

Why Make Us Your Choice?



Poultry Manure and Litter Management:

G-Nano technology treats runoff from poultry litter and manure, reducing environmental impact and enabling safe water reuse.



Poultry Slaughter Operations Wastewater Treatment:

G-Nano excels in treating slaughterhouse wastewater, effectively handling contaminants and ensuring compliance with standards such as EPA guidelines, which mandate BOD and COD reductions.



Sustainable Water Reuse with GI AQUA TECH:

Our solutions support water sustainability by allowing treated water reuse in farm washing and irrigation, reducing water consumption by up to 40%.

GI Aqua Tech: Sustainable and efficient wastewater solutions with G-Nano Technology, turning challenges into growth.

*Ready to simplify your poultry farm's wastewater treatment and ease your operational challenges?
Contact us today*



Poultry Wastewater Treatment

Advancing Poultry Wastewater Management

Poultry farms, essential to global food production, generate substantial wastewater during slaughtering, containing organic waste and blood. If untreated, this wastewater poses severe environmental risks. GI Aqua Tech offers an innovative solution with our G-Nano Technology.

Key Challenges in Poultry Wastewater

Poultry wastewater treatment is challenging due to:



High Organic Load: Blood and organic matter lead to high biochemical oxygen demand (BOD) and chemical oxygen demand (COD), often exceeding **2,000 mg/L**.



Fat, Oil, and Grease (FOG) Accumulation: FOG can clog systems and resist breakdown.



Pathogens: Harmful bacteria and viruses are common, posing health risks.



Nutrient Overload: Excess nitrogen and phosphorus can cause eutrophication, harming aquatic life.

How G-Nano Technology Works ?

G-Nano Technology is specifically designed to tackle these complexities:

Nutrient Recovery:

It removes and recovers nutrients, converting waste into agricultural resources.

Advanced Filtration:

Nanoscale filters capture particles as small as 0.01 microns, effectively removing FOG and pathogens.

Enhanced Biodegradation:

Nano-enhanced catalysts reduce BOD and COD by up to 90%.

Pathogen Elimination:

The technology achieves over 99.9% elimination of harmful microorganisms.

Unique Benefits of GI Aqua Tech Solutions



Superior Efficiency: G-Nano Technology offers 30% higher treatment efficiency compared to traditional methods, ensuring compliance with environmental regulations.



Cost-Effective: Reduces operational costs by 20-30% through lower chemical and energy use. Nutrient recovery adds further value.



Environmentally Friendly: Aligns with green initiatives, reducing the environmental footprint and ensuring safe water discharge.



Easy Integration: Seamlessly integrates into existing systems with minimal disruption.

Applications in the Poultry Industry:

Poultry Manure and Litter Management

G-Nano also treats runoff from poultry litter and manure, reducing environmental impact and enabling safe water reuse.



Slaughterhouse Wastewater Treatment

G-Nano excels in treating slaughterhouse wastewater, effectively handling contaminants and ensuring compliance with standards such as EPA guidelines, which mandate BOD and COD reductions.

Sustainable Water Reuse with GI Aqua
Our solutions support water sustainability by allowing treated water reuse in farm washing and irrigation, reducing water consumption by up to 40%.

