



PACKAGED SEWAGE TREATMENT

SUSBIO ECOTREAT

Advanced packaged STPs,
engineered for the future.



ECOTREAT at a glance

A fully packaged plant that treats more, costs less to run, and needs no dedicated operator.

RUNNING COST

70 %

lower than conventional STPs at every capacity

WARRANTY

10 yrs

structural warranty on the FRP shell

COD HANDLING

550

mg/L inlet COD — vs 450 max for Johkasou

OPERATION

0

operators needed — fully automated, hands-off

Module types

One platform, three form factors — sized from a single home to a township.

1–3

01

KLD



Compact single-piece unit for individual homes & small households.

Villas

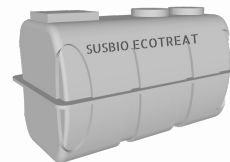
Bungalows

Farmhouses

5 & 10

02

KLD



Mid-range modules for apartments, schools & small commercial sites.

Apartments

Schools

Resorts

15

03

KLD & above



Heavy-duty multi-tank trains for townships, hotels & industry.

Townships

Hotels

Industry

THE PROCESS

How ECOTREAT works

Four treatment zones inside one buried FRP shell — continuous, automated, no operator.

01 Primary Settling

Oil & grease trapped; heavy solids settle out under gravity.

02 Anoxic

Oxygen-free bacteria break down organics and denitrify.

03 Aerobic / MBBR

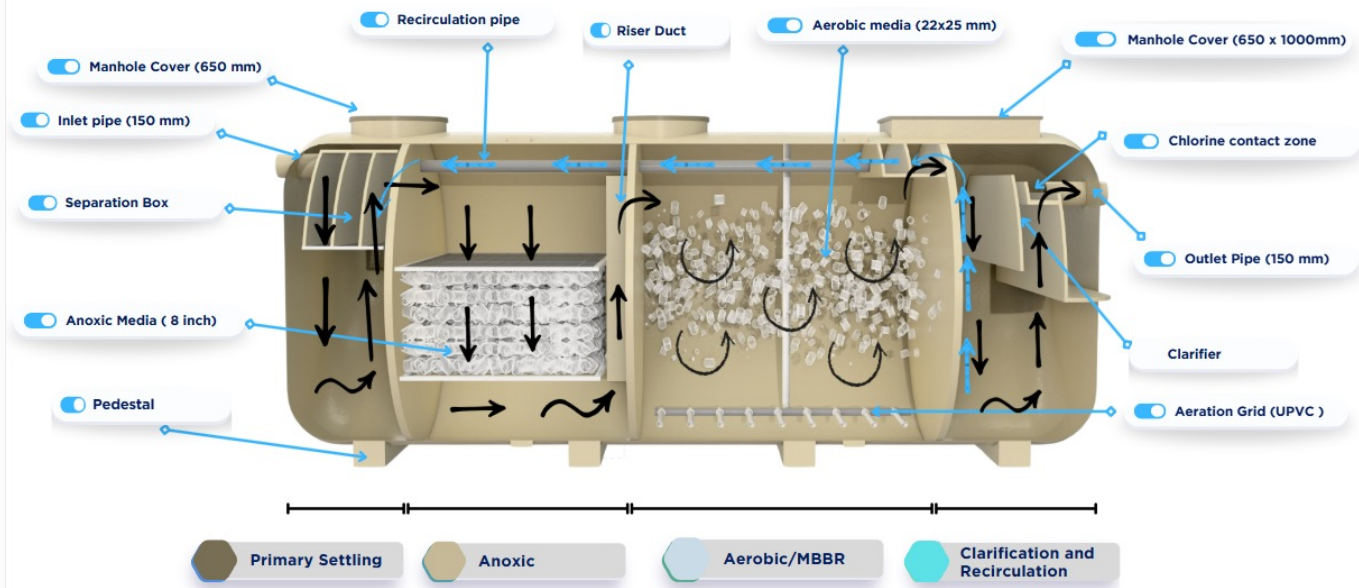
Moving-bed biofilm carriers oxidise ammonia to nitrates.

04 Clarification & Recirculation

Clarifier settles biomass; clear, polished water to outlet.

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SUSBIO ECOTREAT



Continuous nitrification & denitrification, in succession

STAGE 1 · ANAEROBIC

Decomposition

Breaks down organic matter and removes suspended solids.

Organics → **sludge**

STAGE 2 · AEROBIC

Nitrification

Bacteria convert ammonium into nitrites and nitrates.

$\text{NH}_4\text{-N} \rightarrow \text{NO}_x\text{-N}$

STAGE 3 · ANAEROBIC

Denitrification

Nitrates are converted to harmless nitrogen gas.

$\text{NO}_x\text{-N} \rightarrow \text{N}_2$

The result: **effective, low-nitrogen treatment** — the ultimate goal of the process.

WHERE IT FITS

Applications

One packaged platform — sized from a single villa to a 100+ KLD township.



Residential Societies & Apartments



Hotels, Resorts & Commercial Buildings



Factories & Industrial Units



Hospitals & Healthcare Facilities



Villas & Bungalows



Schools, Colleges & Universities

Design basis

Guaranteed treated-water parameters — from raw inlet to tertiary-polished reuse quality.

Sr.	Parameter	Inlet	Outlet	After Tertiary
1	pH	5.5 – 9.0	5.5 – 9.0	5.5 – 9.0
2	COD (mg/l)	450 – 550	50	< 50
3	BOD (mg/l)	200 – 250	20	< 10
4	TSS (mg/l)	300	100	< 20
5	Oil & Grease (mg/l)	20	10	< 10
6	Total Nitrogen (mg/l)	20	10	< 10
7	Ammoniacal Nitrogen (mg/l)	15	5	< 5

Six reasons ECOTREAT stands apart



Super-fast installation

Plug-and-play packaged unit — installed in-house, in days not weeks.



70% energy savings

Low-power aeration design slashes electricity bills versus conventional STPs.



Fully automated

Runs hands-off with no dedicated operator required on site.



Quick & easy maintenance

Accessible chambers and a simple service routine keep upkeep minimal.



Advanced nitrogen treatment

Built-in nitrification & denitrification removes nitrogen, not just solids.



No leaks, smells or noise

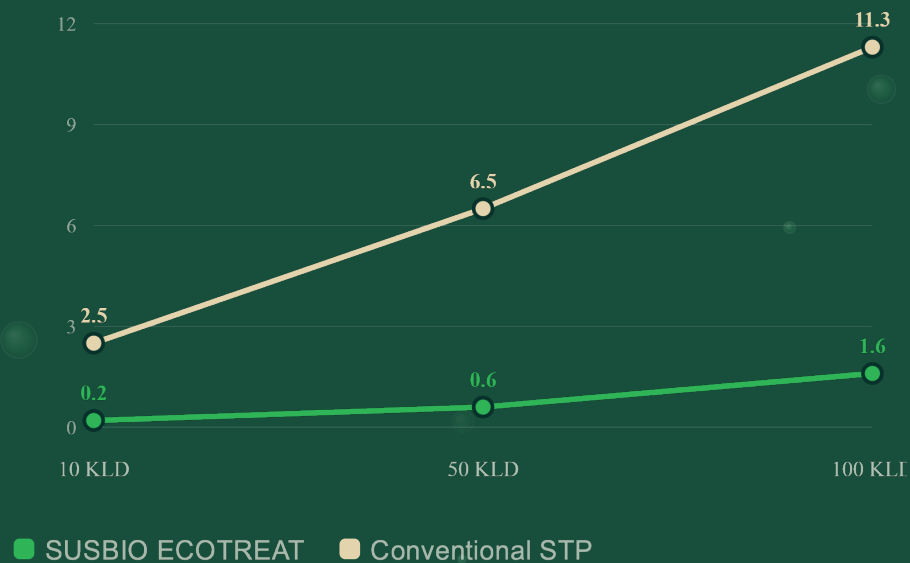
Sealed FRP shell operates cleanly — safe for residential surroundings.

ECOTREAT vs Johkasou

PARAMETER	JOHKASOU	★ RECOMMENDED  SUSBIO ECOTREAT
Installation	Outsourced	In-house
COD limits (mg/L)	Up to 450	Up to 550
Warranty	1-year standard	10-year structural
Design & structure	Fixed design, thinner walls	Customizable, thicker, built for India
After-sales support	Weak	Dedicated support
Customization	Fixed solution	Custom models
Price	20% higher	Cost-effective

Running cost comparison

Annual running cost — Lakh INR / year



PLANT CAPACITY

50 KLD

Conventional ECOTREAT
₹6.5 L/yr ₹0.6 L/yr

You save approximately

₹5.9 Lakh / year

THE SMARTEST STP

SUSBIO ECOTREAT PLUS

Advanced IoT monitoring, built in.

Real-time monitoring of COD, BOD, TSS, pH, dissolved oxygen, water level and pump status — with instant alarms and proactive maintenance from any device.



Secure Login

Organisation-level access control



Live Dashboard

Plant video feed & status at a glance



Real-time Sensors

DO, pH, BOD, COD, TSS, level & temp



Remote Operation

Switch pumps & devices from anywhere



Customised Alerts

Threshold alarms via SMS, email & WhatsApp

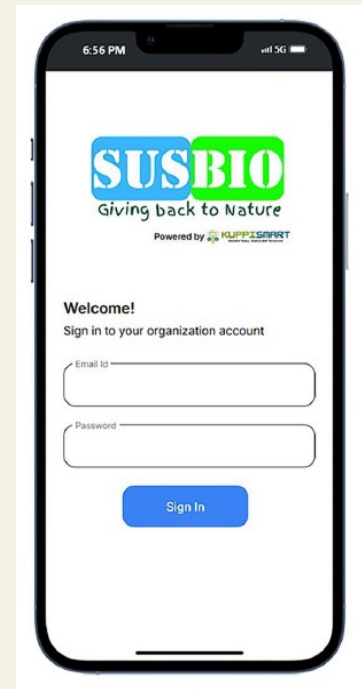


Detailed Statistics

Trends, insights & full history

• SUSBIO ECOTREAT PLUS

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User Login

Secure organisation sign-in

Treated water quality

Clear, odourless output you can hold up to the light — treated on real installation sites.

- Safe for toilet flushing
- Gardening & landscaping
- Floor washing

- SUSBIO ECOTREAT



IN THE FIELD

Installations in the field

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Crane placement on site



Twin-tank installed below ground



Single-piece delivery



Compact home unit



With polishing filters

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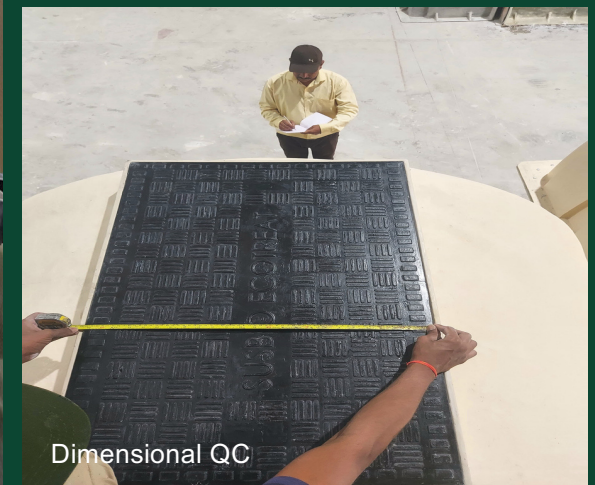
BUILT IN-HOUSE

Manufacturing expertise

Every shell is fabricated, cured and quality-checked in our own FRP facility — no outsourcing.

- In-house FRP fabrication
- Overhead-crane handling, up to 50T
- Dimensional QC on every unit

● SUSBIO ECOTREAT



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— TRUSTED ACROSS INDIA & BEYOND

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Our clientele

From Fortune-500 campuses to landmark hospitality, institutions and infrastructure — SUSBIO treats water on India's most ambitious sites.

Indian Railways

Adani Group

TATA Projects

Indian Navy

ICICI Bank

Radisson Blu

Isha Foundation

Bisleri

BITS Pilani

Murugappa Group

Pernod Ricard

RMZ Corp

Prologis

House of
Abhinandan Lodha

Isprava

Vianaar Homes

Podar Schools

Rinac India

Mall de Goa

NANU

Thank you. ■

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Let's build a cleaner world together