



**BIONICS**  
ENVIROTECH

# BIONICS ENVIRO TECH™

An ISO 9001 : 2015 CERTIFIED COMPANY

SCIENTIFIC INNOVATIVE MANUFACTURER OF NANOZYME MICROBIAL CULTURE FOR  
EFFLUENT TREATMENT PLANT (ETP), SEWAGE TREATMENT PLANT (STP),  
COMMON EFFLUENT TREATMENT PLANT (CETP), COMMON SEWAGE TREATMENT PLANT (CSTP),  
COD & BOD REDUCTION, ZERO SLUDGE PROCESS BY NANOZYME MICROBIAL CULTURE™

TEXTILE, PHARMA, DYE, PULP & PAPER, SUGAR, DAIRY, CHEMICAL INDUSTRIES



98 %  
COD & BOD  
REDUCTION

ZERO  
SLUDGE

COLOUR  
& ODOR  
REMOVAL

DISSOLVED  
OXYGEN  
(DO)(4 to 11)

MLSS  
& TSS  
REDUCTION



Revolution In Biological  
*Waste Water*  
Treatment

## HEAD OFFICE

📍 2/185, Ramnagar,  
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Erode - 638052. Tamilnadu.

## CORPORATE OFFICE

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## REGIONAL OFFICE

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Jaunpur Sadar, Jaunpur ,  
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TAMILNADU ANDHRA PRADESH KARNATAKA MAHARASTRA GUJARAT DELHI  
MADHYA PRADESH UTTAR PRADESH PUNJAB & ALL OTHER STATES



Indian Council for  
Agricultural Research  
Award in 2001



University Grant Commission  
National Eligibility Test Award  
in June, 2003 & December, 2003.



Agricultural Scientist  
Recruitment Board  
National Eligibility Test Award



THE TIMES OF INDIA  
Times of India  
May 28, 2009.

## ABOUT BIONICS ENVIRO TECH

BIONICS ENVIRO TECH is an industry world leader in the field of biological waste water treatment by manufacturing Nanozyme Bioculture and implementing in all industries. With presence in all states, BIONICS ENVIRO TECH with strong Research & Development and a passion for innovation is offering purely Nanozyme technologies with wide range of solutions mainly focused on COD, BOD Reduction, Zero Sludge Process, Zero Pollutant load in directed at addressing waste water challenges in all industries Effluent Treatment Plants (ETP), Sewage Treatment Plants (STP), Common Effluent Treatment Plants (CETP) and Anaerobic Digester (AD) of any scale, any sector across the world with track record. BIONICS ENVIRO TECH managed by a core team of well qualified scientist with two decades of university and industrial research experienced directors in providing wide range of research solutions for biological wastewater treatment problems headed by our Managing Director Mr.K.SASIKUMAR, MCA, and Executive Director Dr.M.PARAMESWARI SASIKUMAR PhD.Agri.,

## ABOUT EXECUTIVE DIRECTOR

Dr. M. PARAMESWARI SASIKUMAR, Executive Director Ph.D., in Agricultural Science with specialization in Industrial Wastewater treatment heads the research and development of the company. Dr.M.Parameswari has more than 20 years of experience in university and industrial research, monitoring of industrial effluent treatment plants. She has published Doctoral research in dye industries effluent in to different Research Journals International 20 Research Articles and National 16 Research Articles and also published research paper in International and National conferences and seminars 35 papers. Under our executive director research guidance, BIONICS ENVIRO TECH has innovated wide range of NANOZYME bio-culture and also implementing into various all industrial sectors. Based on extensive R&D in our BIONICS, innovated NANOZYME bioculture and implemented with focal point of Zero Sludge, COD, BOD, TDS, TSS, all heavy metals reduction with low cost treatment of biological high performance systems.

## AWARDS & MEDALS

Executive Director Dr.ParameswariSasikumar received the following awards

 <p>Indian Council for Agricultural Research Award in 2001</p>	 <p>University Grant Commission National Eligibility Test Award in June, 2003 &amp; December, 2003.</p>	 <p>Agricultural Scientist Recruitment Board National Eligibility Test Award</p>	 <p>Times of India May 28, 2009.</p>
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## NANOZYME

“NANOZYME” which are effective microbes (EM) contain multiple stains of aerobic, facultative aerobes and anaerobic bacteria, which are selected for their compatible, symbiotic metabolic pathways based on different industrial effluent characteristics. NANOZYME products are manufactured from a unique solid fermentation (SSF) process of selected cultures of beneficial bacteria for different waste water and industries.

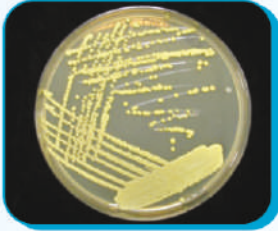
### NANOZYME DESCRIPTION

Available form	Organic semi-solid form
Number of Bacterial cultures	60 different Bacterial cultures
Stage of Bacterial cultures	Living bacteria
Number of Bacterial colonies	$65 \times 10^9$ CFU/ml
Shelf life	Min one year



### NANOZYME ON EFFLUENT TREATMENT PLANTS

Parameters	Percentage of Reduction
Sludge Degradation	Zero Sludge
Chemical Oxygen Demand (COD)	95 - 98%
Biological Oxygen Demand (Bod)	98- 100 %
Colour	90 - 100%
Odor	100%
Removal of suspended & floatable Organic debris	100%
Reduces Total Suspended Solids (TSS)	92-95%
Reduces Total Dissolved Solids (TDS)	Depends On Characteristics of Wastewater
Increases Dissolved Oxygen (DO)	Min 3 – Max 8



## MERITS OF USING NANOZYME

- Sludge less Process(Zero Sludge)
- Avoid Chemical Uses
- Low Cost Treatment Technology
- Reduction Of Aeration Time & Blowers
- Reduction Of >50% Of Electricity Usage
- Degradation Of Organic Pollutants & Heavy Metals
- Digest the Suspended And Flotable Organic Debris

## NANOZYME APPLICATION

- Aeration Tank
- Anaerobic Digester - UASBR
- MBR (Membrane Bio Reactor)
- Collection & Equalization Tank
- Common Effluent Treatment Plants(CETP)
- Common Sewage Treatment Plant (CSTP),
- Effluent Treatment Plants(ETP)
- Sewage Treatment Plants(STP)

## NANOZYME RANGE OF PRODUCTS

### AERATION TANK EFFLUENT TREATMENT PLANT (ETP/CETP)

NANOZYME -BET-ETP-7001	<500 COD
NANOZYME -BET-ETP-7002	500-2000 COD
NANOZYME -BET-ETP-7003	>2000 COD



### ANAEROBIC CULTURE

- NANOZYME BET-ANA-9001
- NANOZYME BET-ANA-9002
- NANOZYME BET-ANA-9003



### SEWAGE TREATMENT PLANTS (STP/CSTP)

- NANOZYME-BET-STP-9011
- NANOZYME-BET-STP-9012
- NANOZYME-BET-STP-9013



## INDUSTRIES WE SERVE

- TEXTILE & DYE INDUSTRIES
- PHARMA & API INDUSTRIES
- PULP AND PAPER INDUSTRIES & KRAFT PAPER
- LEATHER & TANNERIES
- DAIRY & FOOD PROCESSING INDUSTRIES
- SUGAR & DISTILLERIES
- CHEMICAL & PETRO CHEMICAL INDUSTRIES
- OIL & GAS
- FERTILIZERS & CEMENT INDUSTRIES
- COMMON SEWAGE & EFFLUENT TREATMENT PLANT

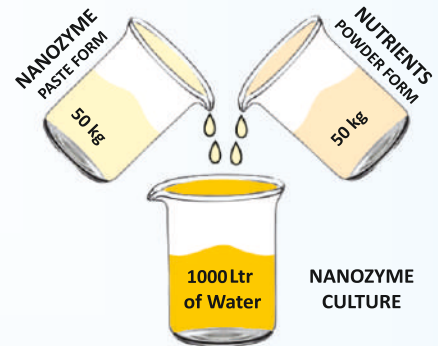
### Recommended Dosage For 100 KLD / 1 Months

- NANOZYME - BET-ETP-7003 = 50 Kgs. /100 KLD /MONTH
- NUTRITION-BET- NUTRI 9003 = 50 Kgs./100 KLD /MONTH

### NANOZYME APPLICATION DOSAGE (50 kg / 100 KLD)

NANOZYME	Day of Dosage	Nanozyme Application Dosage (1000 liters)
1 <sup>st</sup> Dosage	1 <sup>st</sup> Day	100 liters
2 <sup>nd</sup> Dosage	3 <sup>rd</sup> Day	100 liters
3 <sup>rd</sup> Dosage	5 <sup>th</sup> Day	50 liters
4 <sup>th</sup> Dosage	7 <sup>th</sup> Day	50 liters
5 <sup>th</sup> Dosage	Alternated days	50 liters

### NANOZYME PREPARATION METHOD FOR 100 KLD = 50 kg/ 1 Months



MIXING WITH WATER =  
NANOZYME CULTURE WILL BE READY

### Municipal Solid Waste Composting

- NANOZYME BET-COMP-7101
- NANOZYME BET-COMP-7102
- NANOZYME BET-COMP-7103



## OUR PRESTIGIOUS CLIENTS



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Treatment

**Dr.M.Parameswari Sasikumar** Ph.D Agri., Env.,  
Executive Director

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**K. Sasikumar** M.C.A.,  
Managing Director

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### REGIONAL OFFICE

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