

NICO DRONA NANOBUBBLE SYSTEM ADVANCED OXYGENATION FOR INDUSTRIAL WASTEWATER TREATMENT

Industrial wastewater treatment demands high efficiency, process stability, and compliance with stringent discharge standards. The **NICO DRONA Nanobubble System** introduces an advanced approach by significantly enhancing oxygen transfer, improving pollutant breakdown, and stabilizing biological treatment processes.

Challenges in Industrial Wastewater Treatment

Industrial effluent systems often face persistent operational challenges:



Inefficient Oxygen Transfer

Conventional aeration systems limit biological treatment performance.



High COD/BOD Loads

Complex organic contaminants are difficult to degrade effectively.



Excess Sludge Generation

Inefficient processes lead to higher sludge handling and disposal costs.



High Energy & Chemical Usage

Increased reliance on aeration and chemical dosing raises operational expenses.

Key Benefits

Delivering measurable improvements across industrial wastewater systems:



Higher Treatment Efficiency

Faster and more effective contaminant removal.



Lower Operational Costs

Reduced energy consumption and chemical dependency.



Improved Compliance

Helps meet stringent discharge and environmental norms.



Scalable & Easy Integration

Retrofit-friendly with minimal infrastructure changes.

Why NICO DRONA?

NICO DRONA is engineered to deliver superior wastewater treatment performance:



Enhanced Oxygenation & Treatment Efficiency

Improves microbial activity and accelerates pollutant degradation.



Superior Contaminant Removal

Enables effective reduction of COD, BOD, and suspended solids.



Energy & Chemical Optimization

Reduces aeration energy demand and minimizes chemical usage.



Improved Sludge Management

Lowers sludge generation and simplifies handling.



Stable & Reliable Performance

Ensures consistent output quality and process stability.

Key Application Areas



Pharmaceutical Effluent Treatment

Improves degradation of complex organic compounds.



Textile & Dyeing Wastewater

Enhances color removal and breakdown of dyes and chemicals.



Chemical & Petrochemical ETPs

Supports oxidation and removal of hazardous contaminants.



Food & Beverage Wastewater

Boosts treatment efficiency for high organic loads and odor control.



Pulp & Paper Effluents

Aids lignin breakdown and improves water clarity.



Zero Liquid Discharge (ZLD) Support

Enhances pre-treatment efficiency for better water recovery.



ISO Certified Quality Standards



Global Presence



Customizable, Application-Specific Solution

Discover Smarter, More Efficient Industrial Wastewater Treatment Solutions.

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Contact us for more

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