

THE SMARTER WAY TO TREAT SEWAGE

SAVE MONEY, POWER & THE PLANET

Bioman Bio STP - Proven, Non-Electric sewage
Treatment Solutions with 25 Years Warranty



WHY BIOMAN?

Zero Power Consumption

Runs without motors, pumps, or blowers

Save up to ₹1 Crore

Drastic reduction in lifetime O&M costs

25-Year Warranty

Built in M40 Concrete & GFRP for unmatched durability

Eco-Friendly

No noise, no odor and 100% Meet the Norms of PCB

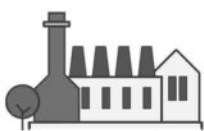
Ready-to-Use

Works even with 1 user load (unlike conventional STPs needing 40% load)

Attention

Bioman Bio STP offers robust, sustainable sewage treatment using Anaerobic Bio-digestion Reactor Technology (ABRT), a modern, energy-efficient system ensuring 65–80% pollutant removal with low maintenance and no aeration power, ideal for businesses, builders, and institutions.

Ideal for



Industries
& Factories



Schools &
Institutions



Resorts
& Hotels



Hospitals
& HealthCare



Residential
Apartments

PROJECT@
VOC PORT,
TUTICORIN

120 KL

PROJECT@
UPPASANA
HOTEL,
KANCHIPURAM

120 KL

PROJECT@
GRAND
ELLORA,
CHENNAI

80 KL

PROJECT@
SRIRAM
BUILDERS,
THIRUVANNAMALAI

GFRP Tanks
40 KL

FEATURES

Rugged & Reliable

Efficiently treats sewage using continuous flow fixed-film technology

Minimal Maintenance

No proprietary parts requiring replacement

Quick Installation

Supplied ready-to-install, commissioning in just 30-45 days

Customizable

Plants designed to meet your specific needs

Compact Design

Space saving and easily blends with surroundings

BENEFITS



Drastic Cost Savings

Lower capital and Operational expenditure compared to conventional STPs



Energy-Free Operation

Operates without electricity, reducing carbon footprint and operational costs



High Performance

Delivers consistent treatment results, even under variable conditions








Long-Term Durability


Built to last, providing decades of trouble-free sewage treatment

Our Few Happy Clients Across South-India



WHY CHOOSE BIOMAN OVER CONVENTIONAL STPs?

Conventional STPs	Bioman Bio STP
 Needs Power 24/7	 Runs without Electricity
 Blowers, Pumps, Frequent Breakdowns	 No moving parts, zero breakdowns
 High annual maintenance costs	 Saves 80% O&M costs
 Needs 40% occupancy to function	 Works with even 1 user load
 Skilled Manpower required	 Simple operation, no skilled, manpower needed




Noisy, Complex plant

Simple Bioman Bio STP Plant

Community Contributions

1. **Contribution to SDGs:** Aligns with sustainable Development Goals (SDG 6 - Clean water and sanitation, SDG 11 - Sustainable Cities).
2. Bioman Bio STP are the Low-maintenance systems which actually promoted as **Low Maintenance Wastewater Treatment System (LOMWATS)**.

HOW BIOMAN BIO STP WORKS?

1. Settler/ Equalization Tank

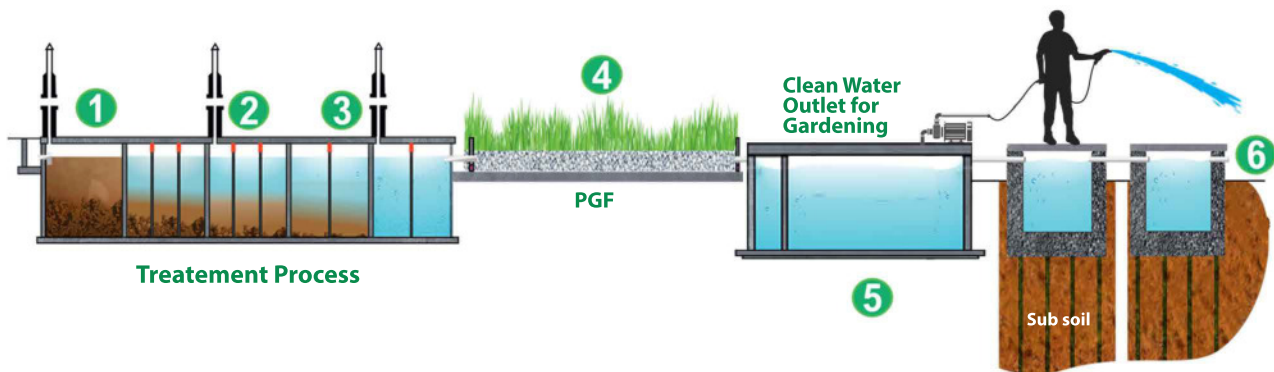
The settler is a closed tank consisting of two or three chambers with 16-24 hours of retention time that traps a significant portion of heavier solids and floating particles while letting the rest pass into the following modules.

- Stage** - Primary Treatment
- Efficiency** - 20-30%
- Maintenance** - Monthly inspection of wastewater flow
Monthly removal of scum
Removal of sludge - once in 3-5 years

2. Anaerobic Baffle Reactor

Consists of multiple chambers in series, connected with down take pipes. The wastewater is made to pass in an up-flow fashion, thereby establishing a contact with sludge blanket formed at the bottom. The combination of sedimentation and anaerobic sludge digestion ensures removal of suspended and colloidal particles.

- Stage** - Secondary Treatment
- Efficiency** - 65 - 80%
- Maintenance** - Monthly inspection of WW flow
Desludging every 5 years



3. Biofilm Filter Media

Consists of up-flow chambers connected in series, partially filled with Bio filter media. The biofilm formed on filter media traps and degrades finer suspended organic particles when wastewater passes through it. The pipes, specially designed plastic media is used for better performance

- Stage** - Advanced secondary treatment
- Efficiency** - 75 - 90%
- Maintenance** - Monthly inspection of WW flow
Desludging every 5 years
Washing of filter media- when treatment efficiency reduces

4. Reed Bed/PGF

A shallow concrete tank of graded gravel or pebbles and selected species of plants (such as Reed, Canna indica or Cyperus papyrus) to treat remaining pollutants by biological conversion, filtration and surface aeration. It can be integrated into the landscape.

- Stage** - Tertiary Treatment
- Efficiency** - 80 - 95%
- Maintenance** - Monthly removal of weeds from top
Trimming of plants once in 3 months

5. Disinfection / Ozonation Tank

A concrete tank with disinfectant doser is used to kill bacteria, virus and other microbes in water in particular chlorination is used to prevent the spread of waterborne diseases. We can alternatively use Ozone as a powerful oxidising agent which will dissolved in water produces a broad spectrum biocide that destroys all bacteria, viruses and cysts.

- Stage** - Post Treatment
- Efficiency** - 90-97%
- Maintenance** - Periodical filling of chlorine

6. Percolation Wells

Treated water can be used for gardening, irrigation, surface disposal, or toilet flushing when the above options are limited we can provide percolation wells for partial disposal of treated water in the ground

- Stage** - Disposal options
- Maintenance** - Quarterly inspection and preventive maintain for chocking

TRUSTED ACROSS SOUTH INDIA

- 400+ Installation
- 4.6 Million litre Sewage Treated Daily
- Treated water reused for gardening, Flushing & Groundwater Recharge.
- NGT, CPCB and All State PCBs Norms met.



Meet the Norms of




Member of



Registered in



Schedule a  **800 655 4400**
free Consultation  **ask@biomanstp.com**

Visit for more info  **biomanstp.com**

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