



# MIZEN WATER SOLUTION



Refreshing the Earth

Welcome to our leading consultancy firm based in Noida, India. With a team boasting extensive expertise in industrial pollution control and statutory compliance, we pride ourselves on being a highly competent organization and your one-stop solution for all industrial pollution abatement need. Our experts bring diverse experience in designing treatment plants tailored to different industries, while our pool of competent staff, including Chemists, Operators, and Administrators, ensures seamless project execution.

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.

Over the years we have completed numerous pollution control projects, encompassing the design, installation, and commissioning of cutting-edge wastewater treatment plants and state-of-the-art air pollution control equipment.

Beyond this, we go the extra mile by handling the Manufacturing, Operation, and Maintenance contracts for the MRV.



## VISHESH TIWARI

(Founder & CEO)

### MIZEN WATER SOLUTIONS

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 7 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.

## OUR VISION & MISSION



Wastewater engineering and pollution Abatement services



To provide an innovative solution For pollution control



To achieve and maintain customer Satisfaction by providing reliable, Innovative and compliant solutions



To provide economic and affordable Solutions for pollution control



To improve environment and ensure Pollution prevention while taking Care of business



To provide reliable, trustworthy Solutions for pollution control



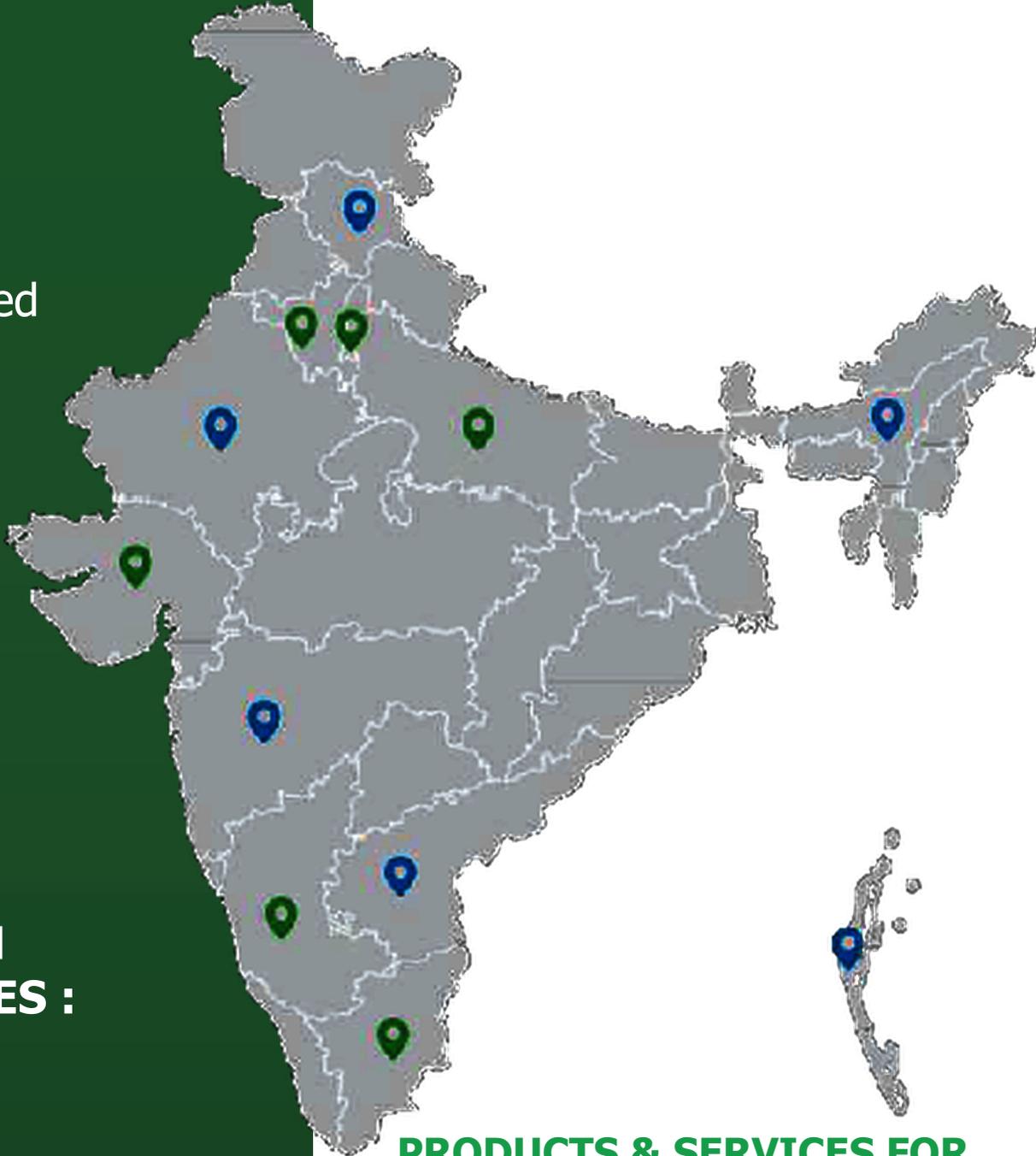
# OUR ACHIEVEMENTS

# 40+

40+  
Projects Installed

Installations in  
Pan India

**PRESENCE IN  
BELOW STATES :**



## PRODUCTS & SERVICES FOR

Food, Nutraceutical, Herbal, Biotech, Pharma, Chemical,  
RND, Surface Treatment, Automobile, Textile, Dyes, Paper  
& Pulp, Sugar & Distillery, Industrial, Infrastructure,  
Residential & Commercial Projects ETC.

## PRODUCTS

### Waste Water Treatment

- ◆ Sewage Treatment Plant
- ◆ Effluent Treatment Plant
- ◆ Single & multiple effect Evaporators

### Water Treatment Plant

- ◆ Water Softener,
- ◆ Ultra filtration
- ◆ Reverse osmosis
- ◆ DM Plant

## AIR POLLUTION CONTROL EQUIPMENT'S

- ◆ Wet Scrubbers
- ◆ Dust Collectors
- ◆ Bag Filters
- ◆ Cyclone Filters
- ◆ Fume Extractors.

## OTHER PRODUCTS

- ◆ Organic Waste Converter Machines
- ◆ Water & Waste Water Treatment
- ◆ Equipments
- ◆ Spare & chemicals
- ◆ Online Continuous Emission
- ◆ Monitoring System
- ◆ Environmental Monitoring Services

## ENVIRONMENT SERVICES

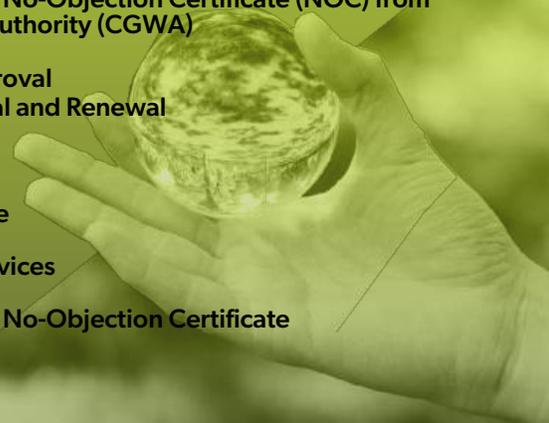
- ◆ Facilitate and Obtaining Environmental Clearances for All Applicable Projects
- ◆ Conducting Environmental Impact Assessment Studies
- ◆ Preparation of Environmental Management Plan (EMP)
- ◆ Post Environmental Clearance Compliances
- ◆ Preparation of Environmental Statement & Compliances
- ◆ Phase 1 and Phase 2 Environmental Due Diligence
- ◆ Environmental Remediation Assessment
- ◆ Coastal Regulation Zone Clearances (CRZ Clearance)
- ◆ No Increase in Pollution Load Certification
- ◆ Environmental Monitoring Services
- ◆ NOC's/clearances for Sewer water, Storm water drain, CFO, Aviation, Tree etc.
- ◆ Green Building Certification (LEED, IGBC & GRIHA Etc.)
- ◆ Socio Impact Assessment/ Demographic Surveys
- ◆ Sustainable Solutions on Energy Efficiency, Renewable Energy and Fuels and Greenhouse Gas Management
- ◆ Environmental and Social Due Diligence
- ◆ Environmental Site Auditing, Green Audit
- ◆ Life Cycle Assessment (LCA), Carbon foot printing and GHG accounting, Net Zero and SBTi Target Setting & Advisory
- ◆ ESG/Sustainability Policy & Framework Development.
- ◆ Business Responsibility and Sustainability Report development

## CONSENT MANAGEMENT AND COMPLIANCES

- ◆ Facilitating and Obtaining Consent for Establish and Consent for Operate
- ◆ Consent Compliance's (Environment Audits (Form V), Hazardous Waste Return (Form IV) & Hazardous Waste Authorization
- ◆ EPR Approval for All Business (Generator, Importer, Brand Owner & Recycler)

## OTHER LEGAL COMPLIANCE SERVICES

- ◆ Facilitate and Obtaining No-Objection Certificate (NOC) from Central Ground Water Authority (CGWA)
- ◆ DISH - Factory Plan Approval  
Factory License Approval and Renewal
- ◆ PESO - Plan Approval
- ◆ PESO License for Storage
- ◆ Fire and Safety NOC Services
- ◆ Facilitate and Obtaining No-Objection Certificate



# WATER TREATMENT PRODUCTS



## WTP- WATER TREATMENT PLANT

A water treatment plant is a facility designed to purify and treat raw water from natural sources, such as rivers, lakes, or reservoirs, into clean and safe water suitable for human consumption, industrial use, or other specific purposes. The primary goal of water treatment plants is to remove impurities, contaminants and pathogens from the water to make it potable and environmentally safe

**BENEFITS:** Safe Drinking Water, Protection of Public Health, Supporting Industries and Agriculture

## RO REVERSE OSMOSIS

Reverse Osmosis is an advanced water treatment technique that employs semi-permeable membranes to remove dissolved salts, contaminants, and impurities from water. It transforms ordinary water into a highly purified liquid, free from harmful substances.

**BENEFITS:** Health & Safety, Enhanced Odor, Space Efficient



## ULTRAFILTRATION

Ultrafiltration (UF) is an advanced membrane-based filtration process that effectively removes suspended solids, colloids, bacteria, and viruses from water. It ensures superior water purity and represents a significant leap forward in the field of water treatment.

**BENEFITS:** High Water Quality, Pathogen Removal, Space Efficient



# WASTE WATER TREATMENT PRODUCTS

## STP-SEWAGE TREATMENT PLANT

Implementation of STP plays a vital role in safeguarding public health and the environment by significantly reducing potential risks. Through its efficient treatment of wastewater, the discharge of harmful waste into the environment is substantially curtailed, thereby contributing to the enhancement of environmental well-being. In a responsive and adaptive manner, the selection of the appropriate type of STP hinges on the specific site conditions and the unique requirements of each client, ensuring tailored and effective solutions are employed accordingly.



## ETP-EFFLUENT TREATMENT PLANT

This process possesses the remarkable ability to transform wastewater into reusable water by effectively eliminating harmful toxins, resulting in the production of clean & safe water. Considering that only a mere 3% of Earth's water is suitable for consumption, this capacity to recycle & reuse water becomes exceedingly beneficial to the environment. Moreover, the employment of an Effluent Treatment Plant (ETP) leads to substantial water conservation. Recycling & reusing water effectively reduce water wastage, thereby generating a positive environmental impact. In summary, this sophisticated process of wastewater treatment not only ensures the availability of clean water but also presents an opportunity to uphold the health & integrity of our environment.



## TYPES IN STP/ETP

ASP

EA

MBBR

MBR

SBR

USB

FSTP

## MVR EVAPORATOR PLANT

The Mechanical Vapor Recompression (MVR) Evaporator is a forced circulation evaporator with or without self-cleaning fluidized bed technology or a Falling Film Evaporator without self-cleaning fluidized bed technology. Feed is initially heated by using steam/Thermic Fluid/Electricity in Plate Heat Exchanger, heated feed enters into the calandria and then to the vapor-liquid separator, where vapors & liquid gets separated, low-pressure vapors from VLS enter the MVR Fan/Blower/Compressor, where it gets compressed to increase the Temperature & Pressure of vapors, compressed vapors then enter to shell side of calandria, where it transfers the heat to feed inside the tube by condensing.

Hot condensate from the Calandria shell is used to preheat the incoming feed in a plate heat exchanger.

The concentrate from VLS is then fed to a settling tank followed by a centrifuge for the solid separation post evaporation. In the centrifuge, separation occurs in two cycles: Filtration and Centrifuging. The mother liquor is sent back to the feed tank as a recycle stream. The purge is sent to the ATFD feed tank for further Separation of dissolved solid.

## BENEFITS OF MVR PLANT

MVR Evaporation offers numerous advantages over alternative evaporation processes

- ◆ MVR Evaporator plant consumes less energy. Compared to conventional evaporators, it reduces overall plant operating costs in the conventional evaporator, most of the energy in the form of steam generated is either lost or partially utilized. In the mechanical vapor recompression process, the entire steam is compressed using the mechanical pump at higher pressure, creating high heat energy for further evaporation.
- ◆ Low-temperature evaporation: The process enables low-temperature evaporation, which minimizes the risk of thermal degradation for heat sensitive materials.
- ◆ Reduced operating costs: MVR evaporator significantly decreases operating costs by reducing energy requirements and maintenance expenses
- ◆ Improved product quality: MVR Evaporator helps maintain product quality by preserving the flavor and aroma of heat-sensitive materials and minimizing thermal degradation risks.
- ◆ High heat transfer performance
- ◆ Compact design
- ◆ Environment friendly
- ◆ No steam and cooling water required.

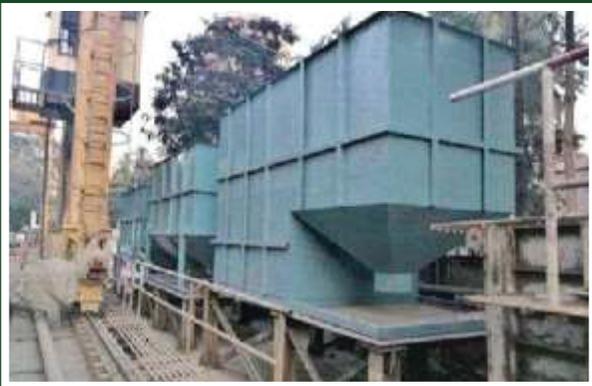


# WTP DM UF & RO

# STP



# ETP



# ZLD



# OUR HAPPY CLIENTS


## REGISTERED OFFICE

Noida Sector 3, E - 59 Third Floor Offices No.  
T-6 Gautama Buddha Nagar  
Pin Code: 201301 (UP)



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**WATER SOLUTION**