



DIVA ENVITEC PVT. LTD.

Wastewater Treatment

**REVIVING  
WATER  
SUSTAINABLY**



## About The Company

The company was set up by a group of professionals with rich and varied experience in design, development and implementation of viable solutions to ensure filtration requirements, who came together to form “Diva Envitec™” in 1992 to develop technology driven separation and filtration systems for the process industry. It was incorporated into a Pvt. Ltd company in year 2010.



Helping you lower  
your carbon and  
water footprint



Doing the root  
cause analysis  
of problem



Customized and  
bespoke solutions



**DRIVING  
INNOVATION IN  
SEPARATION  
SCIENCE &  
WASTEWATER  
TECHNOLOGIES**

## Industries We Serve

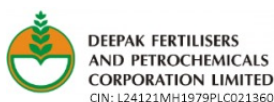
- Pharmaceutical & API
- Chemicals & Fine Chemicals
- Sugar, Distillery & Bioethanol
- Petroleum & Petrochemical
- Pulp & Paper Industry
- Textile, Dye & Pigments
- Mining & Minerals
- Food, Dairy & Beverage
- Biopharmaceuticals & Fermentation

**35 +**  
Years of  
Experience

**7 +**  
Countries  
Reached

**1500 +**  
Clients  
Served

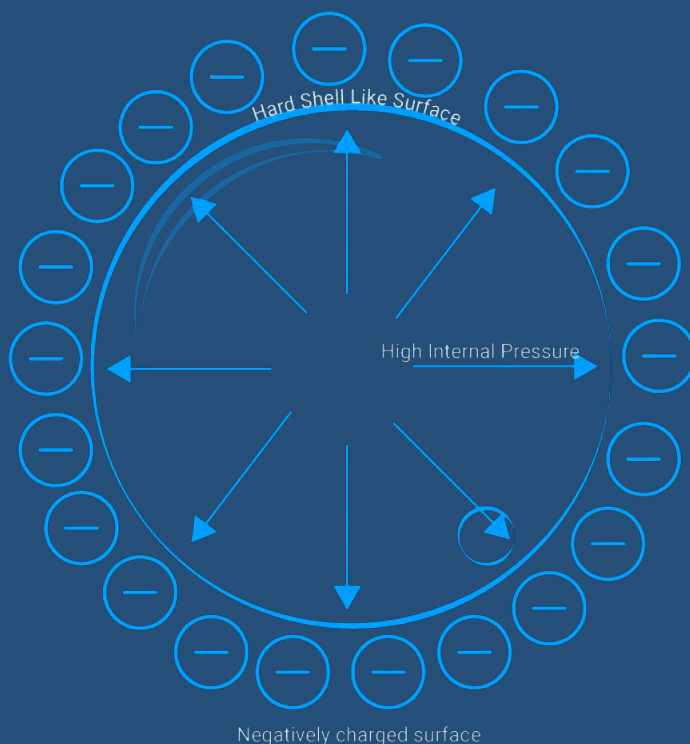
## Our Prominent Clients



# NANOPOREX - E

## Nanobubbles for efficient aeration

Nanoporex offers cutting-edge nanobubble technology, providing a cost-effective and efficient solution for wastewater treatment, enhancing aeration, and filtration processes.



Nanoporex employs nanobubbles, ranging from 50 to 100 nm in size, which are stable and non-buoyant.

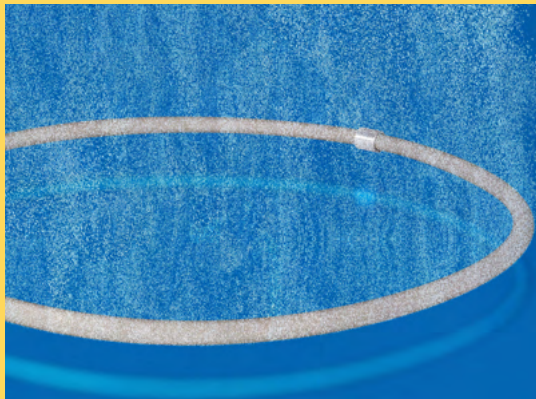
These nanobubbles directly inject oxygen into the system, significantly reducing energy consumption compared to traditional aeration methods that use air containing 70% nitrogen.

This efficient oxygen delivery enhances the aeration process, ensuring optimal dissolved oxygen levels in wastewater treatment.

— Working Mechanism

# Features

## 01



### Efficient Aeration Solution

Nanobubbles provide a cost-effective supplemental aeration option for moving bed bioreactors (MBBRs).

By injecting oxygen directly and utilizing stable nanobubbles, energy consumption is minimized, resulting in a low-energy solution for aeration.

## 02

### Benefits in Treatment



Nanobubbles are effective in controlling odors, preventing anaerobic conditions, and maintaining high dissolved oxygen (DO) levels.

This modular and quick solution enhances treatment efficiency across various water and wastewater processes.

## 03

### Odour Control

#### ✓ Efficient Oxygen Maintenance

Nanobubbles efficiently maintain DO levels, preventing the formation of anaerobic conditions that lead to odorous compounds.

#### ✓ Odor Treatment

An effective treatment for offensive odors, particularly hydrogen sulfide, in wastewater.

## 04

### Oil-Water Separation

#### ✓ Flotation Enhancement

Nanobubbles improve the flotation process, making it easier to separate oil and suspended solids.

#### ✓ Perfect for Produced Water

Ideal for treating produced water in oil refineries.

## 05






### MBBR

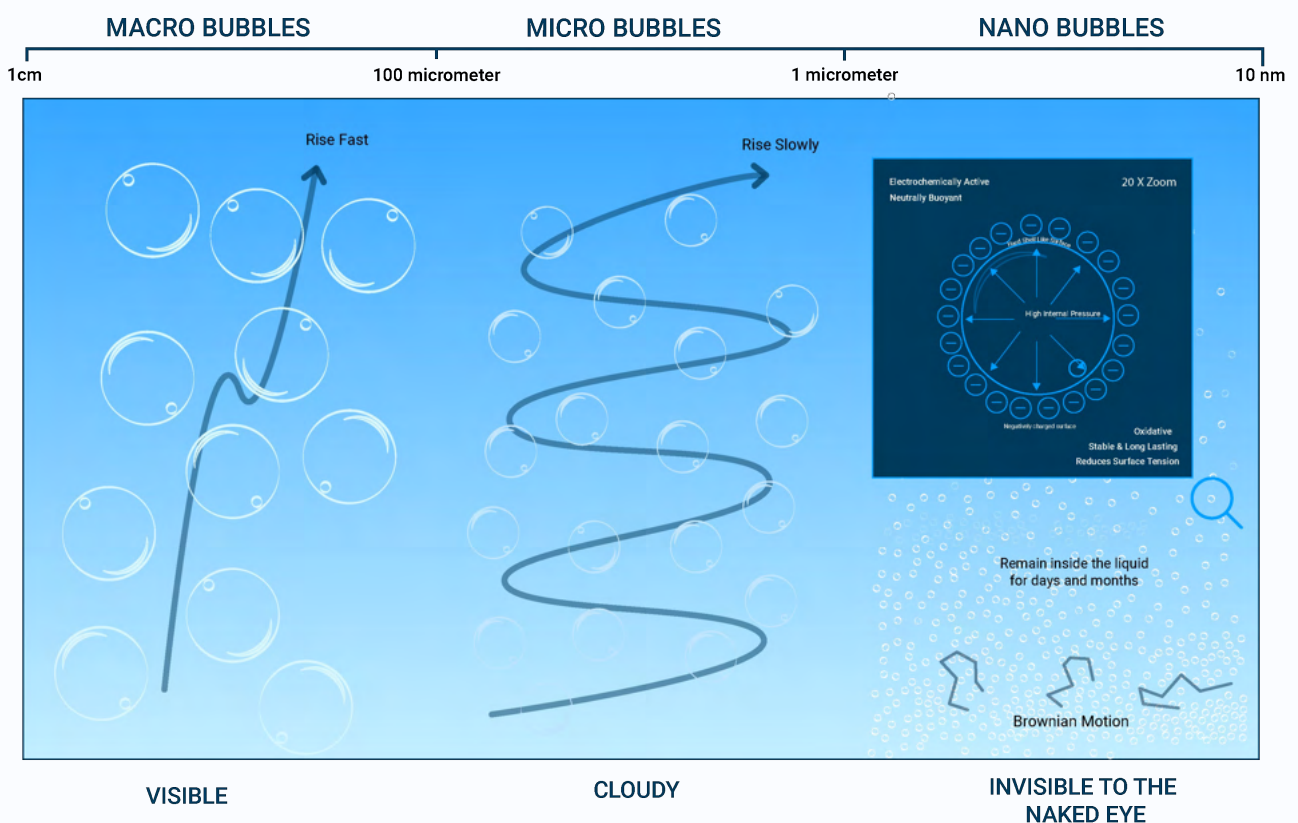
#### ✓ Supplemental Aeration

Nanobubbles provide additional aeration during peak loading events, ensuring consistent DO levels.

#### ✓ Cost-Effective Solution

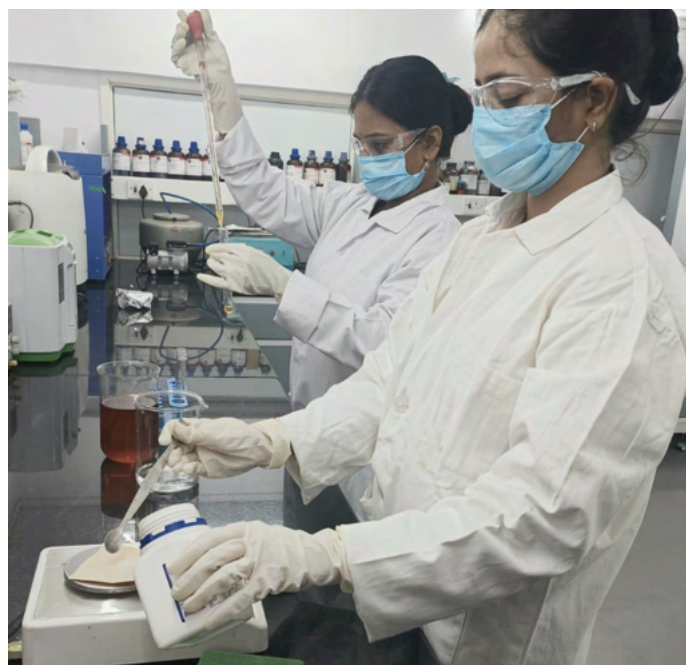
A cost-effective method to maintain target DO levels in industrial MBBR.

Criteria	Diffusers	Nanoporex-E
 <b>Energy Costs</b>	High energy consumption due to air containing 70% nitrogen.	Lower energy consumption by using pure oxygen and stable nanobubbles. Power almost 50-60% lower
<b>O<sub>2</sub></b> <b>Oxygen Uptake Power</b>	Lower due to inefficiencies in air diffusion.	Higher due to efficient oxygen delivery directly into the water.
 <b>Ease of Operation</b>	Relatively simple but requires frequent maintenance to prevent clogging.	Generally easy with less maintenance needed due to stable nanobubbles.
 <b>Stability of System</b>	Can be unstable with frequent fouling and maintenance issues.	Highly stable due to non-buoyant and consistent nanobubbles.
 <b>Control Over DO Levels</b>	Moderate	Enhanced control with precise oxygen delivery and distribution.
 <b>Growth of Bacteria</b>	Can lead to uneven bacterial growth due to fluctuating oxygen levels.	Promotes uniform bacterial growth by maintaining consistent DO levels.



## Water Treatability Studies

Diva Envitec Pvt Ltd operates an Innovation Center in Mumbai, where we conduct comprehensive treatability studies on client-provided samples. By covering minimal logistical costs, you can access this facility and receive a detailed assessment of the most effective treatment methodology tailored to your specific wastewater stream.



## Contaminants We Treat

- Acetone
- Acetone-Amine Impurities
- Amine Dimers
- Ammoniacal Nitrogen
- Ammonium Chloride (NH<sub>4</sub>Cl)
- Amino Naphthol Disulphonic Acid Sodium Salt
- P- Cresol
- Cyanides
- DD3: Sodium Acetate, Sodium Ferrocyanide, Rosin, Sodium Sulphite
- DD7: Sodium Acetate, Sodium Ferrocyanide, Copper Sulphate, Rosin, Sodium Sulphite
- D-40
- Fluorides
- Hexavalent Chromium
- Hydrothioic Acid (HSCN)
- Iron Oxide
- Iso-Thiocyanate
- Latex (recovery project)
- Methyl Ethyl Ketone (MEK)
- Methanol
- Nitro Cresol (DNOC & DNPC)
- Naphtha
- Oil and Grease
- Para Amino Phenol
- Phenol
- Phenolic Compounds
- Picric Acid
- Phosphates
- Phosphoric Acid (18-20% concentration)
- Polyethylene Glycol
- Polyvinyl Alcohol (recovery project)
- Sulfides
- Sodium Chloride (NaCl)
- Sodium Hydroxide (NaOH)
- Sodium Sulphate
- Sodium Thiocyanate (NaSCN)
- Solvent Black 46: Sodium Acetate
- Solvent Red: Sodium Acetate, Residual Dye
- Sulphate
- Sulfolane
- Toluene
- Titanium Oxide
- Trace Aromatic Amines
- Yttrium Chloride

And many more...



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