



DIVA ENVITEC PVT. LTD.

Wastewater Treatment

REVIVING WATER SUSTAINABLY

info@aboutfilter.com



www.divaenvitec.com



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

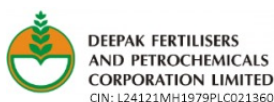
- Pharmaceutical & API
- Chemicals & Fine Chemicals
- Sugar, Distillery & Bioethanol
- Petroleum & Petrochemical
- Pulp & Paper Industry
- Textile, Dye & Pigments
- Mining & Minerals
- Food, Dairy & Beverage
- Biopharmaceuticals & Fermentation

35 +
Years of
Experience

7 +
Countries
Reached

1500 +
Clients
Served

Our Prominent Clients



NANOMATRIX

Alternate to SAND or Multi-grade Media Filtration

Nanomatrix offers next-gen filtration technology designed to optimize efficiency and performance, transforming fluid contamination removal and wastewater treatment across various industries.



Nanomatrix employs ultra-thin Polyether Sulfone (PES) fibers arranged in a 3D matrix, ensuring efficient separation and filtration.

Its compact design seamlessly integrates into existing sand and glass bead filtration systems, enhancing filtration efficiency while reducing energy consumption and maintenance requirements.

Traditional sand filters often struggle with fine particle retention, leaving post-filter liquids cloudy. Nanomatrix replaces old media, enhancing performance and clarity. The process begins with detailed consultations, lab tests, and pilot plant assessments to determine the ideal size, design, and cost.

Working Mechanism



Its 3D matrix filtering ensures consistently pure and sparkling water, preserving the integrity of your processes.



Nanomatrix features a compact design with thin PES fibers stacked in layers, providing unbeatable separation efficiency.



It seamlessly replaces old sand or glass bead filters, instantly enhancing your filtration capabilities with fewer backwash rounds.



Achieving sub-micron filtration levels under 1 micron, it boosts output quality and reduces downtime.



Optimizing space and energy, Nanomatrix boasts a small footprint and light pressure, with easy backwashing for simple maintenance.

FEATURES

NANOMATRIX

Alternate to SAND or Multi-grade Media Filtration

Criteria	Sand Filters	Nanomatrix
 Design	Traditional, bulky design using sand as the filtration media.	Compact design with thin PES fibers stacked in layers.
 Filtration Efficiency	Moderate efficiency, often leaving fine particles in the water.	High efficiency with 3D matrix filtering ensuring consistently pure water.
 Micron Retention	Typically retains particles above 20 microns.	Achieves sub-micron filtration levels under 1 micron
 Energy Consumption	High energy usage due to the need for large volumes of water and frequent backwashing.	Lower energy consumption with a small footprint and light pressure.
 Maintenance	Requires frequent backwashing and media replacement.	Easy backwashing and minimal maintenance due to advanced design.
 System Stability	Prone to clogging and requires regular maintenance.	Highly stable with consistent performance and less frequent maintenance
 Space Efficiency	Requires a large installation area.	Optimizes space with a compact design
 Operational Costs	Higher due to frequent media replacement and high energy usage.	Lower operational costs with reduced energy consumption and maintenance needs.
 Ease of Integration	Difficult to retrofit into existing systems without significant modifications.	Seamlessly integrates into existing systems, easily replacing sand or glass bead filters.
 Output Quality	Moderate, with potential for cloudy post-filter liquid.	High output quality with consistently pure and sparkling water.
 Applications	Limited to basic filtration needs.	Versatile, suitable for pharmaceuticals, biotech, food and beverage, paper, dairy, and more.

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 (NH₄Cl)
- 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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