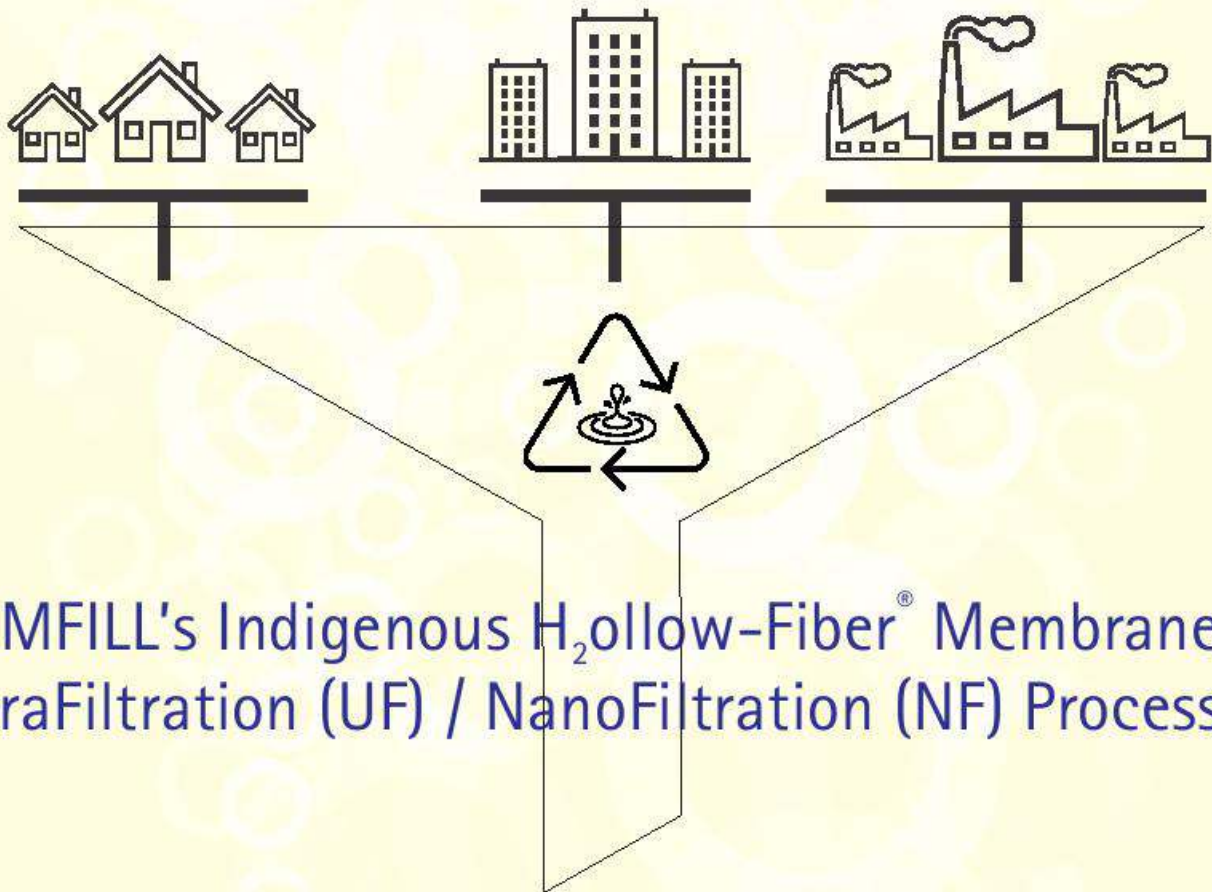


# Wastewater 2 Reuse & Resource Water



Treated Water for: Chemical, Textile, Leather, Pharma industrial processes,  
Drinking Water, Irrigation, Recreational reuse purposes



# Memfill's Indigenous H<sub>2</sub>ollow-Fiber<sup>®</sup> Membrane Technology

- > Ultrafiltration (UF)
- > Nanofiltration (NF)
- > Membrane Bioreactor (MBR)
- > Customizable Turnkey Process Solutions

## Hollow Fibers | Cartridges | Systems

A great choice for industrial water/wastewater treatment applications

We expertise in manufacturing a wide range of hollow fiber membranes which can be utilized to help various businesses meeting customers sustainability goals in the water & wastewater treatment





## ABOUT US

MEMFILL TECH PRIVATE LIMITED (MEMFILL) was incubated in 2014 at Karaikudi, Tamilnadu with the support of "entrepreneurs seed fund" from Tiruchirappalli Regional Engineering College -Science and Technology Entrepreneurs Park (TREC-STEP) & Department of Science & Technology (DST), Govt. of India. MEMFILL is expertise in indigenous membrane technologies and manufacturing hollow fiber membranes for water, wastewater and water reuse applications covering several industries such as chemical, oil/paint & gas, textile, leather, pharma, etc.

## MEMBRANE TECHNOLOGY & PRODUCTS

Our extensive R&D activities have resulted in indigenously producing a range of high quality and durable hollow fiber membrane. MEMFILL has know-how in the design of polymer hollow fibre membranes (HFM) and they are filtering from outside-to-inside (Out-In) and also inside-to-outside (In-Out) depending on design requirements. MEMFILL's HFMs not only provide excellent separation of raw and filtered water but also superb retention of several micro-organisms and impurities. Our proprietary membrane technology ensures a constant and nearly-perfect water quality regardless of the variations in the quality and turbidity of the water to be treated

## TAILOR-MADE TURNKEY PROCESS SOLUTIONS

MEMFILL offers innovative process know-how of tailor-made turnkey process solutions to markedly reducing the operating expenses to addressing pressing issues regarding wastewater treatment in textile, oil/paint, chemical and other industries

## MEMFILL's UNIQUENESS

- Employs proprietary hollow fiber membrane technology & process know-how
- Manufacture Hollow Fiber Membranes in India
  - Supports 'Make in India' & 'Made in India'
- Membranes with special characteristics can be made to address specific issues
- Less-Chemicals or Chemicals-Free Pre-treatment processes that reduces OPEX
- MF, UF and NF membrane systems for removing suspended and dissolved solids from various water sources
- Hybrid Process (Electro-Oxidation combined with UF) for treating textile industry dyes
- 2-step UF/NF processes for separating 2-4 components in the Chemical industry and for treating the oil/ emulsion waste without chemical regenerants in a small footprint

## QUALITY & SERVICE

MEMFILL provides its clients superior technologies and products with high standards in terms of reliability, quality and competitiveness & offers the best after-sales service. MEMFILL considers providing pilot units for feasibility tests to tailor customer's needs; installation, monitoring, and result analysis

## OUR PRODUCT PORTFOLIO

### MBR PVDF Hollow Fiber Membrane Module

(For municipal, industrial, and water reclamation applications)

- Proprietary Membrane Technology
- Durability & Chemical Stability
- Better Performance
- Good Retention
- Small Footprint
- Low Energy Consumption
- Reliability & Sustainability



### UF PES/PVDF Hollow Fiber Cartridges (Industrial)

(Ideal for municipal water, wastewater, RO pre-treatment & Industrial wastewater)

- Proprietary Membrane Technology
- Uniform & Durable Hollow Fibers
- Consistent Pore Distribution
- High Temperature & Chemical Resistant
- Excellent Permeability
- Low Fouling
- Low Energy Consumption
- Low Operating Pressure



### UF PES Hollow Fiber Cartridge (Commercial/ Residential)

(For City Water/ Bore Water/ Surface Water)

- Indigenous & Durable Hollow Fibers
- High Flux up to 900 lph
- Filters Suspended Solids, Virus & E-coli
- Customizable Design
- Easy to Install & Replace
- Easy to do Backwash
- Very Low Maintenance



### Effluent Treatment Plant (ETP)

MEMFILL offers unique solutions via activated sludge process using an advanced-membrane technology with small foot print for reducing BOD, COD, Color, Nitrogen and Toxic level of the effluent



### Sewage Treatment Plant (STP)

MEMFILL has a physical, chemical, and biological processes to remove contaminants from textile, pharma, chemical, paper, tannery, oil and electro-chemical industries and produce treated wastewater that is safe enough for release into the environment



### Silica Removal Plant (SRP)

Tight UltraFiltration (TUF) hollow fiber membranes are designed and developed to effectively treat the wastewater for Silt Density Index (SDI) reduction & Colloidal Silica removal aside the normal filtration process



### Desalination Plant (DP)

MEMFILL's proprietary HF membrane technology + RO process to treat saline-water to provide high-quality drinking water for valued customers as per their requirements





The majority of global wastewater about 80% is released to the environment without adequate treatment which impacts not only health outcomes but also has severe negative linkages with combating Climate change.

Worldwide, wastewater should be considered valuable as water resources become scarce; however, it is often seen as a burden to be disposed of. MEMFILL intends to change this perception.

MEMFILL's sustainable business goal primarily focuses adequate filtration treatment and safe reuse of wastewater treated from different industrial/ commercial/ residential sources using its 'indigenous hollow fiber membrane processes and products'.

## MEMFILL TECH PRIVATE LIMITED

Manufacturer of Indigenous Hollow Fiber Membranes/Cartridges & Customized Solutions Provider



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