



www.sasyaani.com

Sasyani Pvt Ltd

Eco-Friendly | Sustainable | Scalable Solutions
"Creating a Cleaner, Greener Future"

Protecting Our Planet

Sasyaani Pvt. Ltd. – Creating a Cleaner, Greener Future

About Us

- Based in Mangalore, incubated with STEP-NITK Surathkal
- Dedicated to pollution control, waste management, and sustainable agriculture
- Winner of Elevate 2023 by Govt. of Karnataka
- Vision: Restore environmental health through natural, scalable solutions



Key Concepts in Environmental Conservation

Protecting Our Natural Resources

Conserving water and energy for future generations

Community Engagement and Awareness

Educating citizens about conservation and eco-friendly actions



Sustainable Practices for All

Promoting recycling and reducing waste in communities

Innovative Solutions for Conservation

Implementing technology to enhance environmental preservation efforts



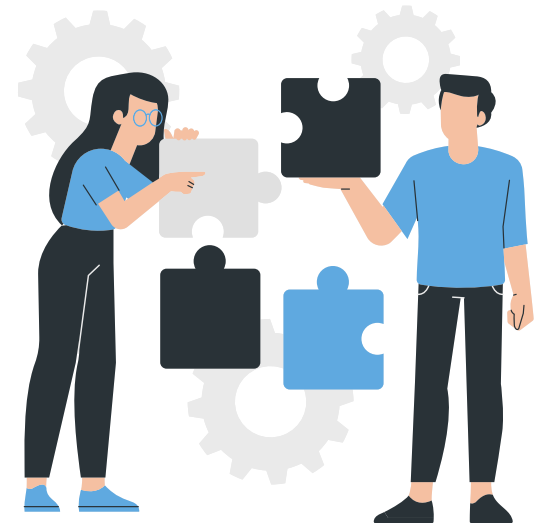
Problem Statement

- Rising Industrial & Household Pollution
- Inefficient Waste Management
- Chemical-heavy Products → Secondary Pollution
- Declining Soil & Water Quality
- → The Need: Natural, cost-effective, and sustainable solutions



Services

- a. **Waste water treatment solutions.**
- b. **Organic agriculture support**
- c. **Sustainable product development**
- d. **Environmental restoration**
- e. **Industry collaboration, awareness and training program.**
- f. **Sasyaani cosmetics**
- g. **Consultancy**



Sasyani's services are designed to provide cost-effective, scalable, and impactful solutions for industries, communities, and governments, addressing pollution at its roots and promoting sustainable practices.

Key products and its specifications

- Sasyani Filters & Biofilters – Reduce COD, BOD, odors, VOCs
- Beneficial Bacterial Consortia – Wastewater, agriculture, poultry, aquaculture
- Organic Farming Solutions – Compost, Agri Boost, Chick Boost, Aqua Boost
- Eco-Friendly Products – Cosmetics, toiletries, multipurpose cleaners



Sasyani Filters



SYBA drain treat



Agri Boost



Sasyani Compost



Chick Boost



Aqua Boost



**Multipurpose
cleaner**



**Sasyani Bodycare
Product**

- Sasyani Filters – Treat STP/ETP water, reduce COD/BOD/turbidity
- Biofilters – Control H_2S , NH_3 , VOC emissions
- Agri Boost / Chick Boost / Aqua Boost – Boost soil, poultry, and aquaculture health
- Organic Multipurpose Cleaner – Toxin-free replacement for multiple cleaners
- Eco-Friendly Cosmetics – Plant-based, chemical-free skincare

COSMETICS



New Product Launch

**100%
Natural**

**100%
Organic**



Cosmetics by Sasyani

- We researched the safety and effectiveness of organic ingredients in skin care products to create natural alternatives to harmful chemicals.
- Cosmetics can be difficult to breakdown in effluents. Our research aims to improve skin health and reduce environmental impact.



Face & Skin

- Nourishing All in One Hydrating Solutions: Perfect for full-body hydration,
- Refreshing Face Mists: Give your skin an instant boost with botanically infused hydration.

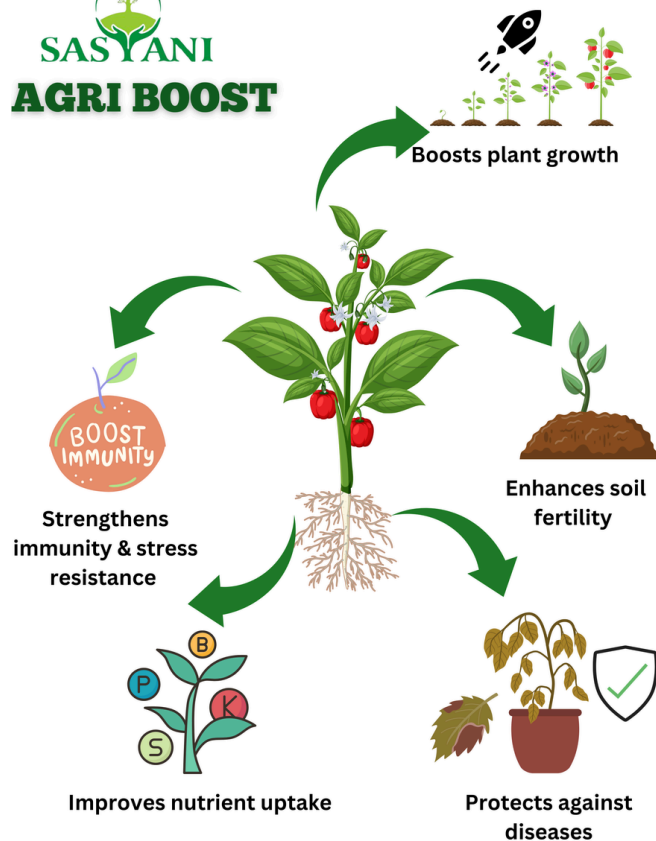
Special Treatments

- Serums & Oils: Plant-based formulas to enhance your skin's natural glow.
- Masks & Scrubs: Deep-cleansing and rejuvenating, crafted to give your skin a fresh, revitalized feel.

Achievements & Milestones

- **INR 9 Lakhs raised via Elevate Grant 2023**
- **Reduction YLD in arecanut plantations, good yield, disease resistance and increase soil fertility with Agriboost application.**
- **85% odor reduction – Mother Dairy, Bangalore**
- **60% efficiency in biofilters – ETP, Souza & Picardo**
- **80% COD, turbidity reduction - ETP, Sea food industry, Talapady.**
- **40% COD / 50% BOD reduction – Raheja Waterfront STP.**
- **70% COD reduction - STP, Pharmaceutical industry, Mangalore.**
- **60% COD reduction - STP, NITK, Surathkal.**
- **Turbidity reduction – NITK-STEP water tank**
- **Academic & industrial collaborations**

SASYANI AGRI BOOST



Cow-based Inputs
(Cow dung, urine, curd, ghee)



Sasyani Agriboost
(Powder + Liquid Formulation)



Farm Application
(Pre-treatment + 15-day intervals)



Results:

- ✓ Yellow Leaf Disease Reduction
- ✓ Improved Soil Fertility
- ✓ Increased Yield & Crop Quality



Agri Boost



Before



After

Hydroponics : We used Sasyani beneficial bacterial consortium in nutrient solutions to successfully grow crops in water-based systems without soil. The integration resulted in healthier plants with enhanced growth.



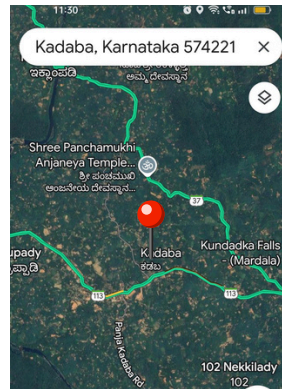
Hydroponics-Palak and tomato using Sasyani Agriboost

Field Trails/Product Testing

FIELD TRIAL HIGHLIGHTS – KADABA TALUK

Pilot Trial Results: Arecanut Recovery from YLD Using Agriboost

- **Location:** Kadaba Taluk, DK (Humid tropical, lateritic soil)
- 100 plants (1–3 years), 50 treated with Agriboost, 50 untreated
- **Visible recovery in 30 days:**
- New green shoots
- Dark glossy leaves
- Disappearance of yellow patches
- Improved plant vigor



License/Certifications

One Earth Enviro Labs LLP OEL/O/F/01/00
1st Floor, KIA Building, Industrial Area Road, Baikampady,
Mangaluru - 575 011. Ph: 0824-240 9011 Mob: +91 87625 39077
Email: oneearthenviro@gmail.com Website: oneearthenvirolabs.com GSTIN: 29AACF06684L1Z1

ISO 9001:2015 | ISO 45001:2018 Certified | MOEF & CC RECOGNISED

Report No: OTH/2024/398
Report Date: 08/11/2024

SAMPLE ANALYSIS REPORT

Name of the Industry: M/s Sasyaani Pvt Ltd.,
Address: D.No-18, STEP-NITK, Srinivasnagar, Surathkal, Mangalore-575025
Sample collected by: Given by the User
Sample Code & Name: 398- Solid Fertilizer + SYBA
Date of Sampling: 04/11/2024
Date of Sample Receipt: 04/11/2024

Analysis Start Date: 04/11/2024
Analysis End Date: 08/11/2024

Sl. No	Parameters	Unit	Result	Protocol
1	Moisture	%	13.12	IS 2720 (Part 2)
2	Nitrogen	%	3.78	IS 14684
3	Phosphorous (P ₂ O ₅)	%	1.67	FCO1985
4	Potassium (K ₂ O)	%	1.44	IS 9497
5	Calcium (as CaCO ₃)	%	10.67	IS 2720 (Part 23)
6	Magnesium (as MgCO ₃)	%	2.14	EPA 3050B, AAS
7	Copper	g/100g	0.003	EPA 3050B, AAS
8	Zinc	mg/Kg	122.91	EPA 3050B, AAS
9	Iron	%	0.94	EPA 3050B, AAS
10	Manganese	%	ND	EPA 3050B, AAS
11	Total Hardness	%	12.81	IS 2720-1972
12	Organic Carbon	%	29.37	IS 2720-1972
13	pH	Value	6.08	IS 2720 (Part 26)
14	CN Ratio	Ratio	7.1	Lab Method
15	E. coli	MPN/gm	<3	IS 5887 (Part 1)
16	Staphylococcus aureus	P/A /25gm	A	IS 5887 (Part 2)
17	Shigella	P/A /25gm	A	IS 5887 (Part 7)
18	Pseudomonas aeruginosa	P/A /25gm	A	IS 13428

ND- Not Detectable P-Present A-Absent MPN <3 Shall be treated as Absent

** End of the Report **

For One Earth Enviro Labs LLP
Authorised Signatory
S. M. Quality Manager

Note: 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless otherwise specified. Perishable samples are not retained. 4. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement might be affected due to measurement uncertainty.

**Pathogenecity test report of
Agriboost**

MSDS

1. Product and Company Identification
Product Name: Sasyaani Beneficial Bacteria (SYBA)
Recommended Use: Wastewater treatment, odor control, agriculture, and bioremediation
Manufacturer: Sasyaani Pvt. Ltd.
Address: Door No. 18, STEP-NITK, Srinivasnagar, Surathkal, Mangalore-575025
Contact Number: +91 98800 10992
Email: ranjannichitrapur@gmail.com

2. Composition/Information on Ingredients
Formulation: Aqueous or powder-based blend of non-pathogenic beneficial bacteria.
Components: Enriched compost, selected strains of microorganisms, Cow ghee, Cow milk, Cow curd, Jaggery, Fruits, Starch.
Includes strains for: Lignin degradation, Oil degradation, Nitrogen removal, Sulphur removal, Phosphorus removal, COD/BOD/TSS reduction, etc.
Fermentation: Proprietary Technology

3. Hazards Identification
Hazard Classification: Non-hazardous under normal use conditions
Health Effects:
Inhalation: Not expected to be harmful
Skin Contact: Non-irritant
Eye Contact: Mild temporary irritation possible
Ingestion: Not intended for consumption, excessive ingestion may cause gastrointestinal discomfort.
Acute Chronic Health Hazard: Not known.
Carcinogenicity: N/A

4. First Aid Measures
Inhalation: Move to fresh air
Skin Contact: Wash with soap and water
Eye Contact: Rinse thoroughly with clean water
Ingestion: Rinse mouth; seek medical advice if discomfort occurs

5. Fire-Fighting Measures
Flammability: Non-flammable
Extinguishing Media: Water, foam, CO₂, or dry chemical
Protective Equipment: Use standard fire-fighting gear

6. Accidental Release Measures
Personal Precautions: Keep away products or materials which are incompatible to fermentation smell.
Absorb with inert material
Clean area with water
No special disposal required

7. Handling and Storage
Handling: Wash hands after use, avoid contact with food or drinking water and avoid inhalation of powder in bulk handling
Storage: Store in a cool, dry place away from sunlight. Do not freeze. Keep away from heat and incompatible products due to fermentation smell. Keep in original container only.

8. Exposure Controls/Personal Protection
Engineering Controls: General ventilation

PPE: Gloves and eye protection recommended for industrial applications
Hygiene Practice: Practice good hygiene and safety practices
9. Physical and Chemical Properties
Appearance: Beige or light yellow liquid or light yellow to grey powder
Odor: Mild fermented scent
pH: 6.0 - 8.0
Solubility: Fully dispersible in water

IMPORTANT HEALTH AND SAFETY AND ENVIRONMENTAL INFORMATION
Boiling point: N/A
Explosive Properties: Non-Explosive
Vapor Pressure: Develops little gas while transporting and provisions has been made to release the gas.
Vapor Density: Very small and enough provision is made in packing.
Bulk Density: N/A Evaporation: N/A
Decomposition Temperature: N/A
Viscosity: Moisture 95 percent

10. Stability and Reactivity
Stability: Stable under normal conditions
Hazardous Decomposition: None known
Conditions to Avoid: Contamination of any kind and excessive heat.

11. Toxicological Information
Acute Toxicity: Non-toxic
Chronic Effects: None known
Carcinogenicity: Not known

12. Ecological Information
Eco-toxicity: Beneficial to soil and aquatic ecosystems
Biodegradability: 100% biodegradable
Acute Toxicity: None known
Persistence and Degradability: None known

13. Disposal Considerations
Safe for composting or dilution in wastewater treatment systems
Follow local environmental guidelines

14. Transport Information
UN Number: Not applicable
Transport Classification: Non-hazardous
Packaging: Leak-proof containers recommended. Preparations does not contain ingredients listed as dangerous substance.

15. Regulatory Information
Compliant with microbial product safety and environmental regulations

16. Other Information
Disclaimer: The information is based on current knowledge and is intended to describe the product in terms of health, safety, and environmental requirements only.

MSDS

**रसायन अभियांत्रिक विभाग
DEPARTMENT OF CHEMICAL ENGINEERING
राष्ट्रीय प्रौद्योगिकी संस्थान कर्नाटक, सुतकल
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**

Ref. No. ChE/ T&C/1053/2023-2024 Date: 01.01.2024

TEST REPORT

To: Dr. Ranjani Chitrapura,
STEP NITK,
Surathkal.

Reference: Letter dated 14.12.2023
Description of the sample: Decomposed Material Samples sent by the party.
Nature of the Test: Chemical Analysis

RESULTS OF THE TEST

Sl. No.	Parameters	Sample of garbage materials of	
		KCDC	Probiotics
1	Moisture wt%	13.74	28.60
2	Nitrogen as N wt%	0.1	0.03
3	Phosphorous as P ₂ O ₅ wt%	0.13	0.28
4	Potash as K wt%	0.86	1.21
5	Total Organic Carbon wt%	17.05	14.23
6	Bulk Density in g/ml	0.37	0.26
7	Conductivity mS	4.88	7.56
8	Nickel as Ni wt%	0.005	0.0045
9	Zinc as Zn wt%	0.012	0.009
10	Cadmium as Cd wt%	0.001	0.0007
11	Copper as Cu wt%	0.011	0.007

Staff-in-charge,
Chemical Engr. Dept.

Head of the Department,
Chemical Engineering,
Department of Chemical Engineering,
National Institute of Technology Karnataka, Surathkal.

Fax : +91-824-2474033
Email : hodchemical@nitk.edu.in
Address : Srinivasnagar-575025, Mangaluru, India

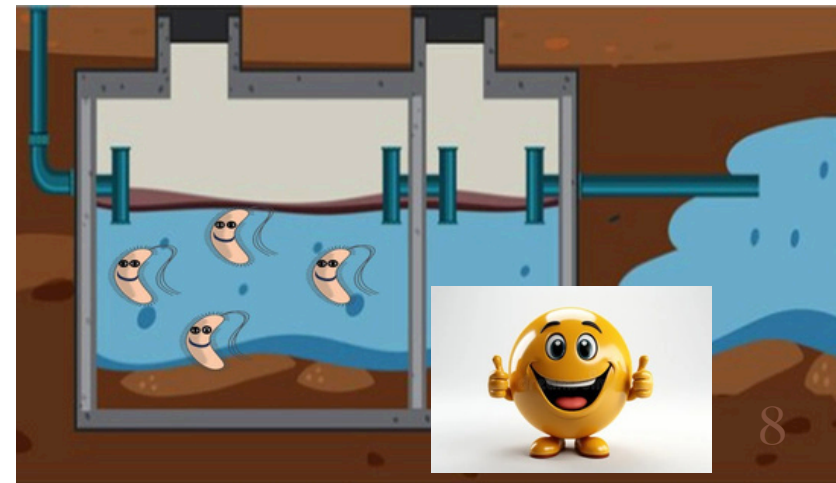
Ph: +91-824-2473042
HOD Direct: 0824-2474057
Website: www.nitk.ac.in

**Heavy metal reduction in kcdc
compost after treatment with
Agriboost**

Water Management Solutions

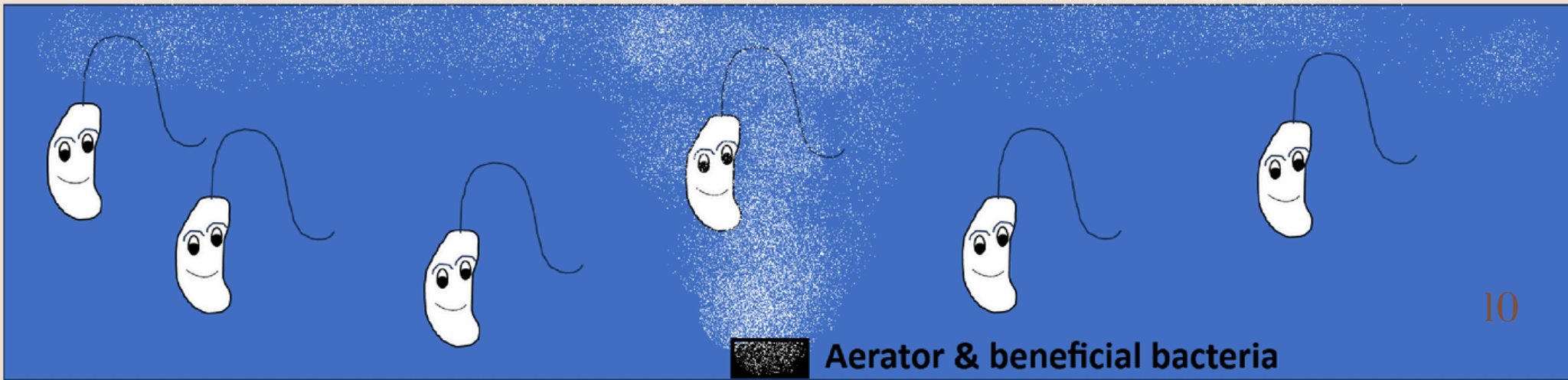
- Sasyani Bacteria and Filters for STPs and ETPs
- Real-time Monitoring for water quality improvement

Beneficial bacteria breaks down all the organic waste responsible in sludge formation and decreases the BOD. Organic filters reduces the organic loading there by decreases the COD and BOD and enhance the efficiency of the STP/ETP system.



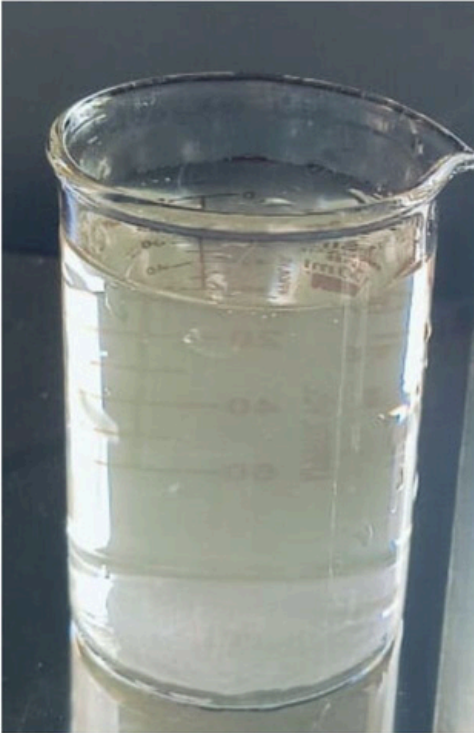


Aearation with Sasyani bacteria helps in degradation of the sewage



Sasyaani filters

The successful application of Sasyaani filters at the NITK-STEP water tank highlights their effectiveness in reducing turbidity, bad odour and improving water quality.



Before: The water was visibly turbid, muddy, and unsuitable for use with bad odour.

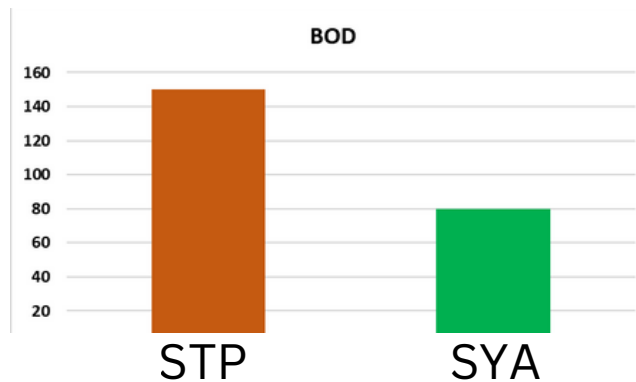
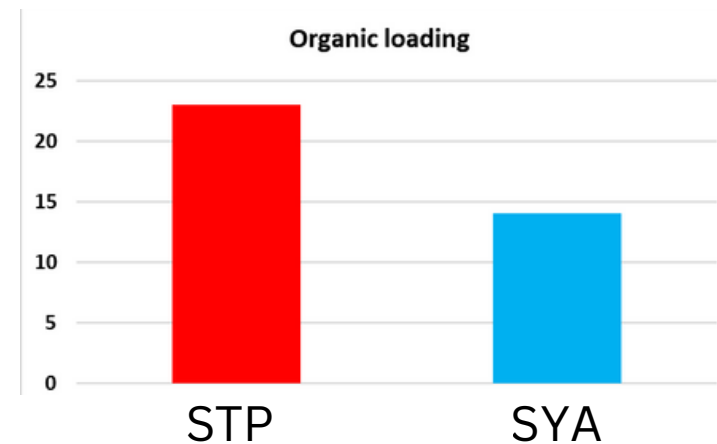
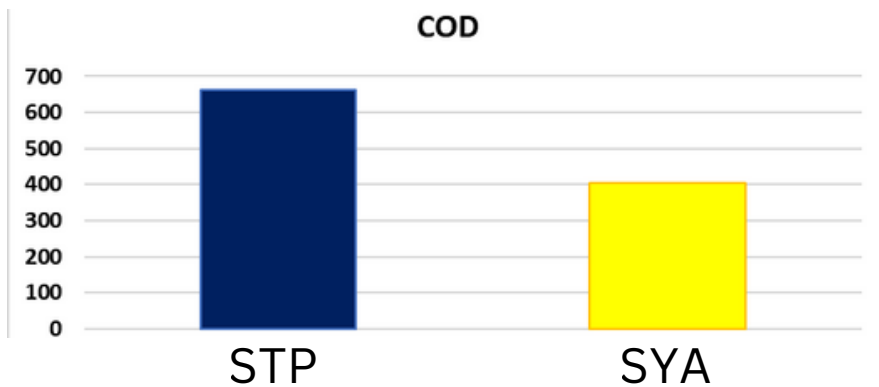


After: The water became significantly clearer and visually much more acceptable for use.

Implemented Sasyaani filters into ETP system of Souza & Picardo Enviro solutions, Mangalore where they aided in the breakdown of organic matter, reducing COD, BOD, and bad odors.



Implemented Sasyani filter media (SYA) for STP water at Raheja Waterfront, Kulai, Mangalore and about 40% reduction in COD & about 50% reduction in BOD observed.



Lake, Pond and Stormwater Channel Rejuvenation

Bacteria and filters were deployed in irrigation channels to consume excess nutrients, particularly nitrogen and phosphorus, thereby controlling algal blooms and improving water quality. In addition, we are implementing complementary measures like phytoremediation, desilting, solid waste trapping barriers, and water quality monitoring.



Rajakaluve rejuvenation – Phyto remediation, treatment with sasyani bacteria and treatment with filters having Sasyani bacteria.

Sasyaani SYBA drain treat

Implemented Sasyaani Bacteria - ETP system of Souza & Picardo Enviro solutions and STP, Pharma Company, Mangaluru where they aided in the breakdown of organic matter, reducing COD, BOD, and bad odors.



Before and after treatment of fish industry waste water and Pharmaceutical company STP system with Sasyaani bacteria

Air Quality Management

- Implemented advanced smell removal media for the dairy industry sludge, resulting in a significant reduction of odor by 85% at Mother Dairy, Yelahanka Bangalore.

Sl. No	Sampling details	H ₂ S Concentration in ppm	% reduction
1.	Before treatment	200	
2.	Immediately after mixing	24	88%
3.	After pressing	6	97%



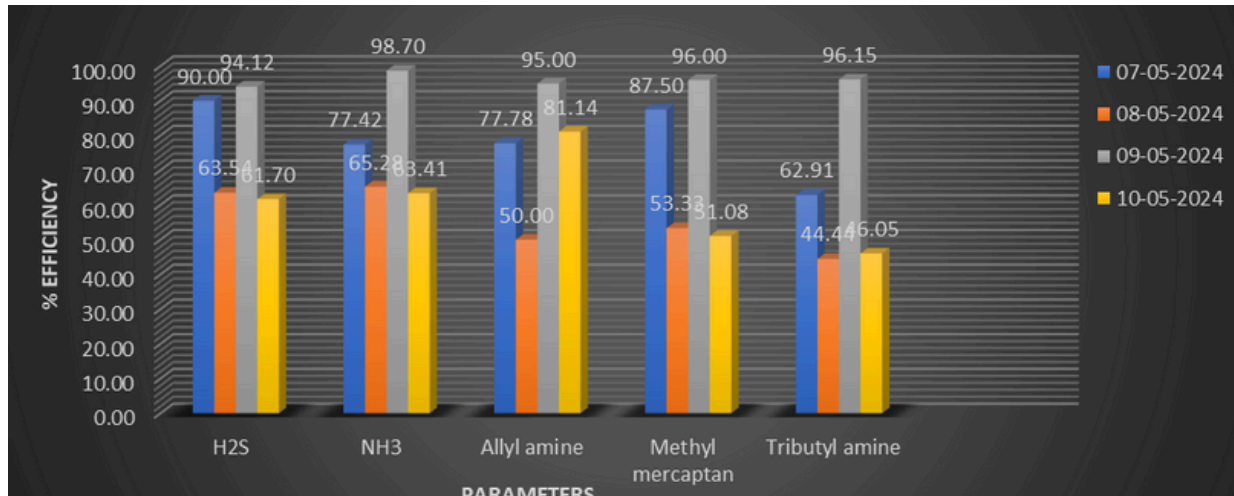
H2S meter showing H2S concentration immediately after mixing SYS media with sludge.



H2S meter showing H2S concentration after pressing the sludge having SYS media.

Implemented Sasyani biofilter media at Souza & Picardo Enviro Solutions Private Limited, Mangalore and above 60% efficiency was observed.

The overall performance efficiency:



Organic Composting: In organic compost preparation, beneficial bacteria accelerated decomposition and helped in breaking down contaminants, including heavy metals, making the compost safer for agricultural use.



The test results are as follows:-

Sr. No.	Parameters	Samples of garbage materials of	
		KCDC	Probiotics
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Application Guidelines

For Soil Enrichment: Apply 1 kg of compost per square meter and mix well with soil.

For Gardening and Landscaping: Spread evenly around plants and lightly till the soil.

- Water after application.
- Reapply every 3 months.
- Store in a cool, dry place.



Unique Features

- Boosts Nutrient Absorption
- Reduces Heavy Metals in Soil
- Fixes Nitrogen and Phosphorus
- Improves Soil Health
- Eco-Friendly & Chemical-Free

OEL/O/F/01/00

One Earth Enviro Labs LLP

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Mangaluru - 575 011. Ph: 0824-240 9011 Mob: +91 87625 39077
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ISO 9001:2015
ISO 45001:2018 Certified
MOEF & CC RECOGNISED

Report No: OTH/2024/398
Report Date: 08/11/2024

SAMPLE ANALYSIS REPORT

Name of the Industry
Address
Sample collected by
Sample Code & Name
Date of Sampling
Date of Sample Receipt

M/s Sasyaani Pvt Ltd.,
D.No-18, STEP-NITK, Srinivasnagar, Surathkal, Mangalore-575025
Given by the User
398- Solid Fertilizer + SYBA
04/11/2024
04/11/2024

Analysis Start Date
Analysis End Date

04/11/2024
08/11/2024

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15	E.coli	MPN/gm	<3	IS 5887 (Part 1)
16	Staphylococcus aureus	P/A /25gm	A	IS 5887 (Part 2)
17	Shigella	P/A /25gm	A	IS 5887 (Part 7)
18	Pseudomonas aeruginosa	P/A /25gm	A	IS 13428

ND- Not Detectable
P-Present
A-Absent
MPN <3 Shall be treated as Absent

** End of the Report **

For One Earth Enviro Labs LLP

Authorised Signatory
Radhalidhar S M, Quality Manager

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Sasyani Compost analysis report

- **Organic Multipurpose Cleaner** – Natural product based, safe, non-toxic, and eco-friendly. This versatile cleaner can replace multiple chemical-based products, making it a sustainable choice for homes, industries, and commercial spaces with multiple applications.



No artificial
colour



100% Natural



Cruelty free



No chemicals



Eco-friendly



Biodegradable

Sasyani Multipurpose Cleaner



Safe for all surfaces



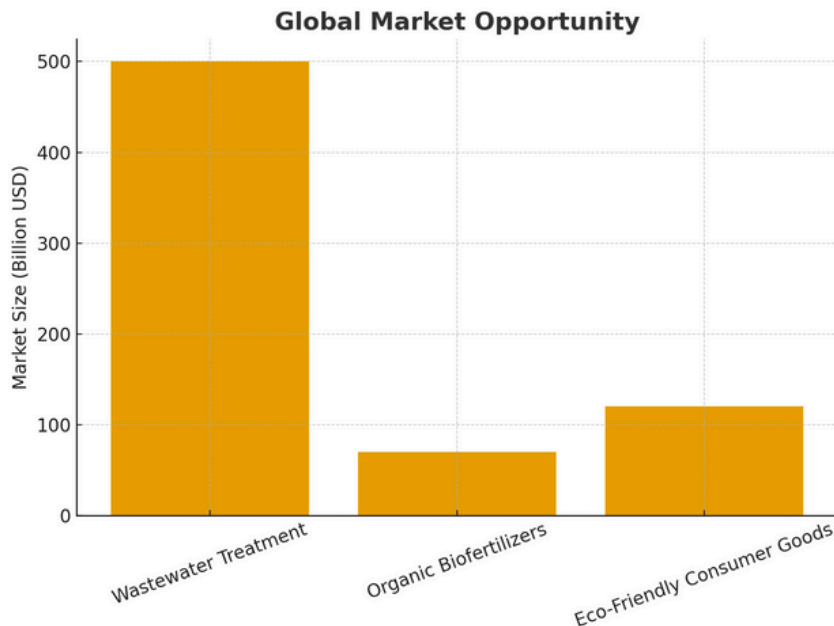
**Safe for
kids & pets**



#18, NITK-STEP, Srinivasnagar, Surathkal,
Mangaluru 575025

Market Opportunity

- Global Wastewater Treatment Market: \$500B+ and growing
 - Organic Agriculture & Biofertilizers: Rapid adoption in India & worldwide
 - Eco-friendly Consumer Goods: Rising demand for sustainable personal care & cleaning products
- Sasyaani is positioned at the intersection of these fast-growing markets



Impact & Sustainability

- Water Pollution Reduction – Filters & bacterial consortia
 - Soil Restoration – Organic compost & biofertilizers
 - Cleaner Air – Natural biofilters for industries
 - Community Empowerment – Awareness, training, and farmer engagement
-
- → Triple Impact: Environmental | Social | Economic



OUR MANAGEMENT TEAM

Sasyani Pvt. Ltd. is a team of young and energetic people with common aim of supporting farmers and Goushalas through various programs and products that enhance the health of soil, water, air and overall ecosystem.



Dr. Ranjani Chitrapur

Director

*Ph. D in industrial
biotechnology (NITK)
with 20 years
experience of
research and industry*



Mr. Sundar Prabhu

Director

*B.E (Electrical &
Electronics) with 21
years of experience in
supply chain & project
management.*



Dr. Vrandha Bhat

R&D incharge

*Ph. D in Chemistry
(VTU) with 9 years
of research
experience*



Mrs. Kusuma Bhat

Finance incharge

*B.Com graduate
with 20+ years of
finance
management
experience.*

Call to Action

- Join us in scaling eco-friendly, bio-based solutions for a sustainable planet.
- Seeking strategic partnerships & funding to expand across industries, agriculture, and consumer markets.
- Contact: www.sasyaani.com | 9880010992 | Mangalore

