AARVI ENERGY FILTREX & ENVIRONMENTAL SOLUTIONS



Address: Gat No. 869/4, A/P- Dugaon, Tal- Chandwad, Dist-Nashik-423104 (Maharashtra)

Ref.No.

Technical Specifications For Submerged Membrane Bioreactor system

Description: A lab-scale submerged membrane bioreactor (SMBR) system is a miniature version of a larger wastewater treatment system that utilizes membranes for separation.

Benefits of using a lab-scale SMBR system:

- **Research and development:** It allows researchers to evaluate the effectiveness of SMBR technology for treating various types of wastewater streams.
- **Process optimization:** By varying factors like aeration rate, sludge wasting strategy, and membrane characteristics, researchers can optimize the treatment process for specific wastewater.
- **Compact and versatile:** These systems are relatively small and can be easily set up in a laboratory for various research applications.
- **Simulates full-scale systems:** Lab-scale SMBRs mimic the operation of larger treatment plants, allowing for pilot testing and data collection before implementing the technology at a larger scale.

Sr. No.	Technical Description	Quantity
1	Aeration tank & Treated water tank	1
	MOC: Transparent Acrylic Sheets	
2	Diaphragm Blower pump	1
	(Power: 18W, Pressure: 0.020MPa, Output: 38L/min Air)	
3	Peristaltic Pump	1
	(Permeate/Backwash)	
	230VAC Single Phase, Stepper motor, 4 Roller, min flow: 14	
	ml/min; max flow: 450 mL/min; RPM: 5 to 160; Bidirectional	
	control: Yes	
4	Control switch board	1
	Type: Manual, 3 Switch	
5	Diffuser	2-Lot
	(3'-inch Air Oxygen Bubble Disk, (2 Stones))	
6	Aeration piping	1-Lot
	(PP)	
7	Permeate/Backwash Piping	1-Lot









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	(PP)	
8	Flat sheet membrane modules	1 Lot
9	Screening Plate	2 Nos.
	(MOC: Derlin, Thickness: 5 mm)	



MBR System

Note*: Customized dimensions based setup is available

Contact us:

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