



**GREEN SOLUTIONS**



**GLOBAL OUTLOOK**



**INNOVATIONS**



**RESEARCH AND DEVELOPMENT**



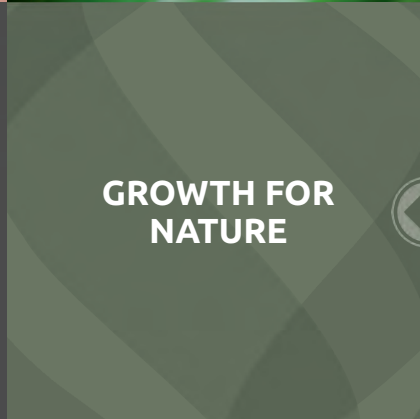
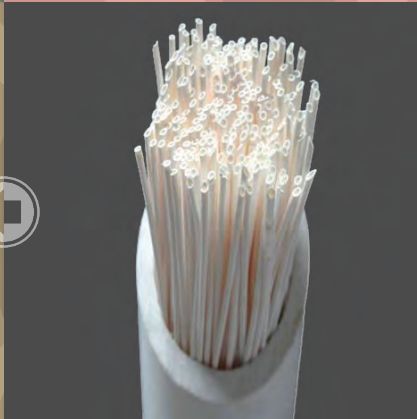
**ETHICS AND INTEGRITY**



**CONNECT WITH NATURE**



**INVENTIONS TO PURIFY**



**GROWTH FOR NATURE**



# Green Chemistry Clean Planet

At Technorbital, we work towards adding value to water. Using water, Treating water, Conditioning water, Recycling Water and Reusing water-making every effort to ensure that the use of fresh water is minimized by removing pollutants from water to make it pristine and pure, the way it naturally is.

We are committed to green chemistry, Research and Development, improvising existing Treatment Plants and identifying synergies between various treatment technologies.

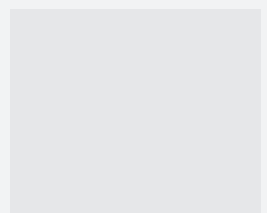
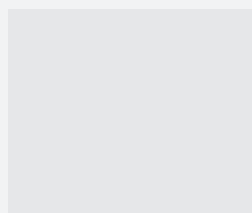
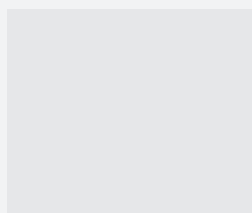
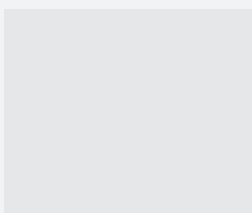
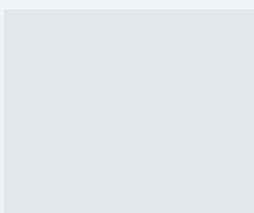
Our Membrane division at Kanpur, India has a state-of-the-art Manufacturing facility spread over 120,000 ft<sup>2</sup>, integrated from raw material storage till membrane packaging all under 1 roof.

The facility is also equipped with a Research & Development center and a QC lab to ensure continuous product improvement as well as consistency of latest specifications. Technorbital is one of the few membrane manufactures with An ISO 9001:2000 certified Quality Management System.

GRAFIL from Technorbital connects our innovations, experience, commitment to offer low cost simple solutions to our global customers and we are blessed that our products have over 4000000 satisfied users.



## TECHNORBITAL - GREEN SOLUTION FOR BLUE REVOLUTION



## Product Range

### GRAFI ULTRAFILTRATION MEMBRANE

The Ultra Filtration products are:

- ♦ **Energy Efficient** : 'PolyNorbit' the unique polymer supports 0.02 micron filtration with less feed pressure and no need of air blower.
- ♦ **Low Fouling** : Highly hydrophilic polymer results in Low fouling.
- ♦ **No Aggressive Chemical** : Unique polymer structure allows cleaning with mild cleansers like household citric acid and baking soda. **No HCl No NaOH**
- ♦ **Strong** : Our asymmetric fiber with no reinforcements supports out→In filtration, thus no air scouring need.

### GRAFI NANO-FILTRATION (NF) MEMBRANE

The Nano Filtration membrane find application in:

- ♦ **Lower Feed Restriction** : Hollow Fiber, Out-In filtration can support greater tolerance to particles in feed.
- ♦ **Selectivity** : Some essential ions do pass there by offering flexibility to process design engineer.

### GRAFI SOFTWARE

- ♦ Our in-house software that's programmed with our knowhow in membrane application guides the right product selection and system integration.
- ♦ It generates schematics and key material list with specifications to enable OEMs supply correct process and design.

### GRAFI MBR MEMBRANE

Our MBR Modules support:

- ♦ **High Temperature** : As long as your design Biology supports, our "PolyNorbit" can be used upto 39°C operation yet deliver < 3 SDI
- ♦ **More Tolerant** : Though not recommended from biology perspective, occasional oil up-to 50 ppm does not affect MBR operation.
- ♦ **Low Fouling** : Highly hydrophilic fiber results in Low fouling.
- ♦ **High Tensile strength** : Enables submerged operation as well as external membrane aeration for membrane.

### GRAFI PROCESS SEPARATION MEMBRANE ELEMENTS

For specialty applications used in Industry where focus is product not a pollution, our cross flow specialized fibers support:

- ♦ Concentration
- ♦ Separation based on Molecular weight
- ♦ Product Recovery
- ♦ Oil Removal

### GRAFI TECH TOOL

Technorbital believes in promise delivery at customer premises and not just product. We support OEM & Customers with:

- ♦ O&M Manual
- ♦ Remote Monitoring & Advise
- ♦ Warranty
- ♦ Log Sheets
- ♦ Spares
- ♦ Training Notes

www.technorbital.com



An ISO 9001:2000 Certified Company

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Made in **India**



Ready to serve **the World**



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