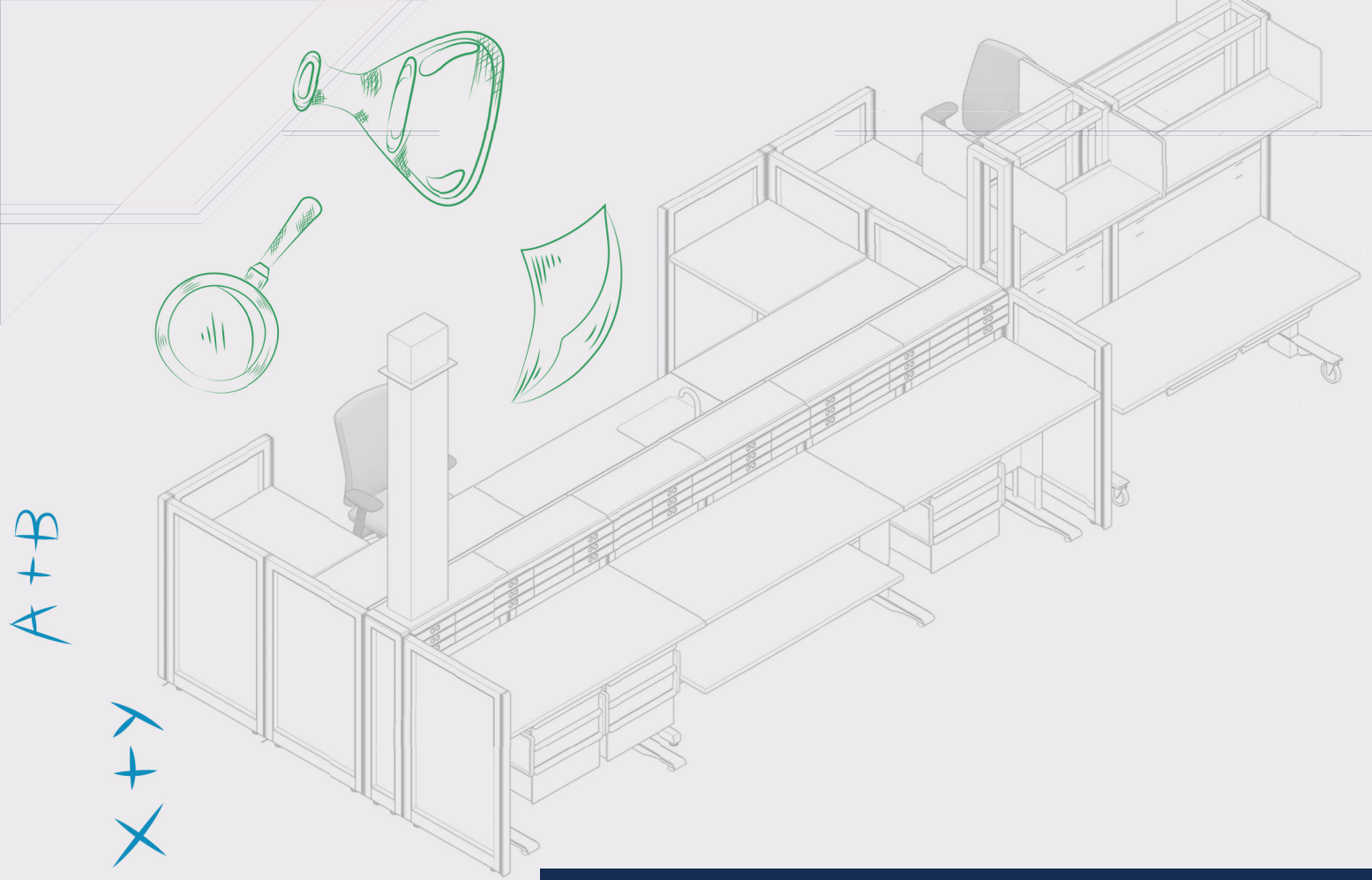


THE ONE-STOP SOLUTION  
PROVIDERS FOR ALL YOUR  
**LABORATORY FURNITURE**  
REQUIREMENTS



**50PLUS MODULAR LAB FURNITURE**

**PRODUCT CATALOGUE**

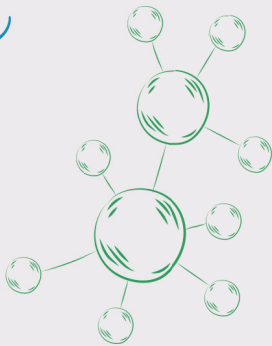


A+B

X+Y

SO<sub>2</sub>

E=mc<sup>2</sup>



AB<sup>2</sup>

H<sub>2</sub>O

# ABOUT US

With over 50 Years of Experience in the field of Laboratory Equipments, we are now prominently placed as a 360° Laboratory Solution provider. We aim to deliver tailor made and user-friendly solutions to all your requirements and in the process add value to your ultimate goals.

Quality is our Philosophy and our certifications adhere to the highest quality standards.

Our Lab Furniture Division boasts of a product portfolio ranging from a simple Lab Bench to customised Furniture that will suit your needs and space.



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# Guide to Laboratory FURNITURE planning

## 1. Nature of the facility and the objective of building it:

Discuss with Scientists/end user

- How much space will the new lab should have?
- Are there limitations to the area (support columns, doorways, etc.)?
- Is work performed individually or in pairs, Teams?

The pharmaceutical research facility will need a lot of wet labs; but a clinical research facility will need more of analytical laboratories with lot of support area. Hence, the furniture height and utility requirements will change significantly, depending on the requirements.

## 2. User habits:

User habits play a major role in selection and planning. The same type of Lab ,the Lab set up for students in Universities will differ from that of a research centre.

## 3. Need of flexibility:

A lot of new age research labs need flexibility for future expansion. For such labs; you can look at flexible laboratory furniture options available with most manufacturers. Modular Furniture is the best option for this

## 4. Capacity and work flows:

Depending on how many researchers/Students will occupy the laboratory; the workup space, no of fume hoods and seating spaces need to be finalized. Depending on the workflow and work type, walk-in hood, distillation hood or bench-top hoods are selected. Researchers seating and working areas should not be very far.

## 5. Furniture configuration:

You have many options to choose from: fixed plinth based system, flexible C frame, H frame and castor systems too. Depending on the future expansion plans, a right type of furniture configuration should be opted.

## 6. Steel or Wood:

Depending on the usage, comfort level of users & user company's internal standards; the material of construction is decided. Powder coated steel or engineered wood are two main options available today. Each option has its own pros & cons; which had to be weighed before taking a final call.

The movement space between two tables should be 1.5 meters at least. Also, wet lab's furniture should have standing height (900 mm) and instrument lab's furniture should have seating height tables (750 mm) with adequate leg spaces.

## 7. Worktop finishes:

Every lab will have different needs. Granite is most commonly used; but now there are several other options like: Ceramics, phenolic laminates, epoxy tops etc. Bio-tech laboratory will need worktops which are resistant to microbial growth, whereas a chemical research lab will need a worktop which withstands a lot of aggressive chemicals. So, take the samples from the furniture vendors and test those before making final decision.

## 8. Chemical storage strategies:

Depending on the type of chemicals, you can decide whether to use corrosive chemical cabinets or flammable solvent storage cabinets. You need to plan for ventilation of these cabinets other aspects too.

## 9. Extraction systems:

Extraction systems although do not fall directly into furniture category, yet they are part of furniture infrastructure. You don't need expensive fume hood to extract fumes everywhere. You can use canopies on wash areas, spot extractors over rotavapours or enclosures over analytical balances. This will help you reduce exhaust volume and also will cut the cost.

## 10. Compliance with suitable standards and Safety guide lines:

## 11. Availability of spare parts and durability:

Ensure that the makes of spares & accessories are indeed reputed brands. A check upon durability is important from the investment and safety point of view.

## 12. Vendor selection and after sales service:

It is essential to check whether the company has an authorized local partner/service center in close vicinity to ensure minimum down time.

## 13. Involvement of all stakeholders:

Users, Project engineers, Scientists and Architects must be involved for this decision. Otherwise you may expect a lot of re-work and dissatisfaction.

## 14. Budget:

Depending on the specifications and manufacturer; the prices will vary. So budgeting is really important. Price difference between imported furniture & Indian furniture can be very significant

## 15. Last but not the least-Aesthetics:

One of the most important part and it goes without saying that everybody wants a very good looking lab. Colours play a vital role here. So, choose colors wisely.

## GENERAL FEATURES

### Work Tables | Island Tables | Accessories

- ▶ Modular Type for easy Installation and dismantling and for re-arrangement
- ▶ Continuous or Alternative Module with Knee Hole & Foot Rest as required
- ▶ High precision cut with multiple folding technique
- ▶ Electro Galvanized Steel Modules with Epoxy Power Coating in elegant colours.
- ▶ High Quality Black Granite Work Tops ( 17 +/- 2mm )
- ▶ Imported Epoxy Resin Work Tops ( only for bulk large qty. Order )
- ▶ Telescopic Channels for the Drawers for smooth working
- ▶ Plastic caps on legs to avoid rusting.
- ▶ Soft rubber studs on all contact points for reducing metallic noise
- ▶ Individual branded locks for drawer and shutter
- ▶ High Quality SS Hinges for the shutter and doors.
- ▶ SS Curved Handles
- ▶ Base Skirting & Jacks for level adjustment
- ▶ Sinks made of Black moulded Polypropylene (PP) with elegant Swan Neck Taps, drain pipe etc (optional)



## Chemistry Lab

### Chemistry Lab

The most common lab tables in the Chemistry Labs of Colleges, Institutions and R&D Labs consist of a Central Island Table with Reagent racks and Built-in Sink.

### A Chemistry Lab can have the following arrangements:

- ▶ Wall Cupboards at various points to store materials over head on the walls.
- ▶ Vertical Chemical Storage Cabinet to store Chemicals / Bottles safely with lock.
- ▶ Fume Hood to perform Heating Reactions to remove the toxic / corrosive fume away from the work area.
- ▶ Anti-Vibration Table for sensitive Balance / Microscopes Revolving Lab Stools Canopy Hoods



## Physics | Instrumentation | Electronics Lab

### Instrumentation

Instrument & Electronic Labs are provided with special Work tables with Power Module attachments for driving the Equipment/Instruments.

**The Instrument Work Table can be provided with below options.**

- ▶▶ Power Module at the back side for the full length of the Table.
- ▶▶ Individual Power Module having 2 numbers of 5 / 15 Amps power points with switches.
- ▶▶ Option for Power Points fitted below the Work Top in lieu of the drawers.
- ▶▶ Electronic components/ Accessories storage rack for storing essential components



## Biology | Botany | Zoology Labs

The Botany & Zoology Labs will have Centre Work Tables with Specimen Storage and display Cabinets. The Table will have built-in Sink for utility.

**This Lab can have the following arrangements:**

- ▶▶ Specimen Display Cabinets.
- ▶▶ Wall Cupboards at various points to store materials over head on the walls.
- ▶▶ Floor Cupboards to store samples safely with lock
- ▶▶ Revolving Lab Stools
- ▶▶ Common Sink space unit for washing/cleaning





## Microbiology | Biotechnology & Biochemistry Labs

The Microbiology, Biotechnology and Biochemistry Labs have become a must in colleges and are the most in demand labs.

**A Micro / Bio Lab can have the following arrangements:**

- ▶▶ Wall Cupboards at various points to store materials over head on the walls.
- ▶▶ Vertical Chemical Storage Cabinet to store Chemicals / Bottles safely with lock.
- ▶▶ Laminar Air Flow Cabinet / Bio Safety Cabinets
- ▶▶ Anti-Vibration Table for sensitive Balance / Microscopes
- ▶▶ Revolving Lab Stools
- ▶▶ Canopy Hoods
- ▶▶ Air Curtain for Clean area
- ▶▶ Fume Hoods'



## Industrial Laboratories | Testing Quality Control | R & D

A Testing Lab is common and mandatory for all types of industries; be it Food & Beverages, Cement, Paper, Fertilizer, Distilleries & Breweries, Petro Chemicals, Refineries, Sugar, Automobile, Steel, Foundry, RO Plants, Mineral Water Plants, Effluent Treatment Plants, Tanneries, etc.

Depending on the type and nature of the Testing Equipment / Quality Control Equipment, and the size of the laboratory, the required furniture and accessories can be chosen. We extend our support in designing well-furnished Labs with aesthetic values to suit the user's requirement.

### The industrial labs can have the following arrangements:

- ▶ Wall Cupboards at various points to store materials over head on the walls.
- ▶ Vertical Chemical Storage Cabinet to store Chemicals / Bottles safely with lock.
- ▶ Laminar Air Flow Cabinet / Bio Safety Cabinets, Anti Vibration Table for sensitive Balance / Microscopes
- ▶ Revolving Lab Stools
- ▶ Canopy Hoods
- ▶ Air Curtain for Clean area

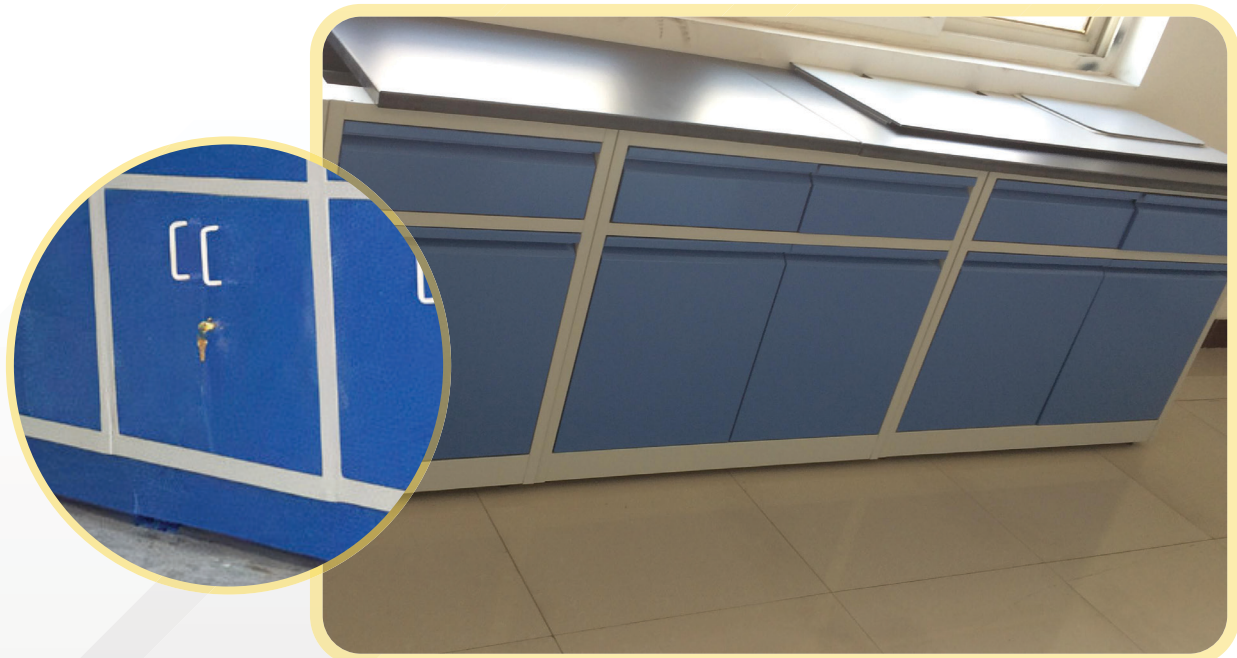


## Wall Side Table

The Work Tables are designed in a way to fit in any kind and any shape of Laboratory to give maximum flexibility and utility.

### Features:

- ▶ High Grade Electro Galvanized Steel of 20 Swg
- ▶ Epoxy Polyester Powder Coating finish
- ▶ High quality Granite work Tops.
- ▶ Imported Epoxy Work Tops(Optional)
- ▶ Width - Normally 750mm or 900mm, Height -750mm or 900mm.
- ▶ Options with Knee Hole and foot rest or Continuous Modules are available.





## Storage Cupboard | Cabinets

Storage cabinets have three vertical sliding racks. Each rack has shelves; designed specially to store small laboratory reagents and chemicals.



## Anti-Vibration Tables

The anti-vibration table is designed for use in the laboratory or metrology room to provide suitable working conditions for devices that are sensitive to vibrations and shocks. The table comprises two separate parts - An internal working surface consisting of a large granite slab mounted on rubber shock absorbing mounts, and an external service table with steel frame and adjustable levelling feet.

*Application: For highly sensitive instruments like Electronic Balance.*

Model	Dimension
SAVT	900 x 600 x 750 mm

### Salient Features

- ▶▶ Top is made of multilayer Heavy Thick Black Granite of 100mm
- ▶▶ 100% Anti Vibration work area
- ▶▶ Base support is made of Heavy Rectangular Steel Pipe with Epoxy Powder coating finish
- ▶▶ Anti-Vibration mounts provided at 2 stages for double dampening effect.
- ▶▶ Foot level height adjustment.
- ▶▶ Special Shore 'D' hardness Rubber used for the Anti-Vibration Mounts.
- ▶▶ All AVT's are tested with calibrated Vibration meter.
- ▶▶ Working Height of Table can be Sitting - 750mm or Standing - 900mm

### Mount options :

1. Standard Elastomeric Mounts.
2. Advanced Shock Resistant Air Spring Mounts. ( NEW )
3. Advanced Auto Levelling Pneumatic Mounts. ( NEW )

Model	Dimension
SAVT 600	600 x 600 x 750 / 900
SAVT 900	900 x 600 x 750 / 900
SAVT 1200	1200 x 600 x 750 / 900



## Sink Unit

A Standalone Sink Unit gives additional advantages in a Lab. This kind of Sink Unit can be positioned anywhere in the lab as required and is easy to shift to another location at later stage without disturbing the existing Work table arrangements.

### Salient Features

- ▶ Sink is Polypropylene (Black) which can withstand most of the chemical wash in the lab.
- ▶ Standard sink size and Bigger sink size available
- ▶ Base cabinet is made of Electro galvanized Steel with Epoxy Powder Coating finish.
- ▶ Bottom Storage with Shutter, SS handles and locking arrangement.
- ▶ Dummy Drawer for aesthetic look.
- ▶ Swan Neck tap - One way or 2 way or 3 way.
- ▶ Top fitted with Black Granite.

Model	Dimension
SU - 900	900 x 750 x 900
SU - 1500	1500 x 750 x 900



## Lab Stool

- ▶▶ Structure made of stainless steel pipe and seat made of SS with polished.
- ▶▶ Adjustable heights upto 50 mm and suitable for use with standard laboratory tables.

### Models

#### S ST - 01

- ▶▶ Seat made of Stainless Steel of 300mm
- ▶▶ Seat supported by MSShaft which can revolve to increase or decrease height between 600 to 750mm.
- ▶▶ Stand by 3 legs also made of SS.

#### S ST - 02

- ▶▶ Seat made of high quality PU with additional thick soft cushion.
- ▶▶ Easy Gas lifts single liver seat adjustment.
- ▶▶ Five point PU Castor wheels mounted on steel pipe base with electro plating finish, providing Ring Footrest.

#### S ST - 03

- ▶▶ With Medium Density PU semisoft seat.
- ▶▶ Easy Gas lifts single liver seat adjustment.
- ▶▶ Five point PU Castor wheels mounted on steel castor board
- ▶▶ Electroplating finish.

#### S ST - 04

- ▶▶ With Large Diameter High Density PU seat with holes for ventilation.
- ▶▶ Easy Gas lifts single liver seat adjustment.
- ▶▶ Five point PU Castor wheels mounted on steel castor board
- ▶▶ Electroplating finish



## Eye Wash | Peg Board | Air Curtain

### EMERGENCY EYE WASH cum Shower: (Hand/Foot Operated)

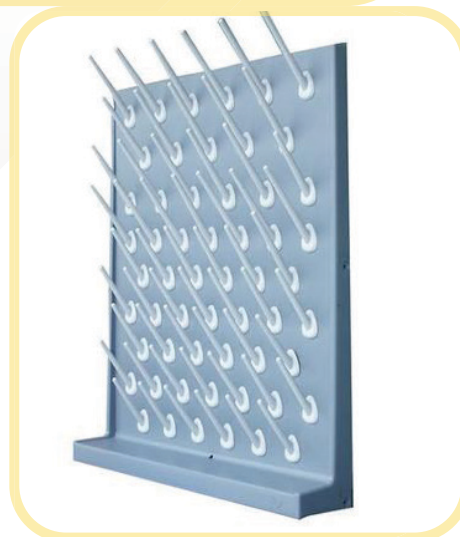
- ▶▶ Pipe made up of GI (C - Class) heavy grade confirming to IS : 2139 with self-closing stainless steel valve.
- ▶▶ Bowl for Eye Wash, Eye wash Nozzles and
- ▶▶ Shower Head are made up of Highly Visible anti corrosive plastic / SS 304 Grade.
- ▶▶ Foot Pedal, Spring and pull chain are made up of MS Galvanized / SS 304 Grade



### PEG BOARD

#### Lab Glassware drying rack / pegboard

- ▶▶ 400 \* 550\* 110 mm, 27 Pegs in authentic grey colour made up of High Grade PP,
- ▶▶ Single faced Tray hole for water drainage and detachable Peg for convenient use.
- ▶▶ Installation can be done in deck mounted pattern also.





## Fume Hood

With the advent of the occupational safety & Health act (OSHA), removal of toxic fumes and gases from the laboratory has become even more important.

### Fume Hood Exhaust Systems

It is essential to make the laboratory a safe place to perform various research and testing and to offer substantial degree of safety to the user. Fume hoods are designed specifically to provide ventilation for the protection of lab occupants during chemical manipulations. One of the primary safety devices in a laboratory is a chemical fume hood. A well- designed hood, when properly installed and maintained, can offer a substantial degree of protection to the user, provided that it is used appropriately and its limitations are understood.

### When is a Fume Hood Necessary?

To know if a fume hood is necessary for a particular experiment user should analyze the hazard nature of the planned work as below.

- ▶▶ Review of Physical Characteristics, Quantity and Toxicity of the Materials to be used.
- ▶▶ The experimental procedure
- ▶▶ Base support is made of Heavy Rectangular Steel Pipe with Epoxy Powder coating finish
- ▶▶ The volatility of the materials present during the experiment
- ▶▶ The probability of their release
- ▶▶ The number and sophistication of manipulations

**SCIENTIFIC** Fume Hood is a primary containment Hood to ensure such safety standards. These Fume Hoods are manufactured as per the guidelines of the standards laid down by the Occupational Safety & Health Act (OSHA), SEFAetc for removal and exhaust of Toxic gases / fumes a contained work area.

### SALIENT FEATURES

- ▶▶ Inner body lined with FRP to handle most corrosive fumes.
- ▶▶ Well-designed aerodynamic Baffle to ensure removal of all toxic fumes.
- ▶▶ Option of Single, 2 and 3 point suction for removal of heavy, medium & light fumes.
- ▶▶ Slash opening with counter weight
- ▶▶ Control Panel with Power points, Switches on front fascia.
- ▶▶ External Blower to provide required suction / Exhaust
- ▶▶ Ducting of FRP or PVC
- ▶▶ Built -in Illumination
- ▶▶ Remote Wet & Dry valve Control (Option)
- ▶▶ Internal Built -in Blower (Option)
- ▶▶ PP Sink (Option)



Model No.	Dimension (Lxbxh)Mm
S FH/4	1200 x 750 x 2400
S FH/5	1500 x 750 x 2400
S FH/6	1800 x 750 x 2400





**FIFTY PLUS  
SCIENTIFIC**  
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