

# From concept to commissioning complete lab infrastructure solutions



**SUDHA**  
ANALYTICALS

Your Lab | Your Safety | Our Concern



## Fume Hood – first line of protection

We understand that safety is the foundation of every successful laboratory. Our fume hoods are engineered to provide maximum protection to laboratory personnel, equipment and the environment by effectively capturing and exhausting hazardous fume & vapours.

With over one decade of expertise in laboratory infrastructure, Sudha Analyticals has developed fume hoods that combine robust design, advanced airflow technology and international safety standards, making them the preferred choice for chemical laboratories.

Bench top | Distillation | Walk-in

### Key features

#### Design

- Aerodynamic design – Ensures smooth airflow and maximum containment.
- Fabricated with chemical-resistant materials such as epoxy-coated steel, stainless steel and specialized liners for durability.
- Vertical and horizontal sash options with counter balanced mechanisms for smooth and reliable operation.
- Customizable configurations – Available in multiple sizes, finishes and material options to suit varied lab requirements.

#### Safety

- Hazardous fume containment – Effectively captures and exhausts toxic vapours and gases.
- Airflow monitoring systems – Optional sensors and alarms alert users for unsafe airflow or sash conditions.
- Corrosion resistance – Designed to withstand aggressive chemicals, ensuring long-term protection of both equipment and users.
- Regulatory compliance – Built and tested to meet global safety norms.

#### User

- Ergonomic workspace – Spacious interiors and optimized work surface height for comfort and ease of use.
- Low noise operation – Engineered for a quieter, more comfortable working environment.
- Energy efficiency – Available in Constant air volume and Variable air volume models.
- Comprehensive annual maintenance contract– Dedicated service support ensuring consistent safety and reliability year after year.

# Laboratory Furniture – engineered for performance & safety

Laboratories today demand more than just functional workspaces. They require environments that are safe, ergonomic, adaptable and durable to support intensive scientific research. At Sudha Analyticals, we specialize in the design and manufacturing of world-class laboratory furniture systems, engineered to international standards and tailored to client-specific requirements.

Our solutions cater to a wide spectrum of laboratories in chemical industry. With an emphasis on safety, efficiency and sustainability, our laboratory furniture provides the perfect balance of form and function.

C-Frame | H Frame | Plinth-Mounted

- |                            |                             |                       |                     |
|----------------------------|-----------------------------|-----------------------|---------------------|
| • Island & Wall bench      | • Base & Wall cabinet       | • Reagent rack        | • Sink unit         |
| • Mobile storage unit      | • Anti vibration table      | • Rotavapor enclosure | • Spot extractor    |
| • Chemical storage cabinet | • Flammable storage cabinet | • Peg board           | • Shower & eye wash |



## Key Features

- Durable construction - Furniture built with stainless steel, powder-coated steel and polypropylene.
- Ergonomic design - Modular systems with customizable layouts.
- Chemical resistant worktops options - Granite, Phenolic resin, Epoxy resin, Ceramic and SS 304/ 316 etc.
- Safety first - Rounded edges, anti-vibration design and fire-retardant materials.
- Flexibility & modularity - Wide range of base cabinets, wall units, reagent racks, and mobile storage units adaptable to evolving lab needs.
- Integrated services - Provision for utilities such as gas, water, vacuum, and electrical sockets for seamless lab operation.





## HVAC solutions for modern laboratories – engineered comfort, assured compliance

Laboratory environments demand strict control of temperature, humidity, air cleanliness, and airflow patterns to ensure safety, compliance and comfort. Our HVAC systems are custom-engineered to meet the unique requirements of laboratories, providing a safe and energy-efficient working environment.

### Key features

#### Air handling

- Advanced air handling units with HEPA/ULPA filters.
- Ventilation systems for laboratories.
- Cleanroom-grade air quality as per ISO and NABL guidelines.
- HVAC design & installation for controlled environments.
- Cooling system- Chilled water, VRV, DX, Evaporative & Hybrid.

#### Fume Hood & process integration

- Seamless integration with laboratory fume hoods and exhaust systems.
- Variable air volume controls to optimize energy consumption.
- Safe removal of hazardous gases and vapours.
- Energy-saving solutions with smart controls.
- Future-ready design - Scalable and compliant systems.

#### Airflow & Pressure management

- Precision airflow control for positive/ negative pressure zones.
- Laminar & turbulent airflow designs for different cleanroom classes.
- Variable air volume and Constant air volume.

#### Temperature & Humidity control

- Temperature and RH zoning for sensitive processes.
- Automated control systems for real-time monitoring.
- Integration with humidifiers and dehumidifiers.



# Exhaust solutions for laboratories – safety you can breathe

Our exhaust systems are designed to provide a reliable and safe solution for handling corrosive and hazardous fumes generated in chemistry laboratories. Built with high-quality materials and engineered for performance, ensuring compliance with safety and environmental standards.

## Key components

### Energy-efficient controls

- Variable air volume controls.
- Demand controlled ventilation.
- Night setback.
- Integration with Building management system.
- High-efficiency blower controls- Variable frequency drives.

### Wet scrubber

- PP FRP construction with excellent resistance to acids and alkalis.
- Efficient fume scrubbing with recirculation pump.
- Inline pH monitoring system.
- Custom-designed for removal of specific chemical contaminants.

### Blower unit

- Centrifugal blower fabricated in FRP/ PP.
- Direct-coupled motor for vibration-free operation.
- Optimized for required airflow and static pressure.
- Energy-efficient and robust performance.

### PP-FRP ducting

- High chemical resistance.
- Smooth inner surface for low friction loss.
- Lightweight yet strong, ensuring long service life.
- Reliable under wide temperature range.



# Comprehensive MEP services – seamless delivery from concept to completion

Our 'Design-Build' approach streamlines Mechanical, Electrical & Plumbing (MEP) projects from concept to commissioning. By integrating design, engineering, procurement and execution under one roof, we achieve faster timelines, optimized costs and guaranteed performance.

## Our strength

- End-to-end expertise from concept planning to commissioning.
- Customized design solutions.
- Integration of Infrastructure & services – HVAC, Electrical, Plumbing, Fire-fighting, ELV and specialized process utilities.
- Holistic picture - Quality & Compliance
- Time & cost efficiency - Lower cost of ownership.
- Sustainability & energy efficiency-Emphasize green design principles.



BUREAU OF ENERGY EFFICIENCY  
Government of India, Ministry of Power



## Interior services – where function meets style

Laboratory interiors are about creating smart spaces that blend safety, functionality and aesthetics. A well-designed laboratory interior enhances efficiency, encourages collaboration and ensures compliance with stringent international standards, all while presenting a modern, professional environment.



# Centralized gas piping solutions for laboratories - safe, reliable, engineered to last

Modern laboratories demand seamless access to specialty gases for research & testing processes. A centralized gas piping system ensures safe, reliable, and efficient gas distribution from a single source to multiple workstations, eliminating the risks and inefficiencies of scattered cylinders. We design and deliver end-to-end centralized gas piping solutions for analytical and research laboratories that guarantee precision delivery, uncompromised safety and long-term performance.

## Key features

### Specialty gas piping

- High-quality SS 316L/ 316/ 304 electropolished tubing with orbital/ manual welding.
- Suitable for gases such as Hydrogen, Nitrogen, Helium, Argon, Zero Air, Oxygen etc.
- Pressure-rated systems designed as per instrument manufacturer requirements.

### Gas distribution & manifolds

- Centralized gas banks and manifolds with manual, automatic or semi-automatic changeover.
- Regulators, pressure gauges and non-return valves for reliable operation.
- Color-coded pipelines for easy identification and safety.

### Safety

- Purge arrangements and non-contaminating fittings for high-purity gases.
- Seamless monitoring and control through Building Management System.
- Leak testing and certification before handover.
- Regulatory compliance.



Gas Cylinder  
Rule no.44 (2015)



Established in 1998, Sudha Analyticals has grown from a laboratory consumables trading firm into one of south India's leading design & build solution providers for laboratory infrastructure. Over the years, we have expanded our expertise to deliver end-to-end solutions that combine innovative design, precision engineering, and world-class safety standards-helping research, academic, and industrial laboratories achieve excellence.

**Vision**

To engineer and deliver safe and efficient laboratories.

**Mission**

To be the most trusted and innovative turnkey solution provider for Laboratories.



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