

Your STP Should Work. Not Trouble You.

Bioman BioSTP –
The No-Electricity STP That
Never Stops



✓ 100% Non-Electric | 🌿 No Breakdown | 👤 No Operator Required

Why Most STPs Become a Headache After Installation

Across India, thousands of sewage treatment plants fail not because of design, but because they are too complex for real-world conditions.



Power Failure



Frequent Breakdowns



Operator Dependent



High AMC Cost

Conventional STPs:

- Depend heavily on continuous electricity
- Require trained operators every day
- Fail during power cuts & low occupancy
- Incur high AMC and repair costs
- Become non-compliant within a few years

Result:

Residents complain. Authorities issue notices. Owners spend lakhs every year just to keep the STP alive.



Your STP Should Work. Not Trouble You.

Built for Indian conditions, power cuts,
and low-occupancy realities.

How Bioman Solves This

Bioman BioSTP is engineered to work silently in the background, without demanding daily attention.




- ✓ No moving parts
- ✓ No electrical dependency
- ✓ No daily supervision
- ✓ Stable-performance year after year

Once installed, the system runs on gravity and biology, not machinery.



Why Pay Electricity Bills for Sewage?

Treat sewage naturally — without consuming a single unit of power.

-  High Electricity
-  Operator Cost
-  Frequent Repairs





₹6-12 lakhs/year

₹2-5 lakhs/year on operators & AMC



Savings over 20-25 years can exceed **₹1 crore** for medium to large projects.



-  Zero Electricity
-  No Moving Parts
-  Lowest Lifecycle Cost

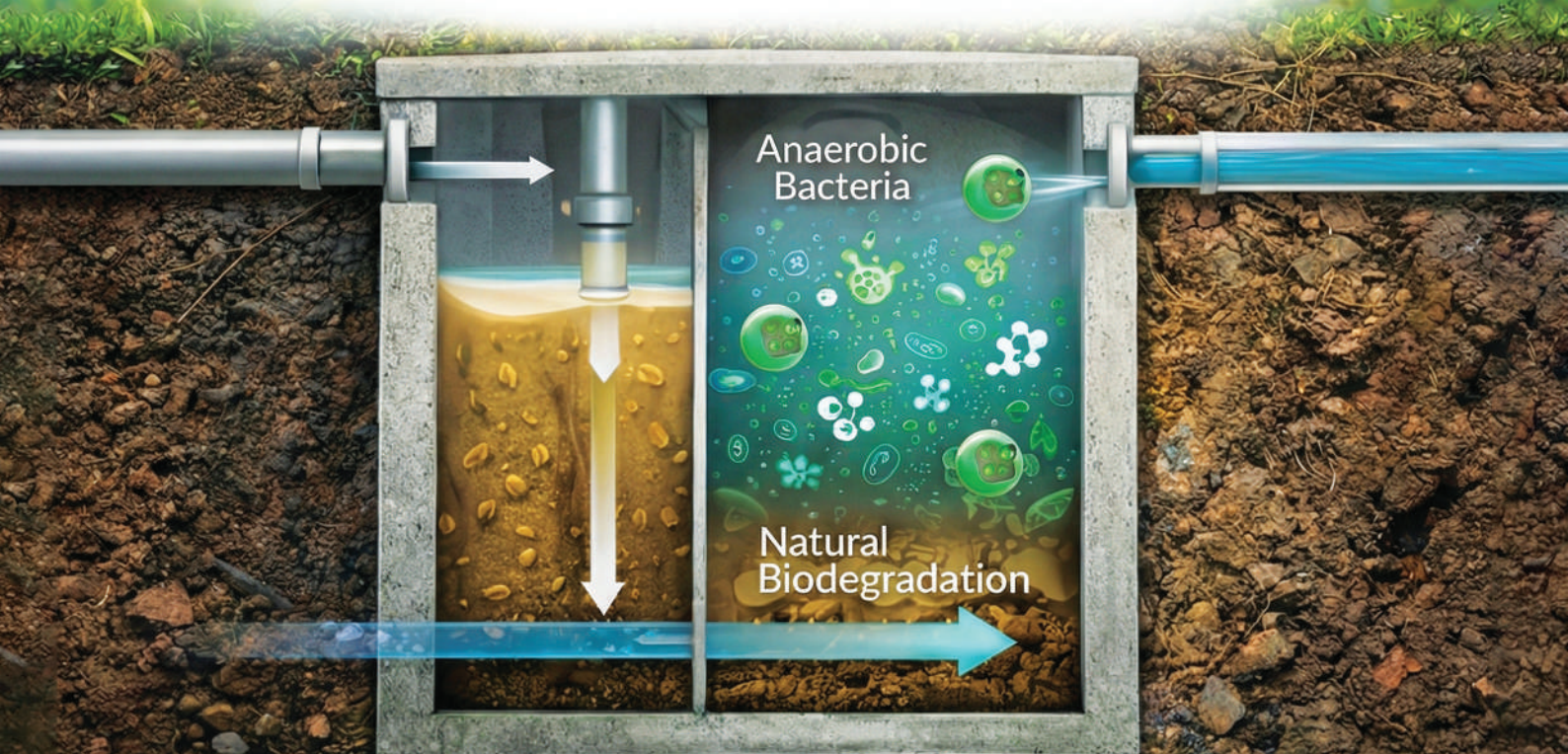


Nature Treats Sewage Better Than Machines.

Anaerobic, non-electric sewage treatment inspired by nature.

The Science Behind Bioman

Bioman uses Anaerobic Biodigestion Reactor Technology (ABRT) – a proven natural process where microorganisms break down waste without oxygen or electricity.



- ✓ Stable
- ✓ Energy-free
- ✓ Silent
- ✓ Highly durable



₹1 Crore+ Savings Over 25 Years.

No Power. No Operator. No Headache.

Designed to work quietly — so you don't have to manage it.



How it works (Simple Explanation)

Sewage flows by gravity into the system | Anaerobic bioculture digests organic waste
Solids settle and decompose naturally | Clear, Odour-free treated water flows out

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

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

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

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

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

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

Save Crores on Sewage Treatment.

Zero electricity, minimal maintenance and Consistent of performance.

Conventional STP

-  High Electricity
-  Mandatory Operators
-  Expensive AMC
-  Frequent Breakdowns

Bioman BioSTP

-  Zero Electricity
-  No Operators
-  Minimal Maintenance
-  Stable Compliance

Very High Lifecycle
Cost

Lowest Lifecycle
Cost



Treated Water Quality & Usage

- ✓ Gardening & landscaping
- ✓ Groundwater recharge
- ✓ Toilet flushing (with polishing if required)
- ✓ Safe disposal as per PCB norms

Odour-free. Stable. Reliable.



Ideal For



Apartments
& Gated Communities



Villas &
Plotted Layouts



Schools
& Colleges



Factories &
Warehouses

Compliance & Trust

- ✓ CPCB / SPCB Compliant
- ✓ Accepted across multiple States
- ✓ Approval Drawings Provided

Brands who trust us



Greater Chennai Corporation

Tamil Nadu Govt.,

- ◆ Marina Beach
- ◆ Light House
- ◆ Queen Victoria Hall
- ◆ Rippon Building
- ◆ Leaders Memorial at Beach

Brands who trust us



Why Clients Choose Bioman

- ✓ Hundreds of installations across South India
- ✓ Millions of litres treated daily without electricity
- ✓ Proven field performance – not lab theory
- ✓ Engineering & Manufacturing under one roof.

**Stop Managing Sewage.
Start Forgetting It.**



Trusted across multiple states

- ☎ Call for Free Consultation & Design Support
- 📍 Factory-Made | Delivered Across India
- 🔧 Installation | Documentation | Support

📞 **800 655 4400**
✉ **ask@biomanstp.com**
🌐 **biomanstp.com**

BIO-MAN[®]
Non-electric Sewage Treatment Plant



Chennai | Bengaluru | Hyderabad | Vijayawada | Vishakapatnam | Coimbatore | Mysuru | Madurai | Trichy
Tirupur | Salem | Erode | Tanjavur | Vellore | Hosur | Tiruvannamalai | Puducherry

Follow us on