



BIONICS ENVIRO TECH PVT LTD

NANOZYME BIOCULTURE

Innovative Biological Solutions for Wastewater Treatment



Reducing
COD



Reducing
BOD



Zero Sludge
Process



Sustainable
Water Management



Transforming Waste Water Restoring Tomorrow

AWARDS



www.bionicsenviro.com



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BIONICS
ENVIROTECH

About **BIONICS** ENVIRO TECH

Bionics Enviro Tech Pvt. Ltd. is a Scientific Manufacturer of Nanozyme Bioculture for industrial and municipal wastewater treatment. Built on continuous laboratory research and scientific innovation, we innovate and manufacture microbial biocultures for biological treatment processes in ETPs and STPs. Every Nanozyme Bioculture is innovated, tested, and validated to support the degradation of organic pollutants, improve biological activity, reduce to zero sludge generation, and maintain stable wastewater treatment performance. From laboratory innovation to industrial application, our focus is on manufacturing scientifically validated Nanozyme Biocultures that contribute to reliable treatment performance, lower operating costs, and sustainable environmental practices.



APPLICATIONS



INDUSTRIAL ETPS



STPS



CETPS



ANAEROBIC
DIGESTERS



COMPOSTING
PLANTS

HIGHLIGHTS



INNOVATIVE BIOTECHNOLOGY

Cutting-edge microbial formulations for efficient wastewater treatment.



ADVANCED RESEARCH

Backed by continuous R&D to deliver superior and reliable solutions.



ECO-FRIENDLY SOLUTIONS

Safe for the environment and promotes sustainable water management.



ENERGY SAVING TECHNOLOGY

Enhances treatment efficiency while reducing energy consumption and costs.

Transforming Waste.
Restoring Tomorrow.



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BIONICS
ENVIROTECH



VISION

To be globally recognized for delivering innovative and energy-efficient biological wastewater treatment systems.



MISSION

To provide environmentally responsible, affordable, and effective biological treatment technologies worldwide.

VALUES



INNOVATION

We embrace new ideas and technologies to deliver smarter and more effective solutions.



SUSTAINABILITY

We are committed to protecting the environment and promoting sustainable water management.



CUSTOMER SUCCESS

We build lasting relationships by delivering value and ensuring customer satisfaction.



CONTINUOUS RESEARCH

We invest in ongoing research to advance our products and stay ahead of industry needs.



QUALITY

We maintain the highest standards in our products and processes to ensure reliable performance.



INTEGRITY

We conduct our business with honesty, transparency, and strong ethical values.

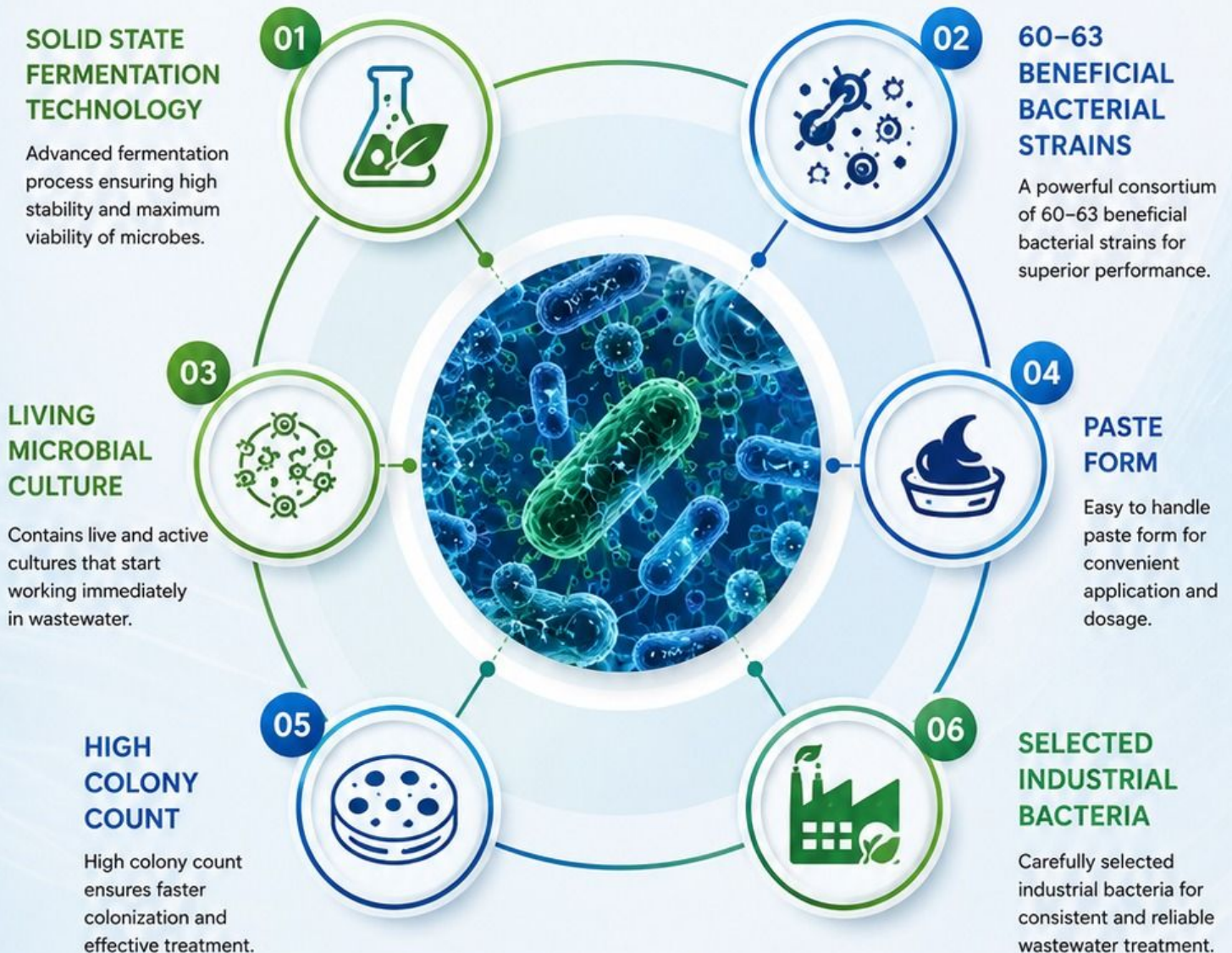
Transforming Waste.
Restoring Tomorrow.



BIONICS
ENVIROTECH

WHY NANOZYME?

Nanozyme Features



Transforming Waste.
Restoring Tomorrow.



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BIONICS
ENVIROTECH

PERFORMANCE

Proven Results. Cleaner Water. Greener Tomorrow.

High Efficiency. Sustainable Impact.



COD

95–98% ↑

Significant reduction for cleaner discharge and compliance.



BOD

98–100% ↑

Maximum removal for improved treatment efficiency.



COLOUR

90–100% ↑

Effective decolorization for clear and clean water.



ODOUR

100% ↑

Complete odour elimination for a better environment.



TSS

92–95% ↑

High reduction in total suspended solids for superior clarity.



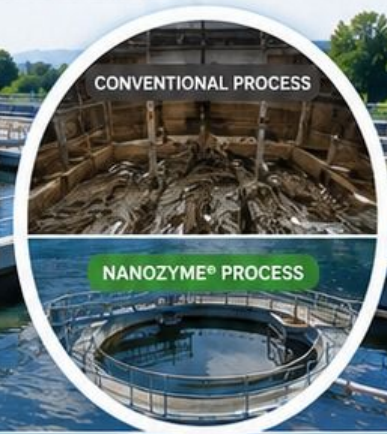
SLUDGE

ZERO SLUDGE

Zero sludge process for reduced disposal costs and maintenance.



Better Performance.
Lower Costs.
Sustainable Future.



Better Treatment. Better Tomorrow.



HIGH REMOVAL
EFFICIENCY



LOWER OPERATING
COSTS



ECO-FRIENDLY &
SUSTAINABLE



IMPROVED PLANT
PERFORMANCE



CLEANER WATER
GREENER PLANET



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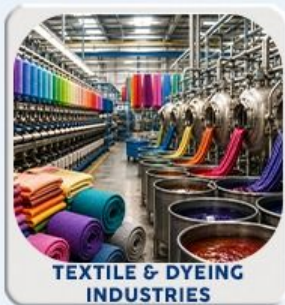




BIONICS
ENVIROTECH

INDUSTRIES WE **SERVE**

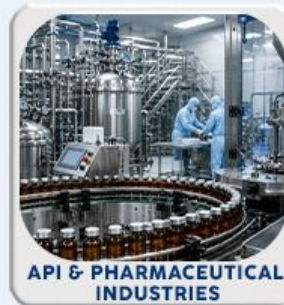
Biological Solutions for Every Industry. Sustainable Results for a Better Tomorrow.



**TEXTILE & DYEING
INDUSTRIES**



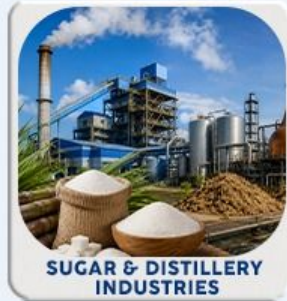
CHEMICAL INDUSTRIES



**API & PHARMACEUTICAL
INDUSTRIES**



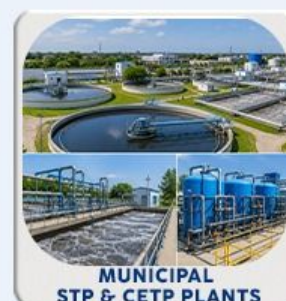
**PULP & PAPER
INDUSTRIES**



**SUGAR & DISTILLERY
INDUSTRIES**



**FOOD & DAIRY
INDUSTRIES**



**MUNICIPAL
STP & CETP PLANTS**



**WIDE INDUSTRY
APPLICATION**



**SUSTAINABLE &
ECO-FRIENDLY**



**COST-EFFECTIVE
SOLUTIONS**



**RELIABLE &
PROVEN RESULTS**



**FOR A CLEANER,
GREENER PLANET**



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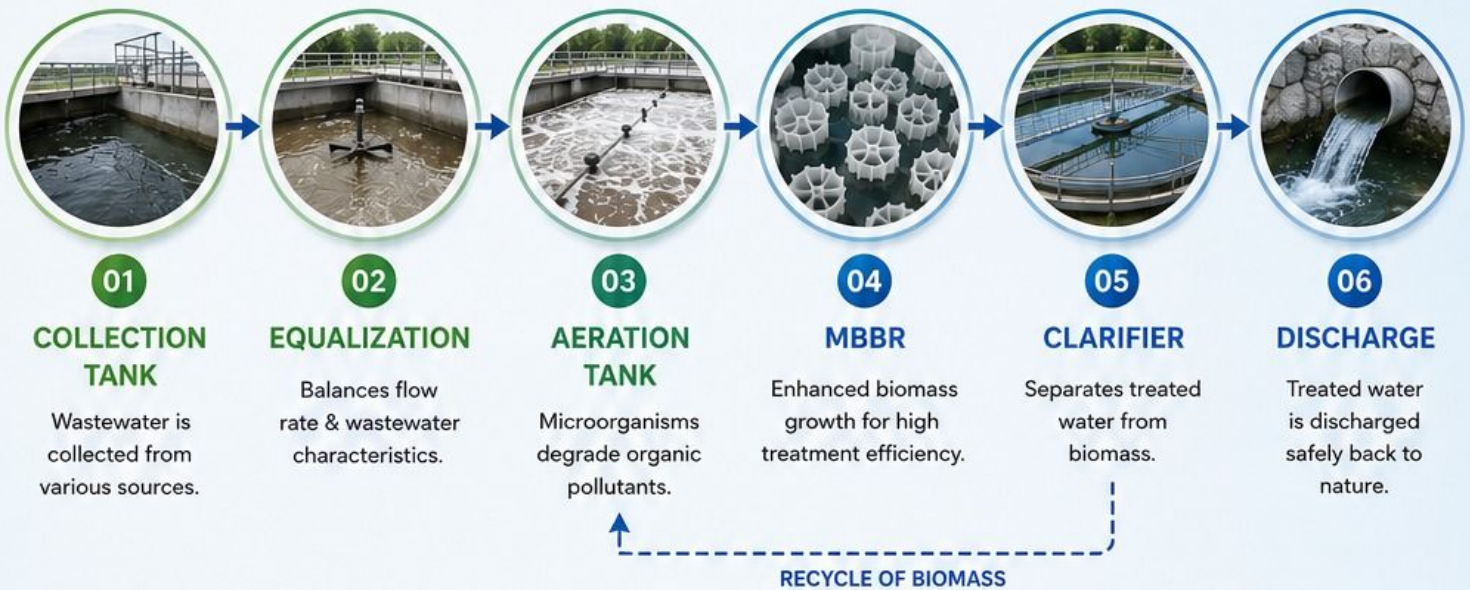


BIONICS
ENVIROTECH

APPLICATIONS

Advanced Biological Solutions for Every Stage of
Wastewater Treatment

From Collection to Clean Water. Powered by Nanozyme® Bioculture



APPLICATIONS:



ETP

Effluent Treatment Plants for industries to treat wastewater efficiently.



STP

Sewage Treatment Plants for municipal wastewater management.



CETP

Common Effluent Treatment Plants for multiple industries.



AD

Anaerobic Digesters for biogas generation & sludge stabilization.



COMPOSTING

Composting Plants for efficient organic waste conversion.



HIGH
TREATMENT
EFFICIENCY



LOWER
OPERATING
COSTS



REDUCES
SLUDGE &
ODOUR



SUSTAINABLE
& ECO-FRIENDLY
SOLUTION



SAFE FOR
ENVIRONMENT
& COMPLIANCE

Transforming Waste.
Restoring Tomorrow.



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BIONICS
ENVIROTECH

Innovative Biological Solutions for a Sustainable Future

PRODUCT RANGE

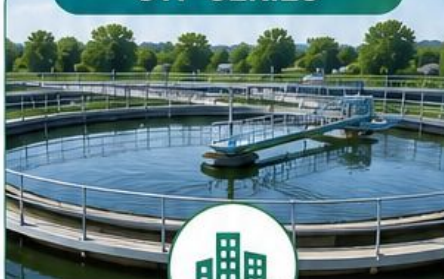
Advanced Bioculture Solutions for Every Need

ETP SERIES



 Product Code	BIONICS-NZ-ETP
 Application	Industrial ETPs
 COD Range	10,000 – 100,000 mg/L
 Dosage	1.0 – 2.0 kg/MLD

STP SERIES



 Product Code	BIONICS-NZ-STP
 Application	Sewage Treatment Plants
 COD Range	250 – 5,000 mg/L
 Dosage	0.5 – 1.5 kg/MLD

ANAEROBIC SERIES



 Product Code	BIONICS-NZ-AN
 Application	Anaerobic Digesters / High Strength Waste
 COD Range	20,000 – 200,000 mg/L
 Dosage	1.0 – 3.0 kg/MLD

BIOGAS SERIES



 Product Code	BIONICS-NZ-BG
 Application	Biogas Plants / Slurry Treatment
 COD Range	15,000 – 100,000 mg/L
 Dosage	1.0 – 2.5 kg/MLD

COMPOSTING SERIES



 Product Code	BIONICS-NZ-CP
 Application	Composting Plants / Organic Waste
 COD Range	NA (Organic Waste Treatment)
 Dosage	0.5 – 1.0 kg/MT of Waste



HIGH TREATMENT
EFFICIENCY



REDUCES COD,
BOD & TSS



LOWER SLUDGE
GENERATION



ECO-FRIENDLY &
SUSTAINABLE



COST-EFFECTIVE
SOLUTIONS

Transforming Waste.
Restoring Tomorrow.



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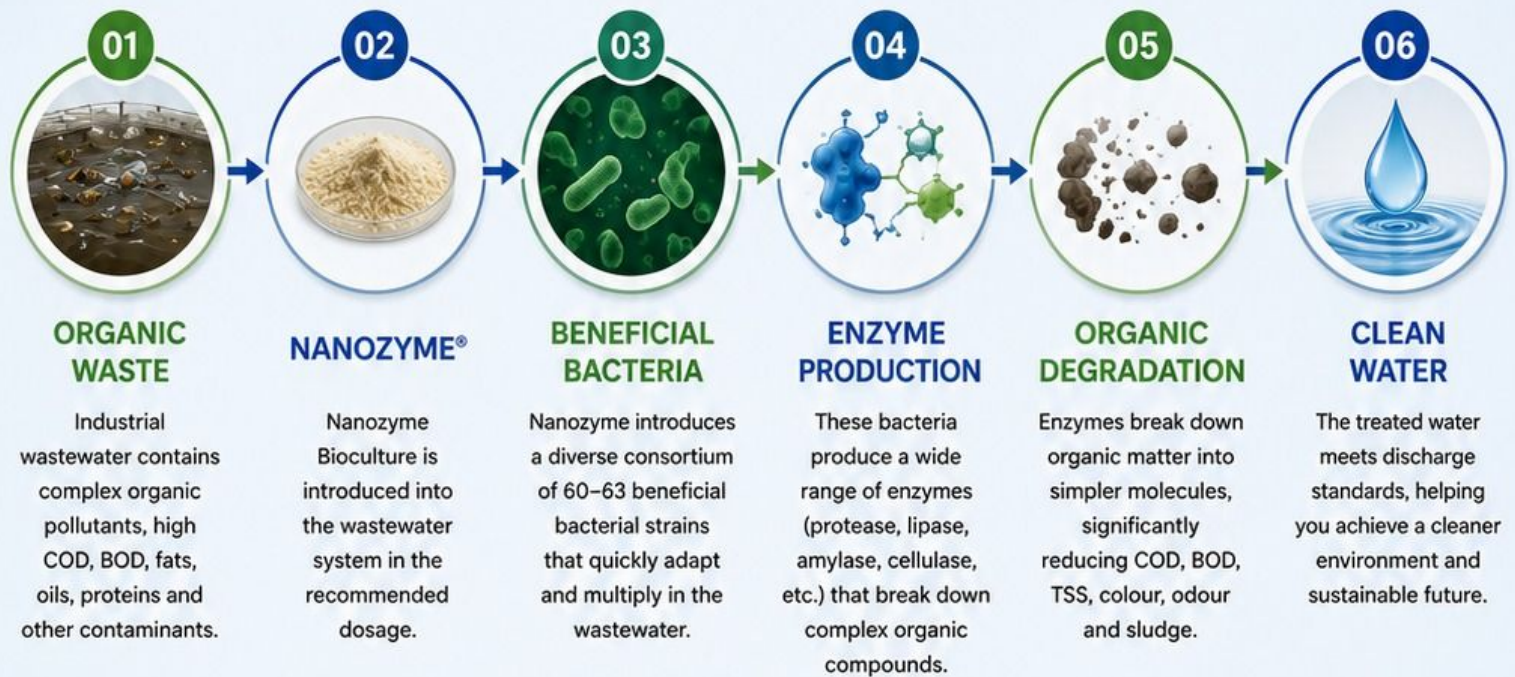
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HOW NANOZYME WORKS

• Nature-Inspired. Science-Driven. Proven Results. •

From Waste to Clean Water – The Nanozyme® Way



Nanozyme works with nature to **restore balance**,
improve treatment efficiency and **protect our planet**.



**BIOLOGICAL
SOLUTION**

Uses natural beneficial bacteria and enzymes



**HIGH
EFFICIENCY**

Reduces COD, BOD, TSS, colour & odour significantly



**ZERO SLUDGE
PROCESS**

Minimizes sludge generation and disposal cost



**ECO-FRIENDLY &
SUSTAINABLE**

Non-toxic, safe for the environment and humans



**COST
EFFECTIVE**

Lowers operating cost and improves plant performance

**Transforming Waste.
Restoring Tomorrow.**



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WHY BIOLOGICAL TECHNOLOGY?

Smarter Technology. Cleaner Results. Sustainable Future.

CONVENTIONAL vs NANOZYME

CONVENTIONAL		NANOZYME® BIOCULTURE TECHNOLOGY	
	HIGH SLUDGE	 SLUDGE GENERATION	ZERO SLUDGE 
	MORE CHEMICALS	 CHEMICAL USAGE	NO CHEMICALS 
	HIGH ELECTRICITY	 ENERGY CONSUMPTION	LOWER ENERGY 
	LONG RETENTION	 TREATMENT TIME	FASTER TREATMENT 
	HIGH COST	 OPERATING COST	COST EFFECTIVE 

GO GREEN.
GO BIOLOGICAL.



Advanced Biological Solutions
for a Cleaner, Greener Tomorrow.



NATURAL & SAFE
SOLUTIONS



HIGH EFFICIENCY
PERFORMANCE



ECO-FRIENDLY &
SUSTAINABLE



LOWER COST,
HIGHER SAVINGS



RELIABLE & PROVEN
TECHNOLOGY



BIONICS
ENVIROTECH

MERITS



**98% COD
REDUCTION**



Significantly reduces Chemical Oxygen Demand for efficient and compliant treatment.



**98% BOD
REDUCTION**



Ensures high Biological Oxygen Demand removal for better plant performance.



**ZERO
SLUDGE**



Produces no excess sludge, reducing handling, disposal and associated costs.



**LESS
CHEMICALS**



Minimizes the need for chemicals, making the process safer, greener and cost-effective.



**LESS
ELECTRICITY**



Optimized process reduces energy consumption and lowers operating costs.



**ODOUR
REMOVAL**



Eliminates foul odours and improves the working environment around the plant.



**COLOUR
REDUCTION**



Effectively removes colour from wastewater for a cleaner and clearer output.



**EASY
OPERATION**



User-friendly and hassle-free operation for smooth and efficient plant management.

NANOZYME[®] PREPARATION METHOD

Dosage: 50 kgs/ 100 KLD (For one month's)

(It will vary depends on COD, BOD, TDS & Nutrient status of the Effluent).

PREPARATION METHOD:



APPLICATION DOSAGE DETAILS OF INCUBATED NANOZYME BACTERIAL CULTURES

APPLICATION	DOSAGE	MODE OF APPLICATION	FREQUENCY
ETP	50 kgs/ 100 KLD	Directly into Aeration Tank	Monthly once
STP	50 kgs/ 100 KLD	Directly into Aeration Tank	Monthly once
CETP	50 kgs/ 100 KLD	Directly into Aeration Tank	Monthly once
AD (Anaerobic Digesters)	25 kgs/ 100 KLD	Directly into Digesters	Monthly once
Composting	10 kgs/ 10 Ton	Mix with composting material	Monthly once

Innovative Biological Solutions
for Wastewater Treatment



Eco-Friendly



Sustainable



Effective



Energy Saving



Cost Effective

RESEARCH & DEVELOPMENT

DR. M. PARAMESWARI Ph.D Agri.,

Research • Innovation • Laboratory • Technical Expertise

Dr. M. Parameswari is an Environmental Scientist with expertise in Industrial Wastewater Treatment, Bioremediation, Microbial Biotechnology, Waste Management, Composting, and Environmental Sustainability.

Her research focuses on developing advanced microbial technologies for efficient industrial and municipal wastewater treatment.



Recognized by **The Times of India** (May 28, 2009) for her pioneering work in recycling industrial effluents using microbial technologies, she has held key R&D positions in environmental industries and consultancy organizations.



RESEARCH HIGHLIGHTS

- ✓ Ph.D. in Environmental Science – Tamil Nadu Agricultural University (TNAU)
- ✓ Specialized in Industrial Effluent Treatment & Waste Management
- ✓ Developed innovative Microbial Enzymes & Biocultures
- ✓ Expertise in ETP, STP, CETP & Anaerobic Digestion
- ✓ Environmental Audit & Pollution Control Consultancy
- ✓ Sustainable Biological Treatment Process Development



RESEARCH PUBLICATIONS

- 25+ International Research Papers
- 9+ National Research Papers
- 10+ National & International Conference Presentations
- Published in reputed journals including:
 - Elixir International Journal
 - Journal of Environmental Science & Sustainability (JESS)
 - International Journal of Current Trends in Research
 - International Research Journal of Biological Sciences
 - Rasayan Journal of Chemistry
 - Research in Environment & Life Sciences
 - Water R&D
 - IJANS (International Journal of Applied & Natural Sciences)



MAJOR RESEARCH AREAS

- Industrial Wastewater Treatment
- Textile & Dye Effluent Bioremediation
- Microbial Enzyme Technology
- Bioculture Development
- Vermicomposting & Organic Waste Recycling
- Soil Fertility & Nutrient Management
- Heavy Metal Remediation
- Phytoremediation using Sunflower & Maize
- Environmental Biotechnology
- Sustainable Waste Management

ACHIEVEMENTS



Featured in **The Times of India** (2009) for innovative wastewater recycling research



Extensive publications in peer-reviewed national and international journals



Research presentations at leading scientific conferences



Development of sustainable biological treatment technologies for industrial wastewater



Over two decades of experience in Environmental Research & Industrial Biotechnology

“Transforming Research into Sustainable Environmental Solutions.”

AWARDS & RECOGNITIONS



Indian Council for
Agricultural Research Award

2001



University Grant Commission
National Eligibility Test Award

June 2003 & Dec 2003



Agricultural Scientist
Recruitment Board
National Eligibility Test Award



Times of India

May 28, 2009



BIONICS
ENVIRO TECH

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YouTube

<https://www.youtube.com/@bioculturebybionics>

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