



CLIMATE GRIP

"The Air You Deserve, We Deliver"



CLIMATE GRIP PVT. LTD.



A Venture Unit of:-

COOLTECH ENGINEERS





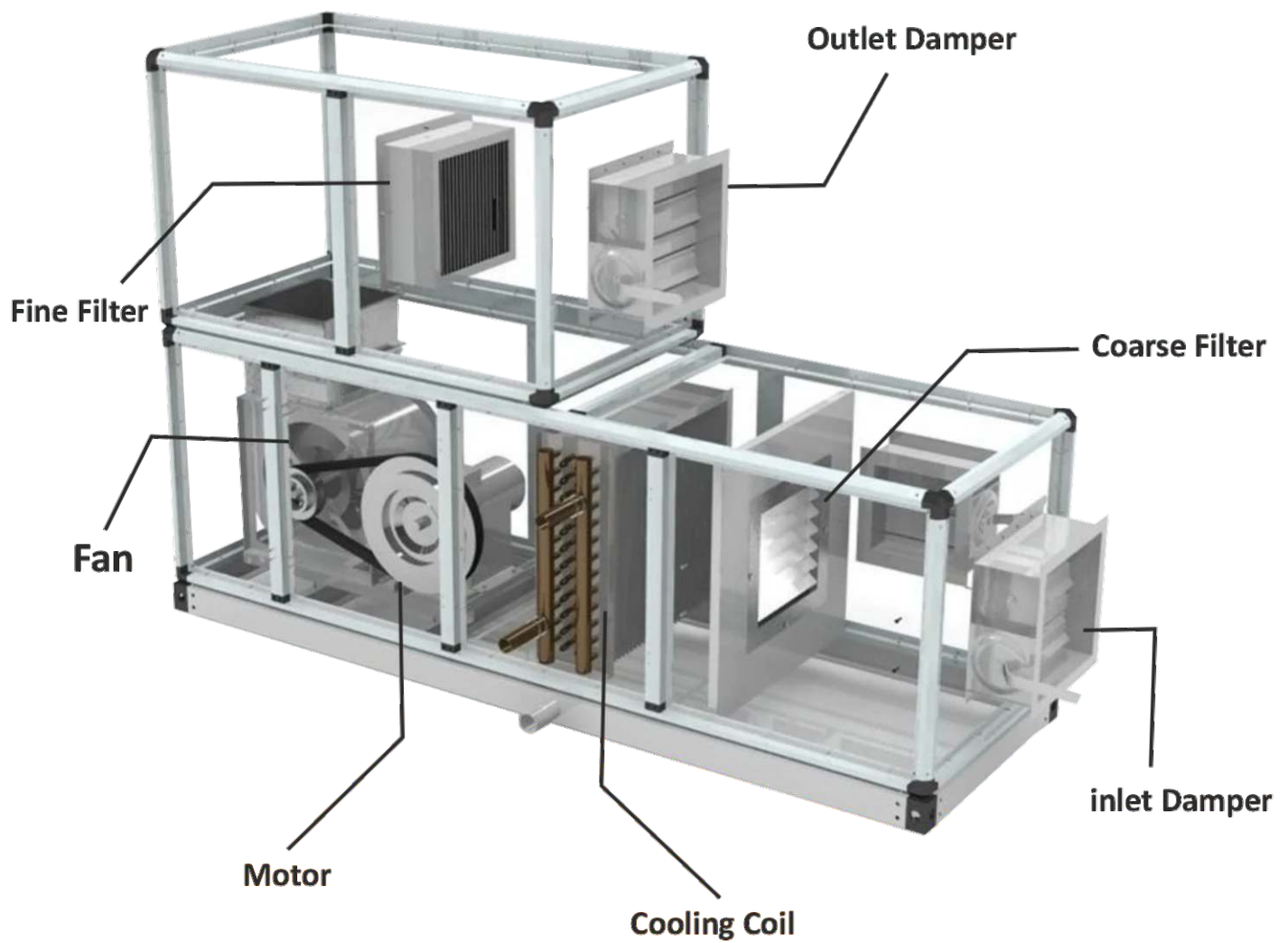
*"The Air You Deserve,
We Deliver"*

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AIR HANDLING UNIT

AHU Assemblies



ABOUT US



Climate Grip is committed to deliver World Class High Efficiency Air Side Products & other HVAC Equipments.

An Eurovent* & ISO 9001:2015 certified company which is operational with 2 factories covering 45,000 sq. ft. State of the Art manufacturing facility in Punjab & Mumbai (India.)

We provide complete HVAC solutions, offering expert design, installation, and maintenance to ensure comfort, efficiency, and reliability for every space."

We want to thank all our clients for making this possible. In the end, everything we do, we do to serve you better and provide you with the best results possible.

Our HVAC systems are designed to be energy-efficient, helping our customers save money on their energy bills while also reducing their carbon footprint.

APPLICATION EXPERTISE

- Sterile-Injectable & Vaccine
- Tablet & Capsules
- Ophthalmic
- Parenteral
- Hormone
- Oncology
- Oral Solid Dosage
- API & Intermediate
- Ointment & Cosmetic
- R&D & Micor Lab
- Food Processing Unit
- Beverages Unit

*Applied for



OUR STEPS AHEAD



OUR STRENGTH



Reliability & Trust



Customer Centric
Approach



Skilled team



Quality &
Technology



Timely Delivery



OUR PRODUCT RANGE

- * Air Handling Units in various design and construction
- * Ceiling Suspended Unit
- * Exhaust Units and Duct-able units
- * Air Washer and Air Scrubber Units (Dry & Wet)
- * Smart Air Handling unit
- * Floor mounted vertical Air Handling unit
- * Fan Coil unit
- * Hot Water Generator
- * Modular OT Hood
- * Filter Drying Station and Filter Cleaning Station
- * Electrical Panel
- * Cooling and Heating Coils
- * DX/VRF coil
- * Low leakage volume control dampers (in MS & Aluminum)
- * Hepa Housing with VCD Damper
- * Aluminum Diffuser & Grill
- * Pre, Fine & Hepa Filter
- * S.S304 Perforated Sheet
- * Water Cooled or Air Cooled Chiller
- * Validation

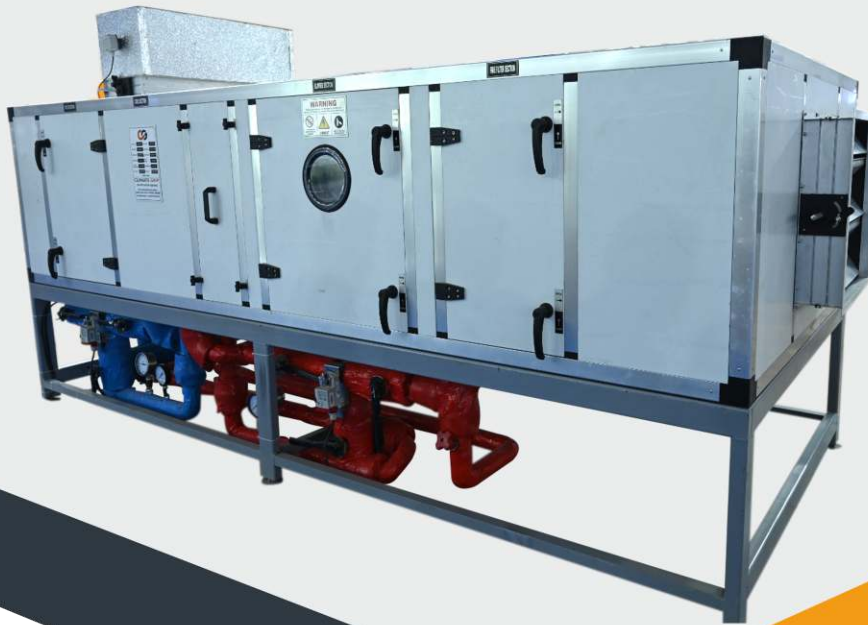
OUR PRODUCT SPECIALITY

- * Designing based on ASHRAE / GMP /W.H.O. / FDA/ISO Guideliness
- * Precise Workmanship
- * Low Maintenance
- * Low Noise
- * Low Leakage
- * Highly Reliable
- * Fast Delivery
- * Eco Friendly
- * Quality Assurance
- * Technical Support

A Leader in
**HVAC PROJECT
REFRIGERATION
ACCESSORIES
CLEAN ROOM VALIDATION**



SMART AIR HANDLING UNIT



Climate Grip offers Smart Air Handling Unit represents the next generation of HVAC technology, incorporating intelligent controls, IoT connectivity, and real-time performance monitoring. Ideal for smart buildings and energy-conscious projects, it offers automated system optimization, fault detection, and remote access. Its integration with BMS (Building Management Systems) allows for centralized control, reduced energy consumption, and enhanced occupant comfort. Custom configurations are available for various commercial and industrial applications.

KEY BENEFITS

- Real time monitoring
- High efficiency fan and motor
- VRV/VRF compatible
- HMI Display
- Low dB
- Energy and cost saving



ADDITIONAL FEATURES

- Weather proof canopy
- Provision of UV lamps
- Heat Pipe provision
- Humidifier option
- Louvers/Plenums

PHARMA AIR HANDLING UNIT



KEY BENEFITS

- 45/50mm thick panel
- Thermal break profile with internal coving
- Air tight door locking system with EPDM gasket
- Customize unit equipped with
 - Heat recovery wheel/ Cross plate heat exchanger
 - Uv light/PHI/Hepa filters
 - Higher volume and high static pressure unit

Climate Grip offers specifically developed for pharmaceutical and cleanroom environments, the Pharma AHU ensures precise control over temperature, humidity, and air cleanliness. Built to comply with cGMP and FDA guidelines, it features high-efficiency HEPA filters, smooth internal surfaces, and contamination control systems. This unit is essential for critical areas like manufacturing, formulation, packaging, and R&D labs. Designed for reliability and hygiene, it supports seamless integration into validated cleanroom setups.

ADDITIONAL FEATURES

- Plug Fans with EC Motors (EC fans)
- Hot Water/Steam Coils/Elec Heaters
- Mixing Box/ Louvered / Damper Intake
- Heat Pipe
- Gauges/Controllers/HMI Display
- Canopy for roof top unit applications.



FLOOR MOUNTED HORIZONTAL AIR HANDLING UNIT



KEY BENEFITS

- Reduces particulates (Dust, dander and pollen) in the air
- Dilutes air born infection in the air
- Energy efficient
- Customise as per demand
- Standard Aluminium Dampers

The Floor Mounted Horizontal Air Handling Unit is engineered for efficient air distribution in large commercial and industrial spaces. Its horizontal design allows for easy integration with ductwork, making it ideal for plant rooms or concealed installations. Built with high-quality components, including filters, coils, and blowers, it delivers reliable performance, energy efficiency, and low noise levels. This unit is suitable for both cooling and heating applications and can be customized to meet specific project requirements.

ADDITIONAL FEATURES

- Thermal Break profile construction
- DX -VRF/VRV/HW/Steam coils
- IE4/IE5-EC motors
- Flame proof motors
- Flame proof Marine light & limit switch
- Weather proof canopy
- Provision of UV lamps
- Heat Pipe provision



CEILING SUSPENDED AIR HANDLING UNIT



KEY BENEFITS

- Pre/ Fine filtration
- Plug fans/DIDW/SISW- backward/forward curved Fans/EC fans
- Marine lamp & limit switch inside unit
- Standard Aluminium Dampers
- Low dB

The Ceiling Suspended Air Handling Unit offers a space-saving solution without compromising on performance. Designed to be mounted directly under the ceiling, this unit is ideal for areas where floor space is limited, such as commercial buildings, offices, and retail outlets. It provides efficient air filtration, cooling, and heating, while maintaining low operational noise. The unit's compact and lightweight construction ensures ease of installation and maintenance, making it a preferred choice for modern HVAC systems.

ADDITIONAL FEATURES

- EC Plenum/EC DIDW backward fans
- DX -VRF/VRV/HWcoils
- IE4/IE5-EC motors
- Provision of UV lamps



FLOOR MOUNTED VERTICAL AIR HANDLING UNIT



KEY BENEFITS

- Low dB
- Compact design
- Easy installation
- Energy efficient

Climate Grip offers this Vertical Air Handling Unit is a robust and versatile solution for environments requiring vertical airflow. Designed for efficient performance in high-demand spaces such as hospitals, laboratories, and commercial buildings, it supports both cooling and heating applications. Its vertical configuration allows for easier maintenance access and flexible installation. Equipped with high-efficiency filters, fans, and coils, the unit ensures optimal air quality and thermal comfort, with the option for full customization.

ADDITIONAL FEATURES

- 25/45 puff insulation panel
- Plug fans/DIDW/SISW-backward/forward curved Fans/EC fans
- DX -VRF/VRV/HW/Steam coils
- Standard Alluminium Dampers
- Electric heaters optional



AIR WASHER UNIT



KEY BENEFITS

- Low running cost
- Provide dust free environment
- High efficiency
- Higher ACPH

The Air Washer Unit is designed to clean, humidify, and cool incoming air using water-based filtration. Widely used in industrial applications such as textile mills, manufacturing plants, and commercial setups, it enhances indoor air quality by removing dust and pollutants while maintaining desired humidity levels. Its simple yet effective design includes water spray systems, eliminators, and filters, making it a cost-effective and environmentally friendly solution for air treatment.



ADDITIONAL FEATURES

- Louvers
- Canopy
- Plug fans/DIDW/SISW-backward/forward curved Fans/EC fans
- Aluminium Dampers

FRESH AIR VENTILATION UNIT

KEY BENEFITS

- Clean and Fresh Air
- Enhances comfort
- Energy efficient
- Controlled ventilation



Climate grip offers FAU to continuous supply of fresh, filtered air to indoor environments, improving indoor air quality and occupant comfort. It is ideal for buildings requiring controlled ventilation, such as offices, hospitals, schools, and commercial spaces. Equipped with high-efficiency filters, fans, and optional heat recovery systems, the Fresh Air Ventilation Unit helps maintain a healthy indoor environment while optimizing energy use and ensuring compliance with building ventilation codes.

ADDITIONAL FEATURES

- 45±2 mm PUF panel
- Thermal Break Profile construction
- EC Plenum/EC DIDW backward fans
- Canopy



EXHAUST VENTILATION UNIT

Climate grip offers Exhaust Ventilation Unit that is specifically designed to remove stale, contaminated, or odorous air from indoor spaces. It plays a critical role in maintaining a safe and healthy environment in commercial kitchens, workshops, laboratories, and industrial facilities. Built with high-performance fans and durable casings, this unit ensures effective and continuous exhaust with minimal noise. Optional filters and accessories are available to suit specialized applications.

KEY BENEFITS

- Effectively removes stale indoor air.
- Reduces moisture, odors, and indoor pollutants.
- Improves indoor air quality and comfort.
- Prevents condensation and mold growth.
- Simple, cost-effective ventilation solution.

ADDITIONAL FEATURES

- Thermal Break Profile construction
- Activated carbon filters
- Cowl and bird screen
- Canopy

DRY AND WET SCRUBBER UNIT



KEY BENEFITS

- Efficiently removes dust, gases, and chemical pollutants.
- Controls odors and harmful emissions.
- Improves overall indoor and outdoor air quality.
- Provides flexible operation for various industrial processes.

Our Dry and Wet Scrubber Units are engineered to control air pollution by effectively removing dust particles, chemical fumes, and gaseous pollutants from industrial exhaust streams. The wet scrubber uses liquid media to absorb contaminants, while the dry scrubber utilizes sorbents or filters. These systems are ideal for chemical plants, pharmaceuticals, foundries, and other industries requiring strict emission control. Built with corrosion-resistant materials and customizable configurations, they ensure environmental compliance and operational safety.



ADDITIONAL FEATURES

- Thermal Break Profile construction
- Louvers
- Canopy

FAN COIL UNIT FCU



Our Fan Coil Unit is a compact and energy-efficient device used to provide localized heating and cooling in residential, commercial, and hospitality settings. It consists of a fan and a coil that uses hot or chilled water to condition the air. Designed for silent operation and easy maintenance, FCUs are available in various configurations such as floor-mounted, ceiling-concealed, or wall-mounted. Their modular design allows seamless integration with central HVAC systems, ensuring consistent indoor comfort.

KEY BENEFITS

- Compact design
- Insulated SS Drain Pan
- VRS/VRV compatible
- 3/4 rows cooling coil
- AC motor optional
- Energy Saving

ADDITIONAL FEATURES

- Two way/Three way valve with thermostat
- Heater (Optional)



COILS & MANIFOLD



KEY BENEFITS

- Provides efficient cooling through chilled water circulation.
- Ensures consistent temperature and humidity control.
- Enhances indoor comfort and air quality.
- Energy-efficient compared to direct expansion systems.
- Flexible design suitable for large buildings and varied loads.

ADDITIONAL FEATURES

- Copper Tube Dia- (5/8" & 3/8")
- S.S Tubes
- S.S Fins
- Hydrophillic Fins
- Copper Header

We have in house coils manufacturing plant, we produce Chilled Water Coil, Hot Water Coil, DX Coil. For better and efficient heat transfer we use aluminium fins, on customer requirement for anti corrosive fins, we provide the hydrophilic coated aluminium fins also. For effective cooling in DX coils, we provide the Inner groove tube (IGT). For drain pan, we offers multi-sloping in SS-304, duly insulated with closed -cell nitrile/PUF. Ours coils are compatible with all VRF/VRV outdoor units.

MANIFOLD

Manifold in AHU Coil Connection In an Air Handling Unit (AHU), a manifold is used for distributing and collecting chilled water or hot water to and from the coil. It connects multiple coil circuits to the main supply and return pipes.

Uses of Manifold: Uniform Flow Distribution: Ensures even water flow through all coil circuits for effective heat exchange.

Simplified Piping: Reduces complex piping by combining multiple inlets/outlets into a single header.



Maintenance Ease: Provides accessible connection points for isolation, cleaning, and coil servicing.

Efficiency: Improves overall heat transfer efficiency and stable AHU performance.

GI DUCT



Galvanized Iron Ducts are the backbone of any centralized HVAC system, providing a durable and efficient pathway for air distribution. Made from high-quality GI sheets, these ducts are corrosion-resistant, easy to fabricate, and available in both rectangular and spiral round types. Suitable for commercial, industrial, and institutional buildings, GI ducts ensure leak-proof performance and long service life. Custom sizes, thicknesses, and accessories like dampers and access doors are available upon request.

KEY BENEFITS

- GI sheet 18/22/24 gauge
- Rectangular, square, offset & elbow shapes
- Leakage proof
- No Lead Time

ADDITIONAL FEATURES

- S.S sheet duct

ELECTRICAL PANEL

An electrical panel for an Air Handling Unit (AHU) is a dedicated control and power distribution board that supplies, protects, and controls the electrical equipment of the AHU. It houses components such as circuit breakers, contactors, overload relays, variable frequency drives (VFDs), and control modules. Key Functions: Power Distribution: Supplies electricity to motors, fans, pumps, and accessories. Protection: Provides protection against overload, short-circuit, and phase faults. Control: Enables start/stop, speed regulation (via VFD), and integration with Building Management System (BMS). Monitoring: Includes indicators, meters, and alarms for safe operation and status monitoring. Importance: The panel ensures safe, efficient, and reliable operation of the AHU, while allowing operators to manage airflow, temperature, and energy consumption effectively.



MODULAR OT



The Modular OT is a turnkey solution designed for modern surgical environments that demand stringent air purity, sterility, and control. Built using antimicrobial, non-porous wall and ceiling panels, along with integrated laminar airflow systems and HEPA filtration, it meets international healthcare standards such as NABH, HTM, and ISO. Customizable layouts and seamless integration with HVAC and medical gas systems ensure optimal functionality, hygiene, and safety for both patients and staff.

TECHNICAL SPECIFICATION

- Cleanliness: Class 100 & 1000
- Particle retention: 0.3 micron
- Velocity: 90FPM + 20%
- Illumination: 750-800 lumen
- Noise level: 60-65 decibels
- Standard: ISO-14664



CLEAN ROOM VALIDATION

AIR VELOCITY TEST

Air velocity test is important to conduct periodic monitoring of filter attributes such as uniformity of velocity across the filter (and relative to adjacent filters). Variations in velocity can cause turbulence that increases the possibility of contamination. Velocities of unidirectional air should be measured 6 inches from the filter face and at a defined distance proximal to the work surface for HEPA filters in the critical area. Velocity monitoring at suitable intervals can provide useful data on the critical area in which aseptic processing is performed. HEPA filters should be replaced when non uniformity of air velocity across an area of the filter is detected or airflow patterns may be adversely affected. We execute recovery tests for clients across Industries. These tests demonstrate the ability of the clean room to remove particulate by purging the area with filtered air.

HEPA TERMINAL FILTER EFFICIENCY & INTEGRITY TESTING

HEPA filters are an essential component in any Clean Room design. In fact, their use is dictated by GMP regulations. In a properly designed HVAC system for a Pharmaceutical facility, HEPA filters are essential for maintaining the cleanliness (classification) of an area. Therefore, GMP regulations and ISO 14644 guidelines dictate that HEPA filters shall be periodically tested to verify their efficiency and integrity. HEPA filters will lose their efficiency over time due to clogging, they may be ineffective due to improper installation or they could be damaged (holes, rips) during installation or plant maintenance activities. To verify the integrity of HEPA/ULPA filters and to stay in conformance with various standards and/or governing agency requirements, filters should be tested and evaluated at potentiality twice annually. Proper documentation and certification also helps predict potential performance issues and increases filter life.



CLEAN ROOM VALIDATION

NON VIABLE PARTICLE COUNT TEST:

Aerosol Particle Counters are used to determine the air quality by counting and sizing the number of particles in the air. This information is useful in determining the amount of particles inside an Area or in the ambient air. It is also useful in understanding the cleanliness level in a controlled environment. A common controlled environment aerosol particle counters are used is a clean room. Clean rooms are used extensively in semiconductor manufacturing, biotechnology, pharmaceutical, disk drive, aerospace and other fields that are very sensitive to environmental contamination. Clean rooms have defined particle count limits. Aerosol particle counters are used to test and classify a clean room to ensure its performance is up to a specific clean room classification standard. We provides complete airborne particle count cleanliness classification test is performed to determine the actual particle count level within the facility at the time of the test (As-Built, At-Rest, or Operational).

AIRFLOW DIRECTION TEST

The purpose of the airflow parallelism test is to show the actual airflow pattern throughout the unidirectional cleanroom. It can also be used to demonstrate the effects on airflow caused by equipment. This test should be performed after all airflow velocity and uniformity tests and room pressurization tests have been performed.

STANDARD AND REGULATION

The preparation of the Documents and the Execution of the OQ testing are in accordance with the following guidelines, as a minimum:

- EU-GMP
- USFDA
- ISO 14644

All testing and measurements are accomplished by the use of special ISO Certified calibrated Instrument.

ACTIVITY IN VALIDATION

- Air Velocity measurement & ACPH Calculations.
- Differential Pressure Balancing
- Filter Leak Test (PAO Test)
- Particle Count
- Recovery Test
- Thermal Temperature Mapping
- Air Flow Pattern
- Sound Level Test
- Light Intensity Testing
- Indoor Air Quality (IAQ)



CLIMATE GRIP INFRASTRUCTURE



MANUFACTURING UNIT - I (PUNJAB)

Climate Grip establishment in 2001, Climate Grip has remarkably achieved a firm position as a premier Air Handler Manufacturer having two facilities in India.

We have good factory premises space for comfort working atmosphere & storage facilities for raw material, semi-finished and finished goods.

We have a family of experience skilled & semi-skilled worker both in house and on sites.

We are in state of art manufacturing facility with CNC/NC machinery for production includes, punching, sheet shearing, power press, Mechanical tube expander, PUF filling machine & bed for all reputed make.

We work like team to achieve our goal & ready to accept any challenge.

MANUFACTURING UNIT - II (MUMBAI)



MOST VALUABLE CLIENTS



MOST VALUABLE CLIENTS



FEW OF OUR SUBSEQUENT CLIENTS

PHARMA

M/S.NAXPAR PHARMA PVT. LTD.
M/S.MOREPEN
M/S.CADILA HEALTHCARE
M/S.HETERO LABS LIMITED UNIT-II
M/S.ALKEM LABORATORIES LIMITED(UNIT-I)
M/S.INDOCO REMEDIES
M/S.GLENMARK
M/S.TRIOKA
M/S.CORAL LABORATORIES
M/S.PANACEA BIOTECH
M/S.EVA GROW PACKAGES
M/S.PROSPERITY PHARMA
M/S.BETA DRUGS
M/S.MYROCHEM
M/S.PHARMA GLANCE
M/S.VARTIKA CHEMICALS
M/S. ZUCHE
M/S.HEADWAY
M/S.INVENTRIYA
M/S.ARK
M/S.ARYATECH LIFE SCIENCE
M/S.ARYA TECH LIFE SCIENCES(P)LTD.,
M/S.ADLEY LAB
M/S.DEFT ORGANISATION+HELIOUS
M/S.MEDIRIN PHARMACEUTICALS PVT. LTD.
M/S.METRO BUILDCON PRIVATE LIMITED
M/S.MYROCHEM
M/S.AMOL PHARMACEUTICALS PVT. LTD.
M/S.PDVP PHARMA
M/S.SARV BIO LABS PRIVATE LIMITED.
M/S.POLYPLAST
M/S.EYESTAN
M/S.SURYA HERBAL
M/S. WESTERLIN DRUGS PVT. LTD.
M/S.NANZ MEDSCIENCE
M/S.GLIDECHEM
M/S.9M INDIA PVT. LTD.
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M/S.ASPIRE SOLUTIONS
M/S.DHARMOCARE LABS PVT. LTD.
M/S.ELVIACARE PVT. LTD.

PHARMA

M/S. FARMA HUB OVERSEASE PVT. LTD.
M/S.INVIGORATE BIOTECHNOLOGIES LLP
M/S. KESAR DRUGS PRIVATE LTD.
M/S.KWALITY PHARMACEUTICALS LIMITED
M/S.R.S.TOOLS & DESIGN CENTER PVT. LTD.
M/S.SEMPLON REMEDIES PRIVATE LIMITED
M/S.SHREE NATH LIFE SCIENCES PVT. LTD UNIT-2
M/S.SHRESH SERVICES & SOLUTIONS (OPC) PVT.LTD
M/S.VARAV BIO GENESIS PVT. LTD.
M/S C-SEC TECHNOLOGIES

HOSPITALS

PARAS HOSPITAL
SHELBY HOSPITAL
SARVOYADYA HOSPITAL
SELVI HOSPITAL
MANKIND HOSPITAL
INDUS HOSPITAL
SRI SAI HOSPITAL
AAROGYAM HOSPITAL
IYO HOSPITAL
VAIDEHI HOSPITAL
SUHANI HOSPITAL
PRECISE HOSPITAL
PANNU HOSPITAL
NEW BALA JI HOSPITAL
MUKESH HOSPITAL
JP HOSPITAL YAMUNA NAGAR
JP HOSPITAL ZIRAKPUR
IVY HOSPITAL MOHALI
IVY HOSPITAL HOSIYARPUR
GUPTA EYE HOSPITAL
GROVER HOSPITAL
DIVINE HOSPITAL
REHGAL MULTI SPECIALIST HOSPITAL
MAX HOSPITAL MOHALI

COMMERCIAL

CROWN INTERIORZ MALL
PRABHATAM MALL
ELANTE MALL
HOMELAND HEIGHTS NORTH COUNTRY MALL
CSJ INFRA
ANJAN MALL

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A Venture Unit of:-



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We Deliver"*

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