



# SWATHI CLEANROOMS



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Division of SWATHI ENGINEERING WORKS



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# ABOUT US

## EXECUTIVE SUMMARY

Swathi Engineering Works, a Sole Proprietorship business firm, was incorporated in **2000** in Hyderabad, India. We have proved ourselves to be one of the prominent & leading manufacturers and suppliers of a broad range of Clean Rooms, Personnel Air/Mist Showers, Dispensing & Sampling Booths, Clean Room Wall/ Ceiling Panels, Clean Room Doors, Laminar Air Flow Units and more. We manufacture all the above products **in-house** in a state-of-the-art facility including Air Handling Systems with BMS Systems.

## APPLICATIONS

- Pharmaceutical Industries
- Micro-biological Industries
- Research & Development Organizations
- Pathological Laboratories
- Electronics and Semi-Conductors Manufacturing
- Food Processing Industries
- Aero Space Industries

## OUR PRODUCTS

### TURNKEY SOLUTIONS

With years of experience behind us and with numerous projects executed effectively, we have the learning, assets, and labor required to embrace the turnkey establishment of your undertakings. We assume control appropriate from the idea stage and join with you till the project is dispatched. Our accomplished approval group guarantees all the key procedures and practical types of gear to guarantee your project. We install, commission, support and validate them in the committed timelines.

Clean Room Partitions & Doors  
Cleanroom HVAC & Automation  
Clean Room Equipments & Furniture





## MODULAR CLEAN ROOM

We offer an entire scope of clean room wall partitions & ceiling panels. These panels meet the technical necessities of highly detail-controlled situations, for example, Pharmaceutical, Biotech, and Microelectronics, and in addition Food-processing industries. The ceiling panels are non-molecule shedding, stack bearing, walkable boards and highlight pre-framed cutouts for lodging HEPA filters and other committed services.

## WALL AND CEILING PANELS

To meet the diversified specifications of GMP, SEW offers a wide range of Pre-Fabricated Modular Clean Room Panels. These Panels are offered with the provision for Utilities & Cables, Flush Doors, Light fixtures, Provision for Terminal Filter and Return air riser & Vision Panels.

### FEATURES

High durability  
Easy to install  
Rust and moisture-resistant  
Walkable/ Non Walkable Ceiling  
Coving at wall & ceiling corners  
CNC Machined 3-way corners

### CONSTRUCTION

PPGI  
SS 304/316 Grade  
High Compressed Laminated sheet  
GPSP Powder coated

### SPECIFICATIONS

Infill:- PU Foam, EPS & Rockwool.  
Thickness:- 35 mm to 100 mm  
Type:- M-section and Tongue & Groove.



## CLEAN ROOM DOORS

SEW being one of the reputed manufacturers of industry, are engaged in supplying high quality clean room flush doors. These doors are featured with electromagnetic devices which gives minimal oozing assurance of the air. Manufactured to meet the world's most critical standards for Clean Room Application. During the manufacturing process these products are checked after each step of manufacture, thus these products match the international quality in the market.

### SPECIFICATIONS

- Infill:- PU Foam/ Craft Paper(Honey Comb)/ Rockwool
- Available in Stainless Steel and Galvanized Steel.
- Single Leaf and Double Leaf.



For more details :-  
[www.swathidor.com](http://www.swathidor.com)



## CLEAN ROOM HVAC

HVAC systems include air conditioners, a Motorblower assembly, an evaporative coil, a compressor and compressor coil, thermostats, ductwork, Modules, filters, Grills, diffusers, and dampers which help to distribute the conditioned air within a building. We follow very stringent quality control systems and up-to-date guidelines, where we ensure every raw material received and every manufactured item is tested and approved as per the set quality norms. This ensures the optimum performance of the equipment.

**SEW is a prominent service provider in the global market offering Cleanroom Validation Services.**

## AIR HANDLING UNIT

The Air Handling Unit (AHU) is the heart of central air conditioning. It gathers indoor and outdoor air, filters out dust and other debris, regulates the temperature and humidity, and then distributes cool, comfortable air into the rooms through ducts.

Our AHUs are built with a variety of features like **thermal brakes** and other specially created capabilities, as well as lower footprints, greater energy efficiency, and adaptability. It can also be integrated with **BMS and EMS Systems**,





## CLEAN ROOM EQUIPMENT

We offer Cleanroom equipment within Cleanroom for Biotech Pharmaceuticals, Microelectronics, Laboratories, Semiconductor units and Hospitals. We provide tailor made solution and design cleanroom equipments for specific use. The equipments are designed with durability, ease of use, compactness and aesthetics in focus. Our engineers have likewise attempted to guarantee these types of equipment coordinate effectively with our cleanroom panels.

### SAMPLING & DISPENSING BOOTH

Protection from airborne contaminants generated during powder handling operations such as sampling, charging and dispensing.

#### FEATURES

Ultra-quiet operation  
Advanced Engineering  
Modern knock-down design

#### SPECIFICATIONS

Cleanliness: ISO Class 5  
Air Flow:  $90 \pm 20$  fpm.  
Sound Level: 63 dba.  
Light Level: 800 Lux.  
Efficiency: 99.97%  
Testing: Factory tested to confirm USFDA 209  
Electrical: 230 v Single phase. 50 Hz.

### PASS BOX

In pharmaceutical manufacturing facilities, it is essential to minimize man/material movement and avoid cross-contamination between different classified areas to achieve the desired classification and to maintain the integrity of products and processes. Pass Box is designed to allow material transfer without much personnel movement.

#### STATIC PASS BOX

Double Walled Construction  
Mechanical / Pneumatic  
interlocking  
Electro-magnetic  
Interlocking view panels

#### DYNAMIC PASS BOX

Two Stage filtration  
Dynamic balanced Motor-  
blower  
Electro-magnetic  
Interlocking

#### FEATURES

Ultra quiet operation  
Advanced engineering  
Economy of space  
Low cost



## LAMINAR AIR FLOW

Laminar Air Flow Units are designed to offer the highest product protection by providing ISO Class 5 particle-free work area for handling critical processes. LAF offers proven protection for the samples and processes. The work area is continuously supplied with positive pressure HEPA-filtered airflow. The laminarity of the flow prevents cross-contamination between the items handled in the working space.

### TYPES OF LAMINAR AIR FLOW UNITS

- Horizontal Laminar Air Flow Unit
- Vertical Laminar Air Flow Unit
- Ceiling Suspended Laminar Air Flow Unit

### SPECIFICATIONS

Cleanliness: ISO Class 5

Air Flow:  $90 \pm 20$  fpm

Sound Level: <65 dba

Light Level : >800 lux

Vibration: <5 micron PP displacement

Efficiency : >99.97%



## AIR/ MIST SHOWER

Mist showers are made to remove particles rapidly and thoroughly so that they do not leave the cleanroom. It is an airlock installed at the exit of the cleanroom where hazardous products like oncology drugs, sterile products, and hormonal injectables are processed. When exiting the area, it aims to offer protection to the operator throughout the de-gowning process.

### FEATURES

Ultra quiet operation  
Advanced Engineering  
Easy service access  
Low cost  
Modern knock-down design  
Economy of space

### SPECIFICATIONS

The Unit constructed out of 304G SS sheets with air tight lid to hold water & compressed air, with solenoid valve for water-IN & OUT, Timer, switches, SS Pipe line & control panels etc.





## BIO SAFETY CABINET

When working with biological agents, one of the most popular and reliable primary containment tools in laboratories is the biological safety cabinet (BSC). BSCs shield people from splashes and aerosols. The downward laminar flow of HEPA-filtered air provides product protection by minimizing the chance of cross-contamination along the work surface of the cabinet. Biosafety cabinets are available in powder-coated Galvanized Steel, SS 304 / SS 316, or a combination of both.

### FEATURES

Ultra-quiet operations.  
Advanced Engineering.  
Modern Knock Down Design.  
Long Life for LAFU Filters.  
90% recirculatory and 10% Exhaust  
through Hepa/ULPA Filters

### SPECIFICATIONS

Cleanliness: ISO Class 5  
Air Flow:  $90 \pm 20$  fpm.  
Sound Level: 63 dba.  
Light Level: 800 to 1000 Lux.  
Vibration: 5 micron PP Displacement.  
Electrical : 230 v Single phase. 50 Hz.



### OTHER PRODUCTS

#### STERILE CABINET

A clean Or Sterile Material Storage Cabinet is used to preserve sterile material or garments in a bacteria-free environment & to store clean material/garments in dust free area.

#### LAB TABLES

Our Work Tables are manufactured in various designs and shapes, custom made to suit customers requirements. The construction material is epoxy coated galvanized iron with suitable thickness. The system are designed to be fitted with pedestal system and as per clients specifications.

#### CROSS OVER BENCH

High-quality step-over benches for clean room and containment facilities. Allows personnel to change into clean room clothing and footwear safely, minimising the risk of cross contamination.

#### FUME HOOD

We offer a complete line of benchtop, walk-in, and teaching hoods, including a wide selection of hood accessories, cabinets, countertops and blowers. Our Fume Hoods combine effective control, from exposure to hazardous chemicals and agents used in the laboratory.