

1

Problem Statement

63%

Untreated Sewage

Disposed of in Rivers

80%

Wastewater

Flows back into the ecosystem

90%

Surface Water

Ground Water & rivers are Contaminated

Pathogens

Human feces contain harmful pathogens and are highly dangerous.

Deadly Diseases

When human feces seep into groundwater or rivers, they can foster life-threatening diseases such as **cholera**, **dysentery**, and **typhoid**.

Expensive Process

The process of manual fecal evacuation or scavenging is not only costly and labor-intensive, but also poses a risk to human life.

Million people die annually due to contaminated water

3.57*

2.2 Million Children < 5 Years

* Source WHO / Healing Waters & Times of India Dt. 22/03/2023

2

Slide 2

DDO test

Derek Dsouza, 2022-11-03T10:01:53.736

AEROBIO



COMPLETE SOLUTION
Twin Pit / Septic Tanks

FECAL MATTER
AEROBIO breaks down the fecal matter, getting rid of the sludge and producing pH 7 (neutral) water and CO₂.

LOW OXYGEN
No aeration is needed as the consortium is a facultative aerobe, i.e. can survive in low dissolved oxygen concentration



TEMPERATURE
AEROBIO can operate efficiently in a temperature range from below sub zero to 45 degrees Celsius.

ODOUR
Aerobio is capable of eliminating any pungent/ rotten egg odour within 24 to 72 hours.


HARMLESS
The formulation is composed of harmless indigenous non-pathogenic bacteria.



AEROBIO is an all-in-one environmentally safe and friendly solution.

3

AEROBIO Advantage



A Easy to use Product

B No Maintenance

C Only Recharge Required

D Affordable & Easy Storage

E No Renewable or Non Renewable Energy Required

True Sustainability

F Harmless and Eco Friendly

G Converts Faecal Waste to clean non Toxic Water

H No manual evacuation of septic tank needed*, eliminates Sludge

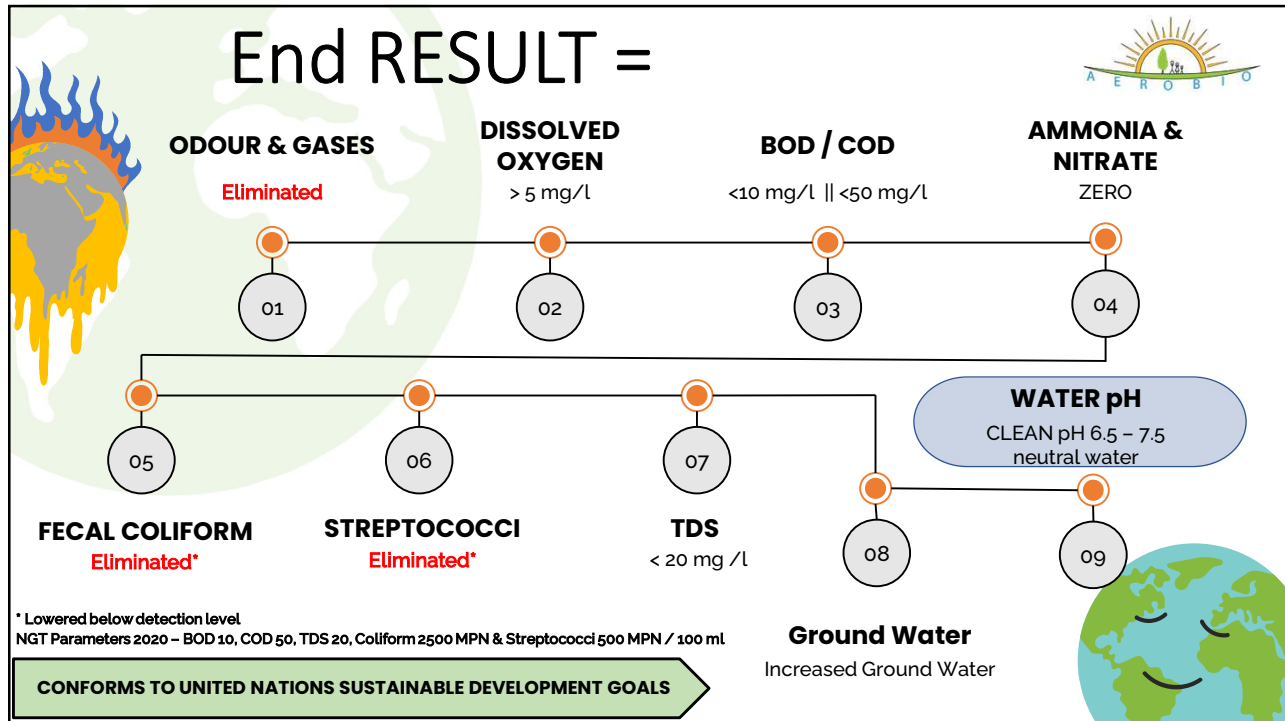
I Low Dosage

J Ready off the self Product

CONTROL WATER CONTAMINATION / SAVE RIVERS

CONTROL DISEASES / MORTALITY

4




5



6


Twin Pits



Disadvantages

- a Requires More Space
- b Depth Limitation
- c Pit Management *
- d Insect Breeding
- e Risk of Ground Water Contamination
- f Switching Pits
- g Contaminated Compost
- h Manual Scavenging Required

* Needs to be left 1 – 2 Years






AEROBIO Advantages







- 1 Ensures Pit readiness before Switch
- 2 Low Dosage
- 3 Aerobio works even in Low Oxygen Env
- 4 No Contamination
- 5 Safe Compost
- 6 Harmful Bacteria Eliminated
- 7 No Manual Evacuation required






7

Why AEROBIO




-  **AWARD WINNING**
Multiple Award Winner, Top 100 Innovations, MSME Award, Best Bio Science
-  **INDIGENOUS**
Aerobio is a indigenous bacterial Consortia & Made in India
-  **MSME - Udyam ST/SC**
AEROBIO is a MSME Udyam Registered Company
-  **R&D & MANUFACTURING**
Own R&D and manufacturing plants in India
-  **INDEPENDENT CERTIFICATION**
Independent Certification and Tests carried by Third Party Agencies
-  **DEVELOPMENT**
Developed at IISER Kolkata based on R&D MOU

8


Product Validation


Site : Contai School – West Bengal
Type : Septic Tank
Age : 30 + Years
Year : 2021



Before Dosing


- High Usage Toilets during School Hours
- Constant Clogging Leading to Evacuation
- Foul Odour in the Toilets
- High Risk for Children
- Thick Sludge






After Dosing

- Odour Eliminated
- No Evacuation till date
- Water test found no Ecoli
- Safe Environment for Children
- No Sludge found






9

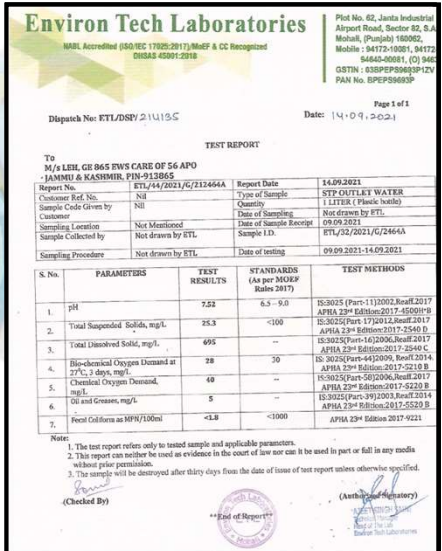
Product Validation

Site : Ladakh (Sub Zero Temperature)
Type : Twin Pits
Age : Unknown
Year : 2018



Before Dosing

- Sludge Solidified
- Foul Odour
- High concentration of Ecoli
- Manual Evacuation was not possible
- Ground water Contamination



After Dosing

- Odour Eliminated
- Sludge converted to Water
- No Ecoli found
- pH 7 (Neutral) Water

10

Product Validation

Site : **Taj Hotels Bangalore**
 Type : STP
 Age : Unknown
 Year : 2023



Before Dosing

Foul Odour
 Guests Complaints
 Too much floating Scum
 Sludge Had to be manually Evacuated



After Dosing

Odour Eliminated
 Sludge converted to Water
 No Guest Complaints



11

Product Validation

Site : **IMC Arunachal – Chimpu Police Station**
 Type : Septic Tank
 Age : 22 Years
 Year : 2023



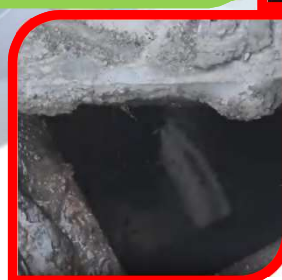
Before Dosing

Foul Odour
 High Concentration of Ecoli
 Floating Scum
 Ground water Contamination



After Dosing

Odour Eliminated
 No Visible Floating Scum or Sludge Found
 Awaiting Results



12

Product Validation

Site : WPCB – Product Validation - **Sports Hostel - WB**
 Type : Septic Tank
 Age : 5 Years
 Year : 2023



Before Dosing

Sludge Solidified
 Foul Odour
 High concentration of Ecoli
 Manual Evacuation was not possible
 Ground water Contamination



After Dosing

Odour Eliminated
 Sludge converted to Water
 No Ecoli found



13

Product Validation

Site : **Public School - Bihar**
 Type : Septic Tank
 Age : 18 Years
 Year : 2022



Before Dosing

Septic Tank Abandoned
 Foul Odour
 High concentration of Ecoli
 Manual Evacuation was not possible
 Ground water Contamination



After Dosing

Odour Eliminated
 Sludge converted to Water
 No Ecoli found
 Septic Tanks were reused



14

Product Validation



Site : WPCB Product Validation – Kalingpong – WB
 Type : Septic Tank
 Age : 18 Years
 Year : 2022

Before Dosing

- Sludge Solidified
- Foul Odour
- High concentration of Ecoli
- Manual Evacuation was not possible
- Ground water Contamination



After Dosing

- Odour Eliminated
- Sludge converted to Water
- No Ecoli found



15

Easy Order Placement



AEROBIO is registered as an MSME and is registered under both GeMS TNSICL (The National Small Industries Corporation Limited) Procurement Portals

Both these portals allow easy procurement of both AEROBIO, AEROBIO Plus and AEROBIO Z Plus



16



17