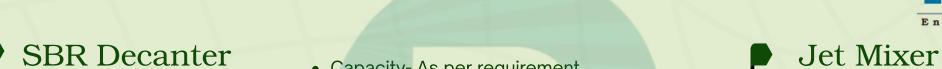
BIOLOGICAL TREATMENT



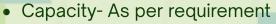






- Size- As per design
- Type- Motorized/floating
- No. of decanter per chamber- 01
- Material of construction- SS304, SS316





- Size- As per design
- Material of construction- SS304, SS316





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- Capacity- As per requirement
- Type- Fixed / floating
- Material MSEP / SS304, SS316

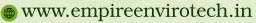




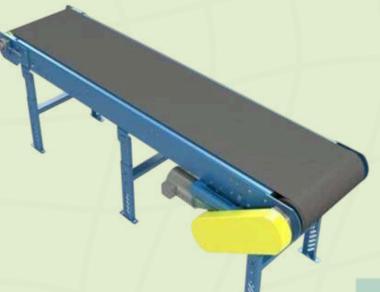
- High oxygen transfer efficiency: Particularly effective in large water bodies.
- Operational versatility: Suitable for diverse applications, including varying water levels and quality.



Improved water quality: Prevent stratification and anaerobic conditions, reducing odors and promoting healthy ecosystems.







 Used in water and wastewater treatment plants to transport materials like screenings, sludge, and other solids.

Flat Belt Conveyor

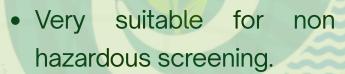
- Very suitable for long distance transportation of screening.
- Installed at the discharge points of the screens & screening conveyed the discharge pit or screw compactor.



- Capacity- As per requirement
- Overall length-As per design
- Width-As per design
- Material of construction-SS304, SS316

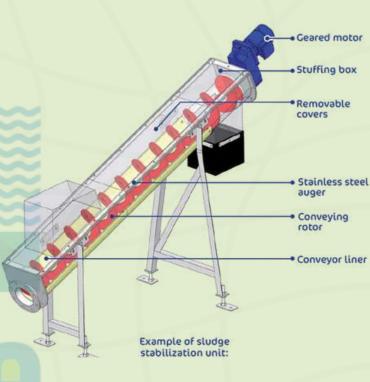
CONVEYOR





This is installed at the discharge points of the screening screens and the to conveyed pit or screw discharge compactor.





- Capacity- As per requirement
- Screw diameter-As per design
- Overall length-As per design
- Inclination angle-As per design
- Material of construction SS304, SS316

 Used in water and wastewater treatment plants to transport materials like screenings, sludge, and other solids.

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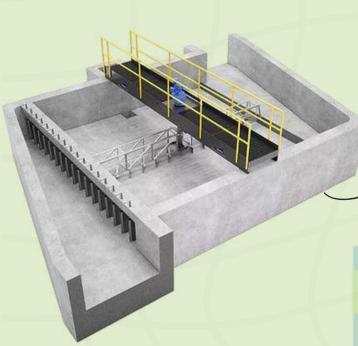


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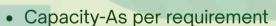
DE-GRITTING







- Scrapper shape- As per requirement (di/tri arm)
- Size- As per chamber
- Grit separation: ≥ 90% for particles up to 200 um
- Screw classifier-shafted/shaftless
- Trough Protection HDPE/UHMWPE
- Material of construction-MSEP/SS304. SS316



- Height- As per design
- Upper chamber diameter-As per design
- Lower hopper diameter-As per design
- Detention time- 20-30 Second
- Removal efficiency- 85 to 95 %
- Material of construction-MSEP / SS304, SS316

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Vortex Type Grit Chamber



DE-GRITTING

Grit Washer

Mini Unit

Combo Unit

~Whirling motion created by blower separates grit from organic material using the principle of gravity.

- Capacity-As required
- Screw dia-As per design
- Shaft-shafted/ shaftless
- Drive -As per requirement
- Grit separation ≥90% upto 200µm
- Trough Protection-HDPE/ UHMWPE
- Material of construction- MSEP / SS304, SS316

~Represents the most economical solution to treat low flow rates for screening and grit removing.

~Used for the separation and cleaning of sandy material from wastewater.

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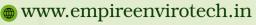


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DISC DIFFUSERS











9" fine bubbles disc diffuser with **FPDM** membrane



12" fine bubbles disc diffuser with EPDM/ FPDM+PTFF membrane



9" fine/medium bubbles disc diffuser with silicone membrane



12" fine bubbles disc diffuser with silicon membrane



5" coarse bubbles diffuser with **FPDM** membrane

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TUBE DIFFUSERS



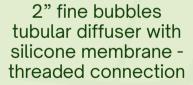






3" fine bubbles tubular diffuser with silicon membrane threaded connection

2"/3" fine bubbles tubular diffuser with EPDM membrane clamp connection





3" medium bubbles tubular diffuser with FPDM membrane threaded connection



AISI 316 coarse bubble tubular diffuser

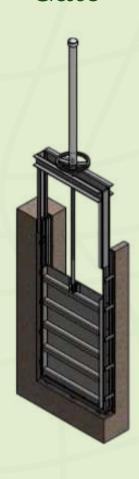




FLOW CONTROL GATES



Wall Mounting Gate

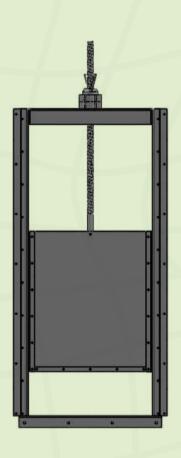


- Mounting-Wall / channel mounted
- Size- As per requirement
- Sealing- Metal-Metal & Metal-Non metal
- Water heads- till door depth (seating/ unseating)
- Material of construction- SS304. SS316, Alu
 - Can be operated manually, electrically, pneumatically, hydraulically as per client demand.

- A sluice gate helps to control water flow and water levels.
- When lifted or lowered the gate, it changes how fast and how much water moves in a channel or pipe.
- This helps stop floods, send water where it is needed, and keep water at safe levels.

FLOW CONTROL GATES

Open Channel Gate



- Mounting-Wall / thimble mounted
- Size As per requirement
- Sealing- Metal-Metal & Metal-Non metal
- Water heads- up to 35mm
- Material of construction- SS304. SS316.Alu

 Can be operated manually, electrically, pneumatically, hydraulically as per client demand.

- To isolate/ control water flow through open channel/ in the chamber.
- Mounted between two parallel walls of open channel or at the end of the channel to control the flow from the chamber.

MEMBRANE

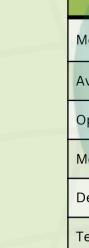
MBR Membrane

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SPECIFICATION	RANGE	
Membrane Material	Reinforced PVDF	
Avg. Pore Size	0.06µm	
Operation pH	5 to 7	
Membrane ID &OD	0.9&2.0mm	
Design Flux	12-32LMH	
Temperature	10-45degree	
Produce Water	Tur.<10NTU SS<5mg/l	



MODEL	HMTB-MBR-10	HMTB-MBR-15	HMTB-MBR-30	HMTC-MBR-10
Element size(mm)	1 <mark>05</mark> 0X45X625mm	1505X45X625mm	2000X38X1250mm	1300X40X710mm
Connection(mm)	ø 32	ø 32	ø 24	ø 12.7
Area (Sq.m)	10	15	32.5	10

MEMBRANE

REINFORCED PVDF MEMBRANE







20" Jumbo Material: PVDF

- Flow: 1000 -1500 LPH
- Maximum Operating Pressure : 2.0 bar
- Backwash: Manual/Automatic
- In/Out connections: 1" & 1.5"







Applications:

- Surface water
- Borewell
- Turbidity
- Sand dust removal

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PRIMARY & SECONDARY TREATMENT

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Clarifier



~ Settling tanks designed to separate solid particles from wastewater using gravity.



Sludge Thickener



- Capacity- As per requirement
- Size- As per design
- Shape- Rectangular/circular
- RPM- 0.03
- Drive- DH, CM / Turn table
- · Walkway bridges- half & full
- Material of construction- MSEP/SS304, SS316

Clariflocculator



~Combined unit that performs both flocculation and clarification processes to remove suspended solids from wastewater.

PRIMARY & SECONDARY TREATMENT

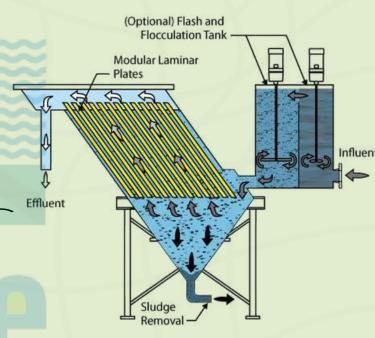
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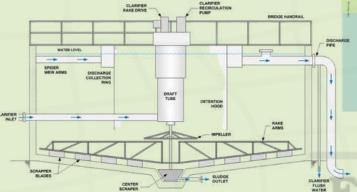
High Rate Solid Contact Clarifier

- Capacity- As per requirement
- Size- As per design
- Shape- Circular
- Impeller RPM- 3 to 8
- Scraper RPM- 0.03
- Drive- Dual drive
- Walkway bridges- half & full
- Material of construction- MSEP/SS304, SS316









- Capacity- As per requirement
- Size- As per design
- Shape- Rectangular/conical
- Tube/plate angle- 55-60 deg.
- Scraper speed- 0.03 m/s
- Material of construction- MSEP/SS304, SS316

MECHANICAL SCREENS

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Multi Rake Screen

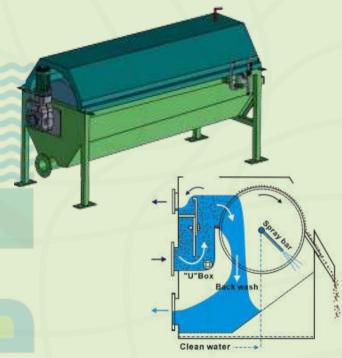


- Bar size-50x10/50x8
- Screen width-As per requirement
- Screen height-As per requirement
- Material of construction-SS304, SS316

Step Screen







- Bar spacing-2mm to 6mm
- Screen width-As per requirement
- Screen height-As per requirement
- Material of construction-SS304, SS316
- Perforated dia. size-0.5mm to 6mm
- Type-Externally feed/Externally feed
- Drum dia.-As per requirement
- Drum length-As per requirement
- Material of construction-SS304, SS31

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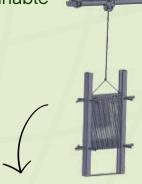
MANUAL SCREENS

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Trace Rake

- Bar spacing-50mm to as required
- Lifting arrangement-manual & pulley
- Tank size variable



- Channel width & depth -as required
- Material of construction-carbon steel / SS304, SS316

J-Type Screen

• Bar spacing-20mm to as required



- Wedge wire slot size-0.25mm to 7mm
- Drum dia.- As per demand
- Screen field length-Depends on data
- Compactor- on request
- Material of construction-SS304, SS316



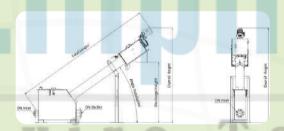
- Opening-500 to 2000mm
- Material of construction-SS304, SS316

Wedge wire slot size -0.25mm - 1.5mm

Hyperbolic Screen

No power required





- · Bar spacing-6mm to as required
- Screen width & height-as required
- Material of construction-SS304, SS316





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OIL & GREASE SKIMMER

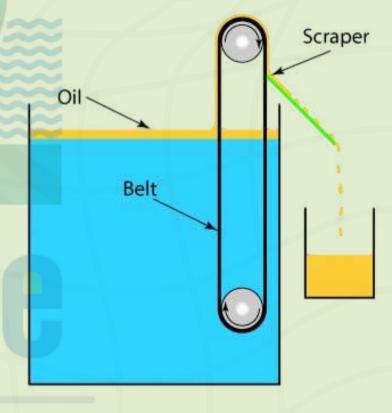
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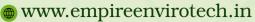


Belt Type Skimmer



- Type- Belt skimmer
- Material of construction- MSEP, SS
- Belt skimmers lift and remove unwanted floating tramp oils from the surface of metalworking coolants, parts of washing machines, pressure spray operations, oil leakage pits, wastewater, and water treatment tanks, pits, sumps and wells.







Mixer



- Capacity- As per requirement
- Type- One / both end fixed
- RPM- As per design
- Material of construction- MSEP / SS304, SS316

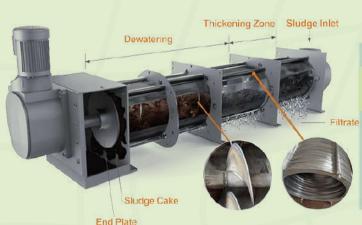
- A motorized mixing equipment used for the mixing of chemical in chemical, flocculation or digester chamber
- Widely employed in industries such as chemical, food, pharmaceutical, and cosmetic manufacturing.

SLUDGE TREATMENT









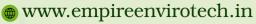
Screw Sludge **De-watering Press**

- High dewatering efficiency
- Suitable for large-scale, continuous operations
- Energy efficient
- Low maintenance
- Compact design
- Environmentally friendly

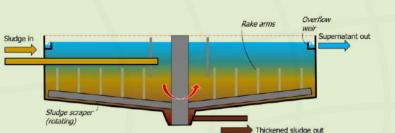


- Capacity (flow)- As per requirement
- Dry Sludge- As per design
- Min. Sludge Concentration- 10 gm/Ltr.
- Type- Single Screw, Double Screw & Triple Screw
- Moisture-Less than 80%
- Material of construction SS304, SS316

SLUDGE TREATMENT







Sludge Thickener

- Reduces sludge volume
- Lowers processing, disposal, and transport costs
- Improves handling and treatment efficiency
- Enhances dewatering performance
- Supports resource recovery
- Minimizes environmental impact



- Capacity- As per requirement
- Size- As per design
- Shape- Rectangular/circular
- RPM- 0.03
- Drive- DH, CM / Turn table
- Walkway bridges- half & full
- Material of construction-MSEP/ SS304, SS316

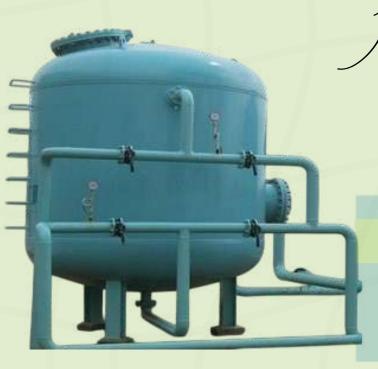




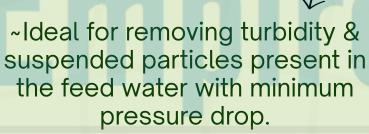
Dual Media Filter

~Ideal for filtration of water having very fine suspended matter like mud, dust particles
And biological growth.

Pressure Sand Filter



- Capacity- As per requirement
- Plate thk- As per design
- Material of construction-MSEP/FRP



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TERTIARY TREATMENT





~This effectively process eliminates chlorine, organic compounds, pesticides, and even some heavy metals, improving the taste, odor, and overall quality of the water.

Activated Carbon Filter

~Bed consisting of pebbles & gravels with a distributor at top to distribute the incoming water across the filter & an underdrain system for the collection of filtered water.



- Capacity- As per requirement
- Plate thk- As per design
- Material of construction-MSEP/FRP

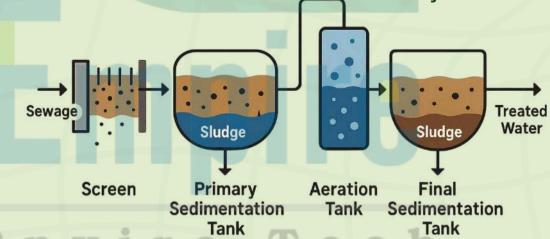






- Capacity range- As per requirement
- Air blowers- As per design
- Material of construction- MSEP, SS
- Size- As per data
- Head loss- Very less
- Chemical dosing system- Yes
- Oil & Grease removing basin- Optional
- Permeate- As per PCB

 Designed to bring the treated sewage parameters (BOD, COD, TSS, TN etc.) below the permissible limit which is stipulated by the Pollution Control Board. MBBR technology is used in this system.









- Capacity range- As per requirement
- Air blowers- As per design
- Material of construction- MSEP, SS
- Size- As per data
- Head loss- Very less
- Chemical dosing system- Yes
- Oil & Grease removing basin- Optional
- Permeate- As per PCB



