



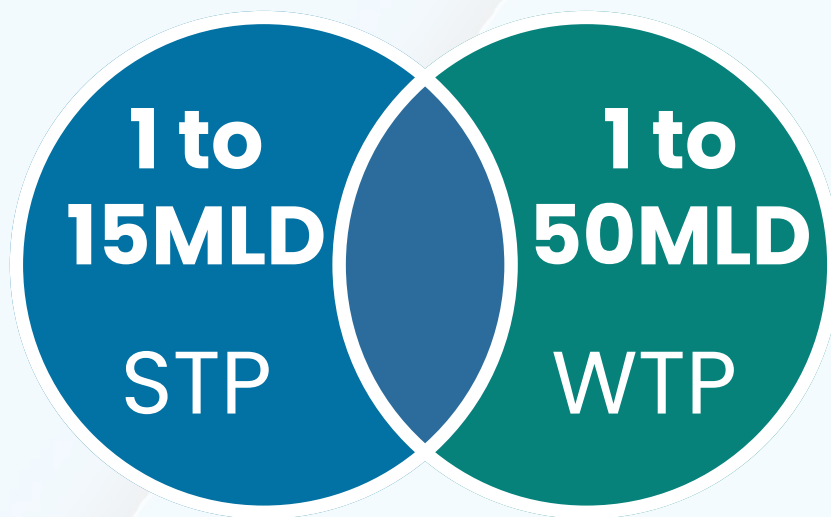
Where Innovation Meets Water Purity

EMPIRE ENVIROTECH PVT. LTD.

Engineering Sustainable Water, Wastewater & Sewage Solutions

Delivering reliable, efficient, and customized equipment for municipal and industrial water & wastewater treatment applications worldwide

Till Date



We provide end-to-end solutions, including:

- Design & Engineering
- Manufacturing
- Installation & Commissioning
- After-Sales Support

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Where Innovation Meets Water Purity

Empire Enviro Tech Pvt. Ltd. is a leading manufacturer of water & wastewater treatment equipment, delivering reliable, cost-effective, and customized solutions for municipal and industrial applications.

WHAT WE OFFER

Technology Provider

- SBR
- MBBR
- MBR

Products

- Screens
- Sluice Gates
- Clarifiers
- Sludge Thickeners
- Agitators
- Aerators
- Screw Presses
- Diffusers
- MBR Membranes

✓ Trusted by State Government Bodies across India

✓ Preferred by Leading Consultants & AA Class Contractors

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MULTIRAKE SCREEN



- Multirake Screen is an automatic mechanical screening system designed for continuous removal of floating and suspended solids.
- It protects downstream equipment, reduces maintenance, and ensures reliable operation in water and wastewater treatment plants.

Key Benefits

- ✓ Continuous and automatic screening
- ✓ Efficient removal of coarse and fine solids
- ✓ Protects pumps and downstream equipment
- ✓ Low power consumption and maintenance
- ✓ Suitable for new & retrofit installations

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Custom-built to suit channel dimensions
- Available in SS304 & SS316 construction
- Bar spacing from 8–50 mm
- Standard and custom bar sizes
- Heavy-duty, corrosion-resistant construction
- Suitable for municipal & industrial applications

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STEP SCREEN



- Step Screen is an automatic mechanical screening system designed for efficient removal of floating, suspended, & fibrous solids from wastewater.
- Its step-shaped screening elements provide continuous, clog-free operation while protecting downstream equipment & reducing maintenance requirements.

Key Benefits

- ✓ Continuous and automatic screening
- ✓ Excellent removal of fine and fibrous solids
- ✓ Self-cleaning design with low clogging risk
- ✓ Low power consumption and minimal maintenance
- ✓ Ideal for municipal & industrial wastewater applications

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Custom-built to suit channel dimensions
- Available in SS304 & SS316 construction
- Screen opening from 3–6 mm (or as required)
- No brushes or scrapers required for cleaning
- Heavy-duty, corrosion-resistant construction

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ROTARY DRUM SCREEN



- Drum Screen is an automatic rotary screening system designed for continuous removal of suspended and floating solids from water and wastewater.
- Its rotating wedge wire or perforated drum ensures efficient screening, protects downstream equipment, and minimizes maintenance requirements.

Key Benefits

- ✓ Continuous and automatic screening
- ✓ High screening efficiency for fine solids
- ✓ Self-cleaning with spray nozzle system
- ✓ Low power consumption & minimal maintenance
- ✓ Compact design for easy installation

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Custom-built to suit required flow capacity
- Available in SS304 & SS316 construction
- Screen opening from 2 –6 mm (or as required)
- Heavy-duty, corrosion-resistant construction
- Suitable for municipal & industrial wastewater applications

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SCREW SCREEN



- Screw Screen is an automatic mechanical screening system designed for efficient removal, conveying, and dewatering of screenings from water and wastewater.
- Its integrated screw conveyor and compaction mechanism ensure continuous operation, reduce manual handling, and protect downstream treatment equipment.

Key Benefits

- ✓ Continuous screening, conveying, and dewatering
- ✓ Efficient removal of coarse and fine solids
- ✓ Reduced screenings volume through compaction
- ✓ Low power consumption and minimal maintenance
- ✓ Compact and fully automatic operation

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Custom-built to suit channel dimensions and flow requirements
- Available in SS304 & SS316 construction
- Integrated screening & conveying system
- Heavy-duty, corrosion-resistant construction
- Suitable for municipal & industrial wastewater applications

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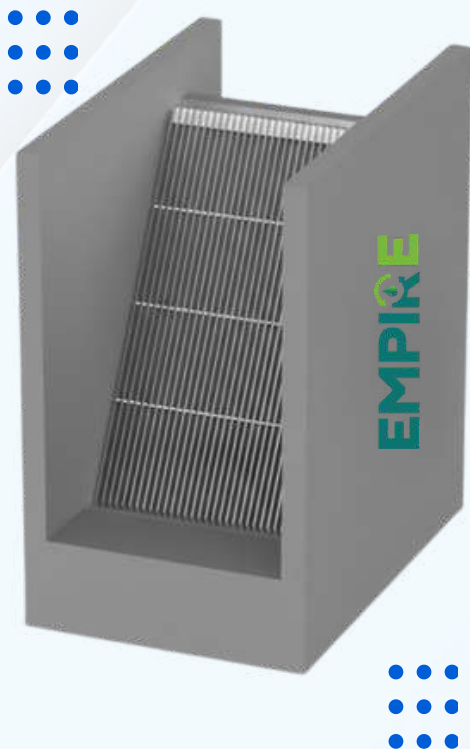
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MANUAL BARSCREEN



- Manual Bar Screen is a simple and robust screening system designed for the removal of coarse floating and suspended solids from water and wastewater channels.
- It provides reliable primary screening, protects downstream equipment, and offers an economical solution for small and medium treatment plants.

Key Benefits

- ✓ Simple and robust construction
- ✓ Efficient removal of coarse solids
- ✓ No power consumption or moving parts
- ✓ Low maintenance and long service life
- ✓ Easy installation and manual cleaning

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Custom-built to suit channel dimensions
- Available in SS304 & SS316 construction
- Bar spacing from 10–100 mm (or as required)
- Heavy-duty, corrosion-resistant construction
- Suitable for municipal & industrial wastewater applications

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J-TYPE SCREEN



- Manual J-Type Screen is a robust manually operated screening system designed for efficient removal of floating and coarse solids from water and wastewater channels.
- Its J-shaped profile allows easy lifting and cleaning while providing reliable primary screening to protect pumps and downstream treatment equipment.

Key Benefits

- ✓ Efficient removal of coarse and floating solids
- ✓ Easy manual lifting and cleaning
- ✓ No power consumption or moving parts
- ✓ Durable, corrosion-resistant construction
- ✓ Ideal for small and medium treatment plants

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Custom-built to suit channel dimensions
- Available in SS304 & SS316 construction
- Bar spacing from 10–50 mm (or as required)
- J-type design for easy handling & maintenance
- Heavy-duty, corrosion-resistant construction
- Suitable for STPs, ETPs, pump stations & intake channels

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TRASH RAKE



- Manual Trash Rake is a manually operated screening system designed for efficient removal of floating, suspended, and coarse solids from water and wastewater channels.
- Its removable screen panel allows easy lifting, cleaning, and maintenance while protecting pumps and downstream treatment equipment.

Key Benefits

- ✓ Efficient removal of floating and coarse solids
- ✓ Easy manual operation and cleaning
- ✓ No power consumption or moving parts
- ✓ Robust, corrosion-resistant construction
- ✓ Ideal for low-flow and small treatment facilities

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Custom-built to suit channel dimensions
- Available in SS304 & SS316 construction
- Bar spacing from 4–10 mm (or as required)
- Removable screen panel for easy maintenance
- Heavy-duty, corrosion-resistant construction
- Suitable for STPs, ETPs, pump stations & intake channels

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SLUICE GATE



- Sluice Gates are designed for reliable isolation and flow control in water and wastewater treatment applications.
- Engineered for dependable sealing, smooth operation, and long service life under demanding operating conditions.

Key Benefits

- ✓ Reliable flow isolation and control
- ✓ Leak-tight sealing performance
- ✓ Manual and motorized operation available
- ✓ Robust, corrosion-resistant construction
- ✓ Suitable for municipal and industrial applications

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Available in Open Channel & Thimble Mounted designs
- Manufactured in SS304, SS316, MS & CI construction
- Manual handwheel or electric actuator operation
- Custom-built to suit site and process requirements

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AGITATOR



- Agitators are designed to provide efficient mixing and maintain homogeneous conditions in water and wastewater treatment processes.
- They ensure effective suspension of solids, prevent settling, and improve the performance of biological and chemical treatment systems.

Key Benefits

- ✓ Efficient and uniform mixing
- ✓ Prevents sludge settling and dead zones
- ✓ Energy-efficient and reliable operation
- ✓ Low maintenance and long service life
- ✓ Suitable for continuous operation

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Suitable for anoxic, equalization, neutralization & mixing tanks
- Available with SS304, SS316 & MSFRP.
- Custom-designed impeller size and motor rating based on tank dimensions
- Suitable for municipal & industrial water and wastewater application

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CLARIFIER/FLOCCULATOR



- Clarifiers and Clariflocculators are designed for efficient solid-liquid separation in water and wastewater treatment systems.
- They provide effective flocculation, clarification, and sludge collection, ensuring improved treatment efficiency and consistent effluent quality.

Key Benefits

- ✓ Efficient settling and clarification
- ✓ Effective sludge collection and removal
- ✓ Improved treatment performance
- ✓ Low maintenance and reliable operation
- ✓ Suitable for continuous duty applications

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Available as Clarifier and Clariflocculator units
- Efficient sludge scraping & collection mechanism
- Custom-designed to suit required flow capacity and tank dimensions
- Suitable for municipal & industrial water and wastewater treatment plants

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COARSE BUBBLE DIFFUSER



- Coarse Bubble Diffusers are designed to provide effective mixing and aeration in water and wastewater treatment processes.
- They ensure uniform air distribution, prevent solids settling, and deliver reliable performance in applications requiring high mixing intensity.

Key Benefits

- ✓ Effective mixing and circulation
- ✓ Prevents sludge settling and dead zones
- ✓ SS material increases the shelf life of the diffuser
- ✓ Robust and reliable operation
- ✓ Low maintenance and long service life
- ✓ Suitable for continuous and intermittent operation

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Available in Disc & Tubular diffuser designs
- EPDM Disc & Stainless Steel Tubular diffuser options
- High air flow capacity for effective mixing
- Compatible with STPs, ETPs & equalization tanks

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FINE BUBBLE DIFFUSER



- Fine Bubble Diffusers are designed to provide efficient oxygen transfer and uniform air distribution in biological wastewater treatment systems.
- They enhance biological treatment efficiency, reduce energy consumption, and ensure reliable long-term aeration performance.

Key Benefits

- ✓ High oxygen transfer efficiency
- ✓ Uniform fine bubble air distribution
- ✓ Energy-efficient aeration (reduced operating costs)
- ✓ Low maintenance and reliable performance

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Available in Disc & Tube diffuser designs
- EPDM & Silicone membrane options
- High oxygen transfer and aeration efficiency
- Durable, clog-resistant membrane construction
- Compatible with STPs, ETPs & MBBR/Activated Sludge systems

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MBBR MEDIA



- MBBR Media is designed to provide a high surface area for the growth of beneficial microorganisms in biological wastewater treatment systems.
- Its optimized geometry ensures efficient biofilm development, enhanced treatment performance, and stable operation under varying process conditions.

Key Benefits

- ✓ High specific surface area for biofilm growth
- ✓ Excellent biological treatment efficiency
- ✓ Durable and chemically resistant construction
- ✓ Low maintenance and long service life
- ✓ Suitable for new and retrofit installations

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Manufactured from virgin HDPE material
- Available in multiple sizes to suit process requirements
- Suitable for MBBR, IFAS & hybrid biological treatment systems

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MBR MEMBRANE



- MBR Membrane Modules are designed to deliver superior solid-liquid separation in membrane bioreactor (MBR) systems for municipal and industrial wastewater treatment.
- Manufactured using reinforced PVDF membranes, they provide high permeability, excellent fouling resistance, and consistent treated water quality for reuse applications.

Key Benefits

- ✓ Superior filtration with excellent effluent quality
- ✓ High flux for increased treatment efficiency
- ✓ Reinforced PVDF membrane for enhanced durability
- ✓ Excellent fouling resistance and long service life
- ✓ Suitable for water reuse and recycling applications

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Nominal pore size: 0.2 μ
- Design flux: Up to 25 LMH
- High mechanical strength & chemical resistance
- Suitable for submerged MBR systems
- Ideal for municipal & industrial wastewater treatment and water reuse

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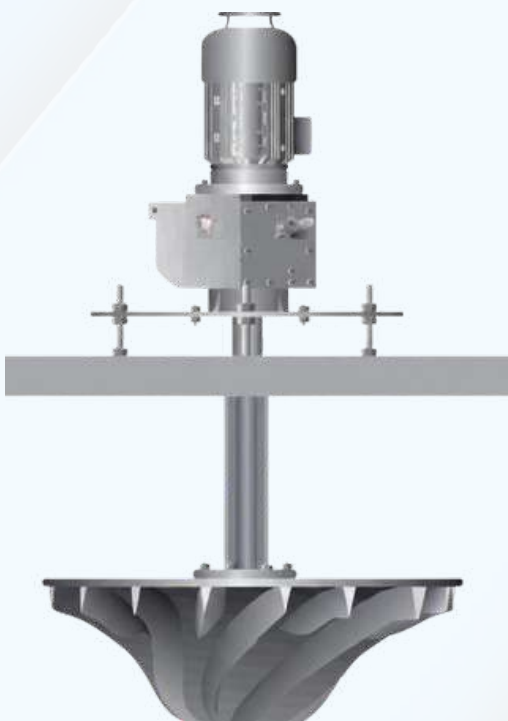
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SURFACE AERATOR



- Surface Aerators are designed to provide efficient oxygen transfer and mixing in biological wastewater treatment processes.
- They enhance dissolved oxygen levels, ensure effective circulation, and support the growth of aerobic microorganisms for improved treatment efficiency.

Key Benefits

- ✓ High oxygen transfer efficiency
- ✓ Uniform mixing and circulation
- ✓ Energy-efficient and reliable operation
- ✓ Low maintenance and long service life
- ✓ Suitable for continuous operation

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Available in fixed and floating mounting configurations
- Suitable for aeration tanks, oxidation ditches & lagoons
- Available in SS304, SS316 & MSFRP materials
- Custom-designed to meet oxygen transfer and process requirements

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OIL SKIMMER



- Oil Skimmers are designed for efficient removal of floating oil, grease, and scum from water and wastewater treatment systems.
- They help improve treatment efficiency by preventing oil carryover and ensuring effective separation before downstream processes.

Key Benefits

- ✓ Efficient removal of oil, grease & scum
- ✓ Improves treatment process efficiency
- ✓ Continuous and reliable operation
- ✓ Low maintenance and energy-efficient design
- ✓ Suitable for municipal & industrial applications

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Belt-type oil skimmer for continuous oil removal
- Available in SS304, SS316 & MSEP construction
- Custom-designed to suit tank dimensions and oil load
- Suitable for STPs, ETPs, oil-water separators & industrial process tanks

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SLUDGE THICKENER



- Sludge Thickeners are designed to increase sludge solids concentration by separating excess water, thereby reducing sludge volume prior to further treatment or disposal.
- Ensures efficient sludge collection & thickening, minimizing handling costs while improving the overall efficiency of the sludge management process.

Key Benefits

- ✓ Efficient sludge thickening and volume reduction
- ✓ Reduces sludge handling and disposal costs
- ✓ Improves downstream dewatering performance
- ✓ Low maintenance and long service life

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Efficient sludge rake and collection mechanism
- Fabricated in SS304, SS316 & MSFRP construction
- Custom-designed to suit tank dimensions and sludge characteristics
- Suitable for municipal & industrial wastewater treatment plants

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SCREW PRESS



- Screw Press is an efficient sludge dewatering system designed to reduce sludge volume by separating water from sludge through continuous mechanical dewatering.
- Its low-speed screw mechanism provides reliable operation, minimizes clogging, and reduces sludge handling and disposal costs.

Key Benefits

- ✓ Continuous sludge dewatering
- ✓ Reduces sludge volume and disposal costs
- ✓ Low power consumption and water usage
- ✓ Self-cleaning design with minimal maintenance
- ✓ Suitable for a wide range of sludge types

WHY CHOOSE US?

- Cost-effective solutions
- Customized designs
- Premium fabrication
- Timely delivery
- Reliable after-sales support

TECHNICAL HIGHLIGHTS

- Available in SS304 & SS316 construction
- Compact, energy-efficient, & low-noise operation
- Custom-designed to suit sludge characteristics and capacity
- Suitable for municipal & industrial wastewater treatment plants

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