



MIZEN
WATER SOLUTION

CHANGING

**THE WAY
INDUSTRY
TREATS**

WASTEWATER

GONE ARE THE DAYS OF BIOCULTURES

WASTEWATER COMPANIES
ARE SWITCHING TO 



MIZEN
WATER SOLUTION

- Helps Ensure Discharge Compliance
- - Capability To Handle BOD/COD Shocks
- Quick ETP/STP Commissioning Rapid Biomass Growth
- Suitable For MBR Highest BOD/COD Reduction
- Technical Support
- Biology Survives Temperature Shocks
- Ammonia Reduction Ideal Alternative To UREA-DAP
- Enhances Biogas Generation Oil and Grease Digestion
- - Well Researched & Tested
- Toughest Odor Control
- Improves Dissolved Oxygen
- Well Setting Floccs
- Made In India





ABOUT US

MIZEN WATER Solutions has a long experience in the development of biological products to improve wastewater treatment.

The present-day treatment methods are unsatisfactory & we feel that our products can bring a big change in terms of economics & performance.

Our herbal extracts, enzymes and microbes can be deployed in Septic tanks, Industrial wastewater treatment, Grease trap management, BOD, COD reduction, Ammonia reduction, Odor elimination, Oil spill management, Algae control, Composting, Solid waste management.

Easy to use formulations, quick results and performance at low dosages have made our products very well accepted by waste water professionals. All product sales are backed by technical support from our head office & through a country wide service network of channel partners.



Board Of Director

Mizen Water Solutions Founder **Vishesh Tiwari**

Vishesh Tiwari stands as a testament to innovation and vision in the realm of environmental engineering. In 2021, he founded Mizen Water Solution Company, fueled by a fervent passion for sustainable water practices. With a rich tapestry of over 10 years of experience in the water industry behind him, Tiwari was no stranger to the challenges posed by water scarcity in bustling urban locales. His commitment was clear: to find solutions that were both viable and necessary.

Mizen Water Solution quickly emerged as a beacon of hope in the realm of urban water conservation. With Tiwari at the helm, the company wove a fabric of innovation laced with practical understanding. The objective was to provide communities with unwavering access to water sources that were not just clean but also reliable. This was more than just business; it was about securing a fundamental human right for countless urban dwellers.



WATIX-30

DESCRIPTION

Powdered bioproduct with Microbes, Enzymes & Herbs to build well settling MLSS. Used for Commissioning, Recovery & Maintenance of Aeration tank activated sludge.



BENEFITS

- ✦ Maximizes COD, BOD, TSS reduction.
- ✦ Helps in Quick recovery, Quick commissioning.
- ✦ Improves settleability of activated sludge.
- ✦ Used in Lagoons, Septic tanks, Ponds, Lakes, Insitu Drain bioremediation, works across all technologies MBBR, ASPS, SBR.



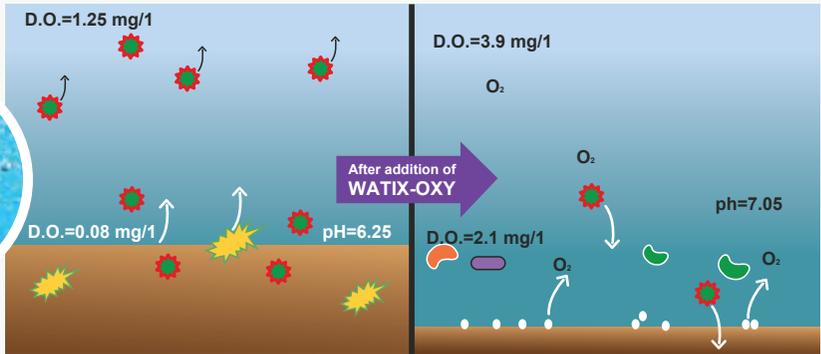
BEFORE



AFTER

BENEFITS

- ✦ Quicker Wastewater treatment.
- ✦ Odor elimination.
- ✦ Sludge stays settled for longer hours in clarifiers.
- ✦ Eliminates Ammonia, H₂S, Septic conditions.
- ✦ Used in ETPS, STPs, Composting, Oil and grease Digestion.



WATIX BIO-FRESH

DESCRIPTION

Available in powder and liquid forms provides biological oxidation of odors like Ammonia, Sulphides, Mercaptans, Indoles etc. Not just masiing, Actual break down of odorous compounds Into basic elernents.



BENEFITS

- ✦ Eliminates wastewater odor without using hazardous Chemicals.
- ✦ Eliminates toxicity and filamentous bulking due to H₂S and Ammonia.
- ✦ Works in low DO, Anaerobic conditions.
- ✦ ETPS, STPs, Ponds, Lakes, Bioremediation projects, Aquaculture and Solid Waste.



WATIX SETTLER

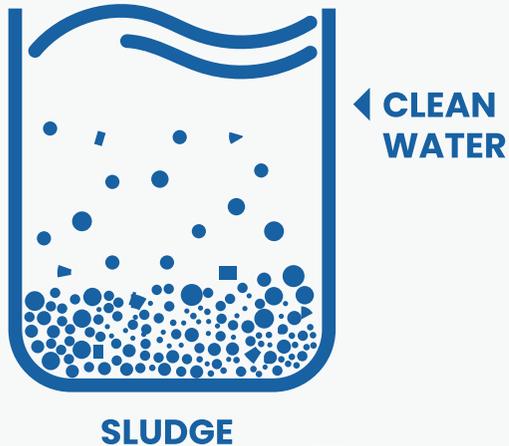
DESCRIPTION

One of its kind 100% organic coagulant & flocculant having nano chitosan to reduce TSS, Colour, BOD & COD, can be used in activated sludge, ideal replacement for PAC, inorganic coagulants.



BENEFITS

- † Enhances TSS reduction.
- † 100% Biodegradable.
- † Removes colors, dyes, metals like Cr, Cu, Fe, Mn, Pb, Zn.
- † Improves flocculation of MLSS.



WATIX FLOC ANIONIC

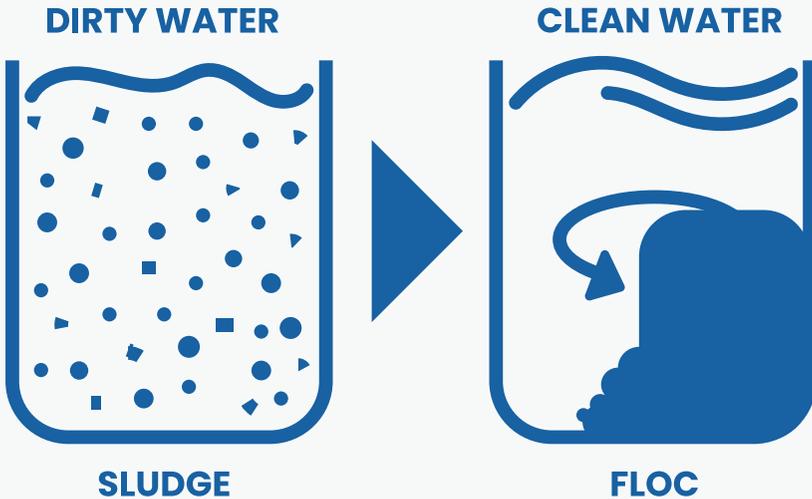
DESCRIPTION

High molecular weight high charge anionic polyelectrolyte for flocculation & sedimentation of suspended solids. useful in primary treatment.



BENEFITS

- ✦ Easy handling.
- ✦ Reduces the effluent's BOD & COD, TSS.
- ✦ Dependable throughout a wide pH Range.
- ✦ Generates huge flock size & Reacts Rapidly



WATIX FLOC CATIONIC

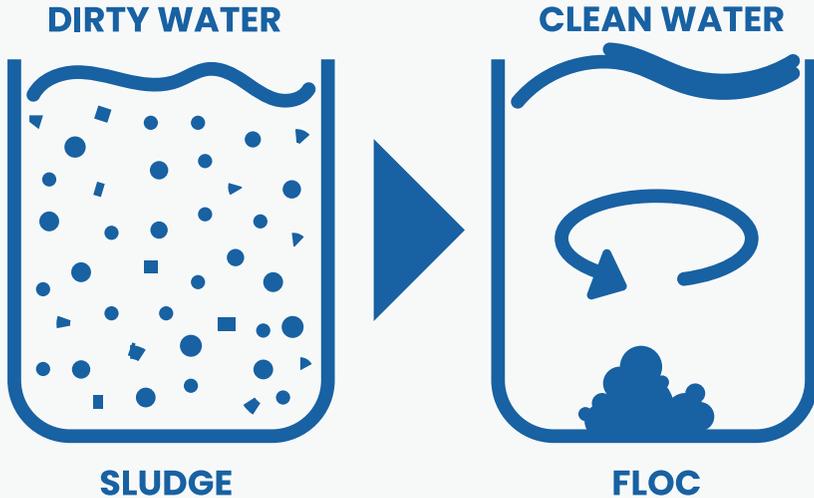
DESCRIPTION

High molecular weight high charge cationic polyelectrolyte for dewatering of secondary sludge. Used in belt filter, filter press, Screw Press, DAF, Filtration.



BENEFITS

- ✦ Neutralizes negatively charged floccs.
- ✦ Promotes filtration.
- ✦ Reduces sludge volume considerably.



WATIX FLOW

DESCRIPTION

A liquid bio formulation having fast acting enzymes and microbes to digest all kinds of Fats, Oil & Grease.



BENEFITS

- ✦ Complete control of grease odors.
- ✦ No kitchen downtime due to clogged drains.
- ✦ Easy grease trap management.
- ✦ Reduction in pests, Pumping/lifting frequency eliminates foaming problems in STPS, ETPs due to F.O.G.

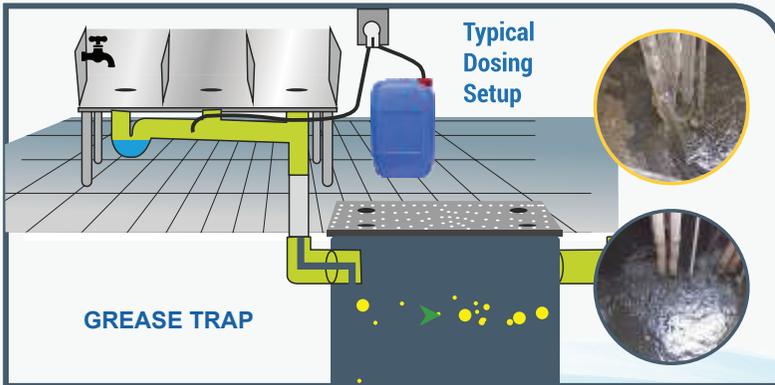
AFTER 1 WEEK



AFTER 2 WEEKS



AFTER 3 WEEKS



WATIX CHLORONIL

DESCRIPTION

SUPER CHLORONIL utilizes the unique chemistry of vitamin C to neutralize chlorine, chlorides and chloramines from water, Improves bioactivity many.folds.





BENEFITS

- ◆ 100% organic and non toxic.
Does not change the pH of
- ◆ the resultant water.
Does not alter the dissolved
- ◆ oxygen level of water.
- ◆ Neutralizes chlorine and its
compounds rapidly.



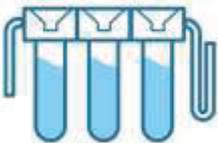
**CHLORINE
REMOVAL**



EXPERT SERVICES WE OFFER



◆ **Troubleshooting
Guidance**



◆ **ETP/STP performance
Improvement**



◆ **Anaerobic Digester
efficiency improvement.**



3 Tips To Improve Wastewater Treatment Plant

Maintain Constant Inlet Feed: Uniform

✦ **feeding promotes efficient operations and optimal biological performance.**

✦ **On a regular basis, waste sludge from the tube settler or clarifier.**

Use cutting-edge bio inputs

✦ **like WATIX BIO-FRESH, WATIX 30 and WATIX OXY to increase plant productivity.**



STP/ETP Activated sludge Commissioning Procedure with **WATIX 30 & WATIX OXY.**



Make sure that the aeration tank's ventilation & mixing are sufficient for the D.O. to achieve 2 ppm, or 2 mg/L.



Add wastewater with BOD & COD to the aeration tank.



Maintain a pH of between 8.5 and 8.5 & a temperature between 20 and 35 degrees Celsius.



Add WATIX 30 and WATIX OXY at 10 ppm, or 10 gm/KL of the volume of the aeration tank, then hold & aerate for 18 hours.



Recirculate the MBR or secondary clarifier's sludge back to the aeration tank while continuing to feed the system.



Add WATIX 30 and WATIX OXY at 3 ppm* , or 3 gram/KL Influent, every day.



How To Revive Septic Tanks

- ◆ **Examine and check for any indications of damage or blockages; if feasible, remove the sludge that has accumulated.**
 - ◆ **Avoid using harsh chemicals, antibacterial products, & objects that aren't biodegradable.**
 - ◆ **For the purpose of resuming and boosting microbial activity, provide WATIX 30 and**
WATIX OXY speeds up the breakdown of organic
 - ◆ **debris and decreases odours by creating an oxygen-rich environment.**
 - ◆ **For technical Support reach out to us.**
- 

OUR RESULTS

RESIDENTIAL SOCIETY NAGPUR

WATIX BIO-FRESH & WATIX OXY being used regularly



Before



After

HYATT REGENCY DEHRADUN

WATIX 30 & WATIX OXY being used regularly



Before



After

WOOD BOARD MANUFACTURER

TDS, Silica Reduction by using WATIX 30



Before



After

CETP, BHIWADI, RAJASTHAN

MLSS/SV30

Before



After



PAPER MILL

Secondary Clarifier



TECHNIQUES TO CONTROL ODORS IN WASTEWATER

- ✦ We advise using the biologically simple route.
- ✦ Introduce WATIX OXY to create nano-sized oxygen bubbles that dispel odorous gases.
- Introduce WATIX BIO-FRESH to break down the odor causing organic chemicals.





WHY OIL & GREASE MUST NOT BE RELEASED IN STPS & ETPS

- ✦ **Malodor problems.**
- ✦ **Excessive foam production and increase housekeeping by operators.**
- ✦ **Decreased outlet water quality**
- ✦ **More sludge production.**



TYPES OF FOAMING, CAUSES AND SOLUTION

TYPE OF FOAMING	CAUSE	SOLUTION
White non stable foaming	Plant start, or high BOD load, Low D.O.	Such foaming normally goes away in 3-4 days, if it persists then address the causes mentioned. Use WATIX OXY to increase D.O
Sticky chocolate mouse foam	Filamentous foaming due to oil & grease or nutrient deficiency, long sludge age	Purge the MLSS to reduce the filaments and regrow the MLSS with WATIX 30

Contact the Mizén Team for more guidance

Our Happy Client





MIZEN WATER SOLUTION

- **ODOR CONTROL** **SEWAGE TREATMENT** **BIOREMEDIATION**
- **WASTEWATER BIO CULTURE** **SLUDGE COMPOSTING** **AMMONIA REDUCTION.**

USE IT TO BELIEVE IT



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