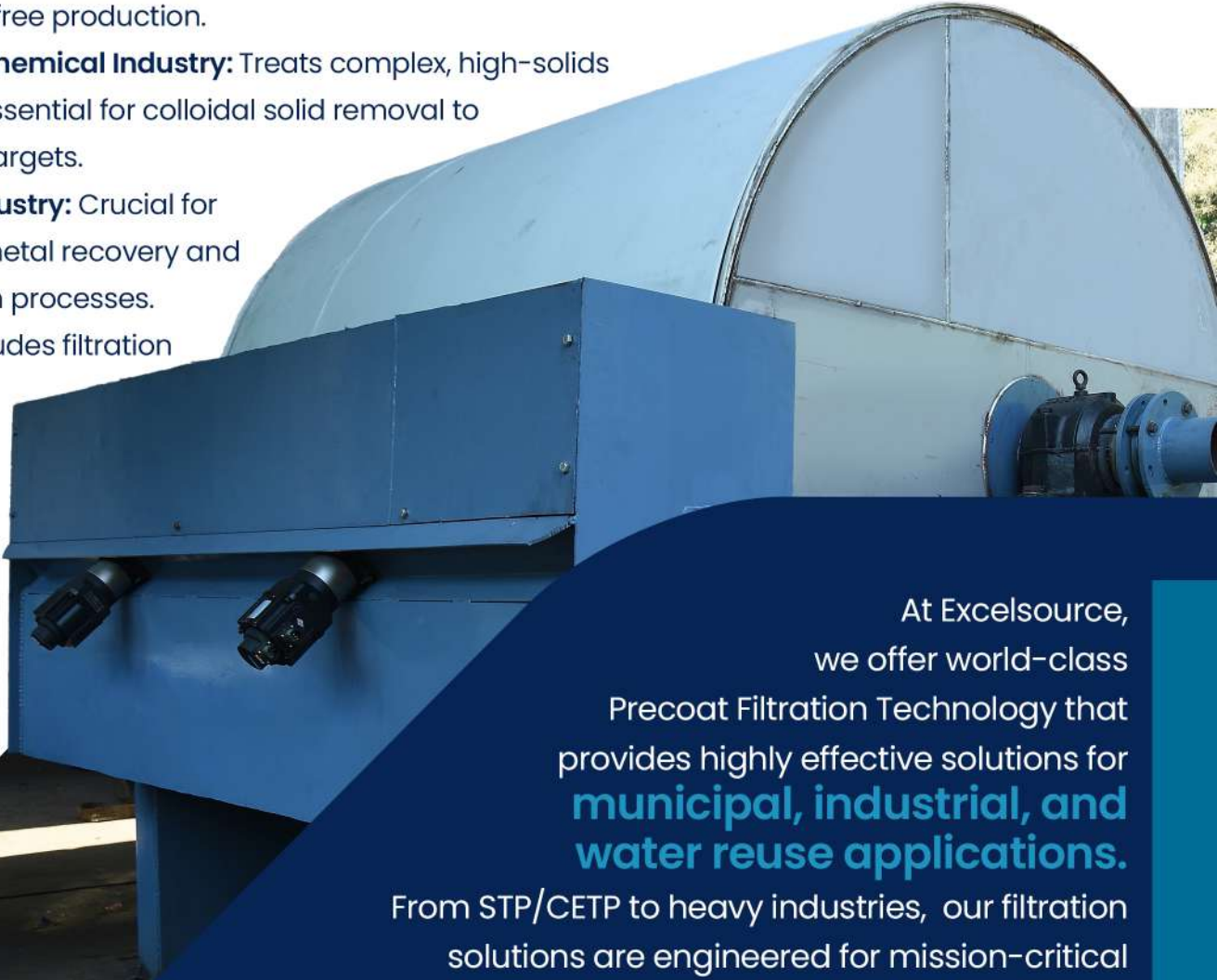


Key Features

- **High-Flux Filtration:** Our systems deliver sub-micron clarity to ensure efficient separation of fine and colloidal solids, even when conventional filters fail.
- **Fully Automated Technology:** Advanced PLC-based automation ensures continuous, high-performance operation with minimal human intervention.
- **Durable and Corrosion-Resistant:** Built with high-grade materials to withstand even the harshest industrial environments, ensuring long-lasting performance.

Core Applications

- **Municipal (STP/CETP) & Water Reuse:** Enables safe discharge and supports direct water reuse programs.
- **Food & Beverage:** Enhances process refinement, achieving high product clarity for chemical-free production.
- **Heavy & Chemical Industry:** Treats complex, high-solids effluents essential for colloidal solid removal to meet ZLD targets.
- **Mining Industry:** Crucial for precious metal recovery and purification processes.
- **Other:** Includes filtration for paper de-inking, edible oils, and black liquor treatment.



At Excelsource,
we offer world-class
Precoat Filtration Technology that
provides highly effective solutions for
**municipal, industrial, and
water reuse applications.**

From STP/CETP to heavy industries, our filtration
solutions are engineered for mission-critical
applications, ensuring precision and performance at
every stage.

How It Works:

EXCELSOURCE FILTRATION

Vacuum Precoat Technology

- **Precoat Filtration Mechanism:** Using Diatomaceous Earth on a rotating vacuum drum, this filtration method forms a high-surface-area barrier with true depth filtration capabilities.
- **Micro-Shaving for Purity:** A precise knife removes spent cake (as thin as 20µm) to maintain a fresh, effective filtration surface.
- **Constant Internal Vacuum:** Ensures that the filter cake remains intact, preventing media migration and maintaining filtration stability.

Operational Benefits

- **Asset Protection:** Extends the life of RO/UF membranes and reduces scaling/fouling in process equipment.
- **Sludge & Waste Reduction:** Produces denser, drier waste, cutting disposal frequency and costs.
- **Chemical Optimization:** Achieve 20–30% savings by reducing the use of expensive coagulants and flocculants.
- **Maximized Uptime:** Automation reduces maintenance and downtime, ensuring continuous production.

Proven Success Across Industries

Global Deployment

Successfully
deployed in India,
Philippines, Kenya,
and Sudan.



High Efficiency

>99% high-solids
capture efficiency
in real-world
applications.



Excelsource's Precoat Filtration Technology has been successfully implemented in a wide variety of sectors, including mining, agro-processing, food & beverage, and pharma industries. Our technology ensures compliance with the most stringent regulatory standards globally, while offering cost-effective solutions that drive long-term operational success.