



# MICROBIAL TECHNO INDUSTRY

Advanced Cleanroom & Laboratory Solutions



[www.microbialtechno.com](http://www.microbialtechno.com)



Ministry of MSME, Govt. of India



MSME (Udyam) Registered Enterprise | GeM Registered Seller

# About Microbial Techno Industry

Microbial Techno Industry is a specialized manufacturer and solution provider of cleanroom and laboratory equipment, delivering GMP-compliant, precision-engineered systems for pharmaceutical, biotechnology, healthcare, and research environments.

Our strength lies in combining real laboratory exposure with advanced cleanroom engineering expertise, enabling us to design solutions that are practical, reliable, and performance-driven.

## Our Journey

The foundation of Microbial Techno Industry was laid in 2023 through focused research into laboratory workflows and cleanroom performance requirements.

In 2024, this knowledge was applied to real-world projects, driving practical problem-solving and design refinement.

In 2025, backed by proven solutions and field experience, Microbial Techno Industry was formally established to deliver dependable and compliant cleanroom systems.

## Our Solutions

We provide end-to-end cleanroom and laboratory equipment solutions, including:

- Laminar Air Flow (LAF) Workstations
- Pass Boxes (Static & Dynamic)
- Biological Safety Cabinets
- Air Shower & Cleanroom Accessories
- Sampling & Dispensing Booths

## Industries We Serve

Pharmaceutical • Biotechnology • Healthcare • Hospitals • Research Laboratories • Food & Nutraceuticals • Electronics & Precision Manufacturing

## LAMINAR AIR FLOW (LAF)



- A multi-stage filtration system with pre-filter (5–10 micron).
- HEPA (0.3 micron) ULPA (0.12 micron) – optional
- Uniform laminar airflow:  $0.45 \pm 20\% \text{ m/s}$
- SS work zone with powder-coated MS / SS outer body
- Advanced digital controller for blower, UV & lighting
- UV sterilization, LED lighting & low-noise blower integrated

All equipment is designed & manufactured in compliance with ISO & GMP guidelines.

- Sizes: 2×2×2 | 3×2×2 | 4×2×2 ft  
(Custom sizes available)

## REVERSE LAMINAR AIR FLOW (RLAF)



- A multi-stage filtration system with pre-filter (5–10 micron).
- HEPA Filter (0.3 micron) ensures vertical reverse laminar airflow
- Provides vertical reverse laminar airflow for product protection during material handling and storage.
- SS 304 inner chamber with powder-coated MS / SS outer body
- Advanced digital controller for blower & operational control
- LED illumination & low-noise blowers.

All equipment is designed & manufactured in compliance with ISO & GMP guidelines.

- Sizes: Standard & Custom sizes available

# CEILING SUSPENDED LAMINAR AIRFLOW



- A multi-stage filtration system with pre-filter (5–10 micron)
- Ceiling-mounted unit providing unidirectional vertical laminar airflow
- Ensures particle-free clean zone over critical process areas
- High-efficiency HEPA filter / optional ULPA filter
- Uniform airflow velocity  $0.45 \pm 20\% \text{ m/s}$
- Designed for area protection, not material transfer
- SS 304 / powder-coated MS / SS construction for GMP compliance
- Low-noise, energy-efficient blower system
- Available in standard and custom sizes

# AIR SHOWER



- Effectively removes dust & contaminants from personnel before cleanroom entry
- High-velocity air jets with HEPA filtration (0.3 micron)
- Automatic interlocking doors prevent cross-contamination
- SS 304 inner chamber with powder-coated MS / SS outer body
- Advanced digital controller for cycle time, door & blower control
- Integrated LED lighting, low-noise blowers & safety sensors
- Sizes: Single Person | Double Person | Tunnel Type  
(Custom sizes & configurations available)

# BIOLOGICAL SAFETY CABINET (BSC)



- Class II A2 & Class II B2 available
- A multi-stage filtration system with pre-filter (5–10 micron).
- Dual HEPA filtration (0.3 micron) for supply & exhaust air
- SS 304 work zone with powder-coated MS / SS outer body
- Advanced digital controller for airflow monitoring & safety
- UV sterilization, LED illumination & low-noise blower integrated

All equipment is designed & manufactured in compliance with ISO & GMP guidelines.

- Sizes: 2×2×2 | 3×2×2 | 4×2×2 ft  
(Custom sizes available)

## PASS BOX (STATIC AND DYNAMIC)



- Designed for safe material transfer between controlled cleanroom areas
- Available in Static & Dynamic (with HEPA filtration) models
- Interlocked doors to prevent cross-contamination
- SS 304 inner chamber with powder-coated MS / SS outer body
- Advanced digital controller with door status & safety interlock
- Dynamic model with HEPA filter (0.3 micron) & low-noise blower
- Options: UV sterilization, LED lighting & audio/visual indicators
- Sizes: Standard & Custom sizes available

## POWDER SAMPLING BOOTH



- Safe & contamination-free powder sampling in controlled cleanroom environments
- HEPA filtered vertical downflow ensuring product & operator protection
  - Negative pressure design to prevent powder escape
  - High-efficiency HEPA filtration (0.3 micron)
  - Premium SS 304 / SS 316 internal construction
  - Low noise, energy-efficient.
  - User-friendly digital control panel
  - Available in standard and custom-built sizes

## POWDER DISPENSING BOOTH



- Advanced containment solution for safe and precise powder dispensing in GMP cleanroom areas
- High-performance HEPA filtered vertical downflow ensuring superior dust control
- Negative pressure design for maximum operator and environmental protection
- Pharmaceutical-grade SS 304 / SS 316 construction with seamless finish
- Enhanced safety with intelligent digital control system
  - High-efficiency HEPA filtration (0.3 micron)
  - Custom-engineered designs available to suit specific application needs

# GARMENT STORAGE CABINET



- Designed for cleanroom garment storage
- SS 304 inner chamber with powder-coated MS / SS outer body
- HEPA filtered air circulation (0.3 micron)
- Maintains cleanliness of garments
- LED lighting & low-noise blower
- Options: Static / Dynamic models
- Uniform air distribution ensures dust-free garment storage
- Integrated pre-filter & HEPA system enhances garment life
- Ergonomic design suitable for GMP & ISO-classified cleanrooms
- Sizes: Standard & Custom sizes available

## Air Filtration Solutions for Cleanrooms



We supply high-efficiency HEPA & ULPA filters designed for critical cleanroom, pharmaceutical, laboratory, and healthcare applications to ensure superior air purity and contamination control.

- Pre-filters supplied for coarse particle removal, enhancing HEPA / ULPA filter life
- HEPA (H13 / H14) & ULPA (U15 / U16) filtration options
- Low pressure drop with high dust holding capacity
- Suitable for LAF, BSC, Pass Box & cleanroom ceiling terminals
- Standard & custom sizes available

# Cleanroom Equipment Maintenance Services

**We provide complete maintenance services for:**

- Cleanroom Equipment
- LAF (Laminar Air Flow)
- RF (Reverse Laminar Flow)
- BSC (Biological Safety Cabinet)

## Maintenance Includes:

- Preventive, Corrective & Breakdown Maintenance
- HEPA Filter Integrity Testing & Replacement Support
- Blower, Controller & Electrical System Servicing
- On-site Inspection & Performance Verification
- AMC & CMS Support with Service Reports

- ✓ GMP / Cleanroom Compliant
- ✓ Trained Service Team
- ✓ Reliable On-site Support

## Cleanroom Accessories

- Cleanroom Garment Storage Cabinets
- Step-over benches & SS furniture
- Air Curtains & Cleanroom Doors
- Sticky mats, View panels & Utility accessories
- Designed to meet GMP & cleanroom standards

## Our Contact



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