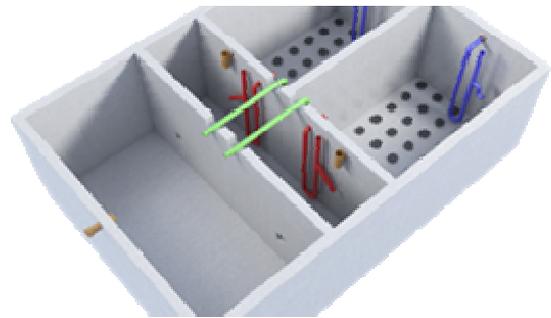
- Retrofit STP with Reliable Design—Improve Performance-
- Depend on Controls and not on Operators-
- Specialist support for your STP-Remote monitoring to your STP-
- Innovation from Nature-

Protect the environment - an opportunity to upgrade without complete renovation!

Reduce the need for large investments.

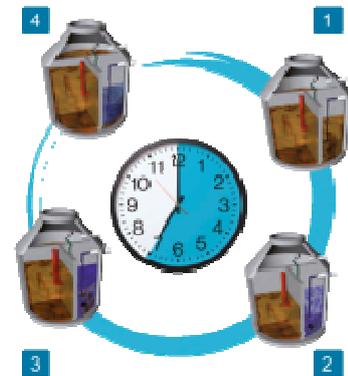
Separation

Small and mid size sewage treatment plants can now be run with operators. Our unique design of collection tanks ensures particle separation even when grease traps and bar screens fail to retain floating and settling substances. The collected particles can be removed once in a few months from the designated portion of the tank using an external agency.



Aeration and flow

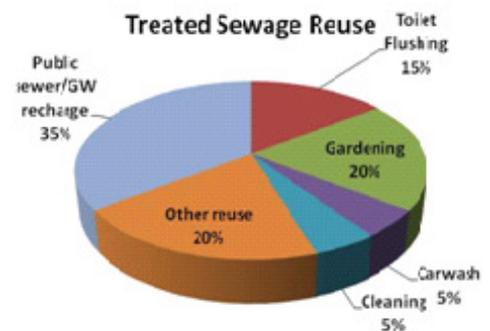
The sewage generated has pollutants that have to be consumed by micro-organisms. We provide perfect environment for natural microbes to feed on the pollutants and produce water that is safe for environment. The operations are controlled by time sequenced controller for repeating same quality of treatment all times.



Clean water for reuse

Reuse of water is for different purposes and the water need not be treated in the same way for different usage. Our design saves a lot of money that is otherwise wasted in unnecessary extra treatment of water without a purpose.

We provide the right treatment for the kind of reuse intended. This saves money, energy and environment.

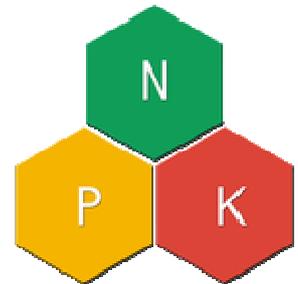


Sewage Treatment Solution- Inspired by nature, driven by intelligence!

Affordable for small communities.

Nutrient Removal

Nutrient removal is impossible in continuously aerated plants, in EcoSBR series of plants nutrient is removed to a very high degree. Thanks to sludge recycling and intermittent aeration process. All our plants can remove nutrients biologically without need for chemicals and additional installations.



Need for High Treatment Performance

When there is a need for high treatment performance in conditions where there are many limiting factors such as space, power fluctuations/ cuts and varying loads it is simply possible to treat the sewage without any excuse. Our special program can accommodate the process in any condition to provide consistent treatment.

Benefits

Each EcoSBR plant is designed with our in depth knowledge and experience in sewage treatment systems and according to the need improve treatment standards in existing sewage treatment plants. EcoSBR follows a flexible design methodology by combining continuous and batch activated sludge process in existing plants. This combination makes it interesting when compared to conventional sewage treatment methods:

Advantages

- Favourable acquisition cost for new and upgradation
- Low maintenance as we avoid using complex electro mechanical equipments
- Very high operational safety
- Low energy consumption
- Simple and robust in construction, thus less headache for buyer
- No use of chemicals
- We avoid usage of too many pumps and mechanical devices

STP too loud?

Operator not reliable?

Outdated STP?

Revised treatment values?

Improved quality requirements?

Trouble with the authorities?

High operating costs?

Recurring expensive repairs?

EcoTec Engineers and Consultants

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Chennai 603 112
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sales@ecotec.in



Great Lakes Institute of Management / Education Institute
Hostel and Kitchen Wastewater 130 KLD



Northern Command- Udhampur
Residential community 20 KLD

System Type	EcoTec ESBH
Designed by	EcoTec Engineers and Consultants 2/54B, Mookiah Gardens, Off East Coast Road, Muttukadu, Chennai - 603 112, India
Installed by	Capital General Agency
Inlet Parameters	800 x 400 m ³ /d
Size of Plant	40 KLD
Treated Water Parameters	800 x 20 m ³ /d
Type of Controller	ESBH Axiom
No. of Reactors	One and under ground
Compressor Type	60 Bar, 3000 G
Decantation Methodology	Phosmax/Clarifier 300
Special Consideration in Design	There is an existing septic tank, the reactor and the clarifier are fully utilized. The treated water is used for garden irrigation.



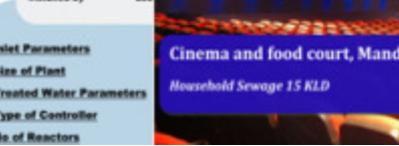
Chettinad Villas for 68 HH
Household sewage wastewater 40 KLD

System Type	EcoTec ESBH
Designed by	EcoTec Engineers and Consultants 2/54B, Mookiah Gardens, Off East Coast Road, Muttukadu, Chennai - 603 112, India
Installed by	EcoTec Engineers and Consultants
Inlet Parameters	800 x 400 m ³ /d
Size of Plant	40 KLD
Treated Water Parameters	800 x 20 m ³ /d
Type of Controller	ESBH Axiom
No. of Reactors	One and underground
Compressor Type	Beck compressor
Decantation Methodology	Phosmax/Clarifier 300
Special Consideration in Design	The project is a retrofit into an inadequately designed existing plant. The existing tanks have been used as collection and treated water tanks. There was lack of space for new underground construction, so the reactor has been constructed on the ground. Our design solved the treatment issue faced by the community for years..



Office in Chennai with 150 Employees
Sewage water quality 12 KLD

System Type	Eco
Designed by	Eco
Installed by	2/54 Muttukadu



Cinema and food court, Mandi, Himachal Pradesh
Household Sewage 15 KLD

Inlet Parameters	800 x 400 m ³ /d
Size of Plant	40 KLD
Treated Water Parameters	800 x 20 m ³ /d
Type of Controller	ESBH Axiom
No. of Reactors	One and underground

Project for 44 HH

System Type	EcoTec ESBH
Designed by	EcoTec Engineers and Consultants 2/54B, Mookiah Gardens, Off East Coast Road, Muttukadu, Chennai - 603 112, India
Installed by	EcoTec Engineers and Consultants
Inlet Parameters	800 x 400 m ³ /d
Size of Plant	40 KLD
Treated Water Parameters	800 x 20 m ³ /d
Type of Controller	ESBH Axiom
No. of Reactors	One and underground
Compressor Type	Beck compressor
Decantation Methodology	Phosmax/Clarifier 300
Special Consideration in Design	The project is a retrofit into an inadequately designed existing plant. The existing tanks have been used as collection and treated water tanks. There was lack of space for new underground construction, so the reactor has been constructed on the ground. Our design solved the treatment issue faced by the community for years..

System Type	EcoTec ESBH
Designed by	EcoTec Engineers and Consultants 2/54B, Mookiah Gardens, Off East Coast Road, Muttukadu, Chennai - 603 112, India
Installed by	EcoTec Engineers and Consultants
Inlet Parameters	800 x 400 m ³ /d
Size of Plant	40 KLD
Treated Water Parameters	800 x 20 m ³ /d
Type of Controller	ESBH Axiom
No. of Reactors	One and underground
Compressor Type	Beck compressor
Decantation Methodology	Phosmax/Clarifier 300
Special Consideration in Design	The project is a retrofit into an inadequately designed existing plant. The existing tanks have been used as collection and treated water tanks. There was lack of space for new underground construction, so the reactor has been constructed on the ground. Our design solved the treatment issue faced by the community for years..

It was in the property. The STP has addressed the issue of similar projects faced by the promoter. The plant community so far did not face the issue of sewage overflow unaffected by the Chennai floods. Thanks to our special design.