BIONICS ENVIRO TECH

Industries Application

- Dyeing and Textiles Processing Industries
- Bleaching and Printing Industries
- Tannery Industries
- Chemical Industries
- Pharmaceutical Industries
- Sugar and Distilleries
- Food processing & Sago Industries
- Petrochemical Industries
- Milk, Dairy and Cheese processing units
- Paper and Pulp Industries
- Breweries, Wine and Alcohol plants
- Fruit processing Industries
- Aqua culture Industries
- Common Effluent Treatment Plants
- Effluent Treatment Plants
- Sewage Treatment Plants

WATER AND WASTE WATER TREATMENT CHEMICALS

- Range of waste water treatment Chemicals
- Range of Cooling water Treatment Chemicals
- Range of Broad Spectrum Biocides
- Range of Poly electrolytes
- Range of Reverse Osmosis Chemicals

WATER AND WASTE WATER TREATMENT PLANTS

- Water Treatment Plants
- Sewage Treatment Plants
- Effluent Treatment Plants
- Recycling Plants
- Packaged Drinking water Plants
- Demineralisation plants
- Softners plants

BIONICS

BIONICS ENVIRO TECH

(ISO 9001:2008 Certified Company)

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REVOLUTION IN BIOLOGICAL WASTE WATER TREATMENT

www.bionicsenviro.com

Nanozyme - Microbial Bioculture

Laboratory Analysis

Water & Waste Water Treatment Chemicals

Registered & Head Office:
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Chennai | Tiruppur | Hosur | Pondichery | Bengaluru

BIONICS ENVIRO TECH

About BIONICS ENVIRO TECH

- **BIONICS ENVIRO TECH**, Tamilnadu, India was established in year 2014, only authorized scientific manufacturer of microbial bioculture for biological waste water treatment.The company is headquartered in Namakkal in the State of Tamil Nadu.
- The BIONICS ENVIRO TECH is managed by a core team of well qualified scientists with several years of technical / administrative experience, headed by Mr .K. SASIKUMAR, MCA, Managing Director and Dr.M.PARAMESWARI SASIKUMAR, (Ph.D.,Agri.) Technical Director has nearly 19 years experience in research, monitoring of industrial effluent treatment plants.
- In BIONICS ENVIRO TECH, we step new paths and break new foundation with technological excellence. Our products are formulated with 13 years of intensive Research and Development which suit specific needs of customers. Products are manufactured with stringent laboratory standards incorporating modern equipment's using international formulas - to achieve ISO- 9001 standards and NABL accreditation for laboratories.

Our Values

- The BIONICS ENVIRO TECH scientist's team carry out intensive Research and Development work biological method of sludge reduction, also technically working towards achieving the best possible ways of "Zero Liquid Discharge" through conventional biological treatment methods for all industries effluents
- To be globally recognized as the first innovative technology in delivering energy efficient biological treatment system for waste water treatment.
- To transfer the Innovative Research Technologies to the industrial waste water treatment Plants and to Save Energy, the most useful and cost effective biological waste water treatment systems.
- We demand honesty, integrity, ethical and professional behavior in all that we do.

NANOZYME

- We introduces one of its innovative scientifically proven product in biotechnology designed to meet the requirements of specific waste water treatment problems namely "NANO-ZYME" which are Effective Microbes (EM) contain multiple strains of aerobic and facultative anaerobic microbes, which are selected for their compatible, symbiotic metabolic pathways based on different industrial effluent characteristics. Based on extensive R&D, Our bacteria and enzyme products are developed using bacterial strains which are very efficient for improving the purification process of industrial, municipal & residential wastewater.
- NANOZYME is available in organic Semi-solid form, which can be directly applied in biological treatment. NANOZYME is a consortium of beneficial microbes which are natural and safe. They have the ability to degrade number of pollutants. Each gram of product contains up to 52 different strains of bacteria. All the bacteria present in NANOZYME are highly stable.

HIGH - RANGE OF PRODUCTS

NANOZYME - BET - ETP - 7001 NANOZYME - BET - ETP - 7002 NANOZYME - BET - ETP - 7003	NANOZYME - BET - STP - 7011 NANOZYME - BET - STP - 7012 NANOZYME - BET - STP - 7013
NANOZYME - BET - ANA - 9001 NANOZYME - BET - ANA - 9002 NANOZYME - BET - ANA - 9003	NANOZYME - BET - NUTRI - 9101 NANOZYME - BET - NUTRI - 9102 NANOZYME - BET - NUTRI - 9103
NANOZYME - BET - COMP - 7101 NANOZYME - BET - COMP - 7102 NANOZYME - BET - COMP - 7101	NANOZYME - BET - BIOG - 7501 NANOZYME - BET - BIOG - 7502 NANOZYME - BET - BIOG - 7503

BIONICS ENVIRO TECH

Role of NANOZYME in Waste Water Treatment Plants

- Sludge Reduction
- Colour Odour removal
- Reduces COD (Chemical Oxygen Demand)
- Reduces BOD (Biological Oxygen Demand)
- Reduces TSS (Total Suspended Solids)
- Reduces TDS (Total Dissolved Solids)
- Suspended and floatable organic debris
- Completely digest the organics and inorganics
- Reduces the Commissioning time.

Salient Features Of NANOZYME

- Low cost treatment
- Reduction in chemical uses.
- Reduces the energy consumption
- Reduce the aeration time and number of blowers.
- Zero sludge.
- Reduction in Color and odour of the effluent.
- Low quantities of use, safe and easy to handle & store.
- Improved Anaerobic digester efficiency.
- Non-corrosive, non-pathogenic.
- Cultures grow in either the aerobic and anaerobic conditions
- No design or process modifications required.
- Results meet criteria for new Pollution Control norms.
- Biological treatment is a real Pollutant Reduction treatment
- Reduction in more than 95% reduction in BOD .
- 90% reduction in COD load.
- Reduction of TDS, Inorganic, organics, turbidity and heavy metals.
- Increases the Dissolved Oxygen.
- No messy cow dung handling.
- Improved MLVSS/MLSS ratio and increases the plant efficiency.

Areas in which the NANOZYME can be Used

- Effluent treatment plants
- Sewage treatment plants
- Up-Flow Anaerobic Sludge Blankets Reactor
- Anaerobic treatment plants
- Activated sludge treatment plants
- MBR (Membrane Bio Reactor)
- Fixed Film Anaerobic Reactor
- Hybrid Anaerobic reactors Composting Of Solid Waste.
- Septic Tanks & Sludge Pits
- Collection Tank & Clarifiers
- Anaerobic Digester for solid waste
- Results meet criteria for new Pollution Control norms.
- No design or process modifications required.
- Biogas Production

TECHNICAL SPECIFICATION

- Dosage : 2 -5 ppm (It will vary depends on Sludge, COD, BOD, TDS & Nutrient status of the Effluent).
- Effective temperature : Min. 30, - 60 °C
  Effective pH range : Min. 3 - 12
  Shelf life : Min one year