RP AIR SOLUTIONS

WE CLEAN AIR

CLEANER
SAFER
GREENER
TOMORROW



ENGINEERED AIR SOLUTIONS FOR A CLEANER TOMORROW

PROCESS EXHAUST SYSTEMS FOR PV CELL
SEMI-CONDUCTOR PROCESS SOLUTIONS
CUSTOMIZED ENGINEERING SOLUTIONS
PLASTIC DUCTING FABRICATION & OTHERS

INDUSTRY
PEOPLE
ENVIRONMENT

ABOUT
RP AIR SOLUTIONS

WE CLEAN AIR
FOR BETTER
TOMORROW

RP AIR SOLUTIONS is an integrated solution supplier specialised in turnkey ventilation and air pollution control systems. Our areas of competence include air pollution control system design, manufacture, installation, and maintenance. Our goal is to deliver the highest-quality systems possible that are energy-efficient, long-lasting, and serviceable.

Every project is tailored to meet our customers' current requirements and future needs. We deliver complete turnkey systems backed by a performance guarantee, with designs that optimize capital investment and operating costs.

Our team brings a decade of experience in developing industrial air handling systems, Process exhaust systems, ventilation solutions, and fan technologies. Supported by a dedicated group of engineers, we provide comprehensive engineering solutions at competitive prices, backed by timely delivery and responsive after-sales support.

We understand that a capital investment requires a partner who listens, advises, designs, and works alongside you. At **RP AIR SOLUTIONS**, we believe in building long-term relationships with our customers and business partners. By working together, we develop effective, reliable solutions that deliver lasting value.

INNOVATION
Continuously improving for a better tomorrow

QUALITY
Engineered for reliability and long life

SUSTAINABILITY
Solutions to support a cleaner planet

CUSTOMER FOCUS
Your challenges drive our solutions



MISSION

To be a company which provide effective air pollution control system by delivering clean and healthy work environment to satisfy specific customer needs

GO GREEN
TO BREATHE
CLEAN.

VISION

Believes in partnership, reliability and Innovation and wants to be a worldwide providing service in Air Pollution Control Systems and customized solutions.
We aim to providing environmentally safe and robust air solutions for healthier workplace.

Lend a hand and save our atmosphere. Stop air pollution

PARTNERS

RP AIR SOLUTIONS

RP AIR SOLUTIONS is guided by its esteemed partners, Mr. Rahul G.M., Mr. Panchaksharayya G, and Mr. Nandish Kumar S., each of whom possesses considerable expertise in sales and marketing while contributing distinguished capabilities in design and engineering.

All three partners hold degrees in Mechanical Engineering and collectively possess more than ten years of professional experience in design and manufacturing sectors. Their integrated proficiencies in strategic leadership, technological advancement, and operational execution enable the company to provide dependable, tailored solutions across the solar, semiconductor, battery, electroplating, and related industries.

Operating from a 1,20,000-square-foot facility with a team of over 150+ professionals, we have built a strong reputation for quality, reliability, and technical expertise.

Since our inception, we have placed our customers at the heart of our work, developing tailored solutions that meet their specific process requirements and building lasting partnerships through quality, responsiveness, and dependable support.



OUR SOLUTIONS

COMPLETE
FUME EXTRACTION
SOLUTIONS
AND PLASTIC PIPING



PROCESS EXHAUST SYSTEMS

Designs and supplies customized process exhaust systems for the solar, semiconductor, battery industries and other industries. Our systems capture and extract process-generated fumes, vapours, gases, and airborne contaminants at the source, helping protect personnel, equipment, and the working environment. Each solution integrates suitable ducting, exhaust fans, and treatment equipment to deliver reliable performance, energy efficiency, and ease of maintenance.



PLASTIC DUCTING FABRICATION

Designs, fabricates, and installs PPH, PPS, FRP, SS and GI ducting for process exhaust and fume extraction systems in the solar, semiconductor, and chemical industries. These ducting systems convey corrosive fumes, vapours, and gases, with materials selected to suit the process chemistry, temperature, and fire-performance requirements. Custom-fabricated ducts and fittings provide reliable airflow, durable welded joints, and ease of maintenance.



SEMICONDUCTOR PROCESS TOOL FABRICATION

Provides customized fabrication solutions for semiconductor process equipment, including wet benches, chemical processing tanks, equipment enclosures, exhaust hoods, and duct connections. Using materials selected for chemical compatibility, such as PPH, PPH V0 and PPs, we focus on precise fabrication, durable welded joints, corrosion resistance, and ease of maintenance. Each solution is tailored to the tool's process requirements, dimensions, and exhaust integration needs.



INDUSTRIAL PROCESS & STORAGE TANKS

Designs and fabricates customized process and storage tanks in Polypropylene Homopolymer (PPH), Polyvinyl Chloride (PVC), Fibre Reinforced Plastic (FRP), Stainless Steel (SS), and Mild Steel (MS) for chemical storage, surface treatment, rinsing, and industrial processing. Serving the solar, semiconductor, electroplating, and other industrial sectors, we select materials based on chemical compatibility, operating temperature, and application requirements. Each tank is engineered to the required capacity and installation conditions, with suitable reinforcement, protective linings, and accessories as needed.

OUR SOLUTIONS

COMPLETE
FUME EXTRACTION
SOLUTIONS
AND PLASTIC PIPING



ELECTROPLATING SYSTEMS & AUTOMATION

Provides customized engineering solutions for electroplating industries, including process tanks, automated material handling, fume extraction, and ventilation systems. Our solutions incorporate PPH, PVC, FRP, SS, and MS materials selected to suit the process chemistry and operating conditions. PLC-based controls, automated hoists, and controlled process sequencing support consistent treatment cycles, reduced manual handling, and improved productivity. Each system is designed around the customer's production capacity, component specifications, and plant layout.



CUSTOMIZED ENGINEERING SOLUTIONS

We turn complex process requirements into practical engineering solutions for the solar, semiconductor, and other industries. Our scope includes ventilation and process exhaust systems, air pollution control equipment, chemical -resistant tanks, and specialised fabrication. We work closely with customers from concept to commissioning, developing solutions that fit their operations, improve efficiency, and support future growth.



PROCESS EXHAUST SYSTEMS

PROTECTING
PEOPLE
PROCESSES
AND THE PLANET

- Removal of corrosive and hazardous fumes
- Improved workplace safety and air quairty
- Customized designs for various industries
- Durable and low maintenance systems



RP AIR SOLUTIONS designs and delivers customized process exhaust systems to capture and convey fumes, vapours, and gases generated during industrial operations. Our solutions serve various industries, supporting a safer working environment and reliable process operation.

SOURCE CAPTURE & EXTRACTION
Exhaust hoods, tank-side extraction slots, enclosures, and equipment connections are designed to capture emissions close to their source, helping limit their spread into the workplace.

APPLICATION-SPECIFIC DUCTING
Ducting materials—including PPH, flame-retardant polypropylene (PPs), PVC, and FRP—are selected according to the exhaust chemistry, temperature, and operating conditions. Duct supports, joints, and fittings are engineered for durability and system integrity.

FUME TREATMENT & DISCHARGE
Suitable exhaust streams can be routed through scrubbers and mist eliminators to treat specific contaminants before discharge. Treatment equipment is selected based on the type of emission, concentration, airflow, and required performance.

AIRFLOW & PRESSURE MANAGEMENT
Duct sizing, pressure-loss calculations, fan selection, and damper positioning help achieve the required extraction at each process point. System balancing supports consistent airflow across multiple equipment connections.

AUTOMATION & MONITORING
PLC-based controls, variable-frequency drives, pressure sensors, and operating alarms can be incorporated to monitor system performance and regulate fan operation. Equipment interlocks can coordinate exhaust availability with process operation.

COMPLETE PROJECT EXECUTION
Our scope covers engineering, fabrication, supply, installation, testing, balancing, and commissioning. Each system is developed around the customer's process requirements, plant layout, and maintenance access needs.

Chemical | Pharmaceutical | Electronics | Laboratory | Renewable Energy

PLASTIC DUCTING
FABRICATION

PROCESS EXHAUST
SYSTEMS ENGINEERED
VENTILATIONSOLUTIONS



PPH, PPS, PPGL+FRP Ducting Systems

High chemical resistance

Precision fabrication and installation

Leak-proof and durable design

PPH, PPs, PP+FRP, SS & GI DUCTING SYSTEMS

RP AIR SOLUTIONS designs, fabricates, and installs customized ducting systems for process exhaust, fume extraction, general exhaust, and ventilation applications. Our range includes PPH, flame-retardant polypropylene (PPs), PP+FRP, Stainless Steel (SS), and Galvanized Iron (GI) ducting, selected according to the exhaust composition, temperature, pressure, and installation condit

PPH DUCTING

Polypropylene Homopolymer (PPH) ducting offers resistance to many acids and alkalis, making it suitable for a range of corrosive fume extraction applications. Its lightweight construction and weldability support customized fabrication of ducts, elbows, branches, reducers, and equipment connections. Material suitability is assessed against the chemical concentration and operating temperature.

PPS DUCTING

Flame-retardant polypropylene (PPs) ducting combines polypropylene's chemical resistance with flame-retardant properties suited to specified project requirements. It is used in process exhaust applications where both chemical compatibility and fire performance influence material selection. The material grade is selected for the service conditions.

PP+FRP COMPOSITE DUCTING

PP+FRP ducting combines a polypropylene inner liner with external glass-fibre-reinforced plastic reinforcement. The PP liner provides the chemical-contact surface, while the FRP layer adds structural strength and rigidity. This construction is suitable for applications requiring corrosion resistance together with additional reinforcement, including larger ducts and systems operating under negative pressure.

STAINLESS STEEL & GI DUCTING FOR GENERAL EXHAUST

SS & GI ducting provides durable construction for general exhaust and selected process applications where cleanliness, temperature resistance, or corrosion resistance is required. The stainless steel grade, sheet thickness, and joint construction are selected according to the exhaust conditions. Smooth internal surfaces also support cleaning and maintenance.

ENGINEERED AIRFLOW & SYSTEM INTEGRATION

Duct sizing, routing, pressure-loss calculations, and support arrangements are developed to achieve the required airflow at each extraction point. Dampers, flexible connections, access doors, and suitable joints can be incorporated to connect the duct network with hoods, scrubbers, fans, and discharge stacks.

DUCTING MATERIALS



PPH
(Polypropylene Homopolymer)



PPS
(Polyphenylene flame retardent)



PPGL + FRP
(Polypropylene + FRP)

PPH, PPs & FRP
TANKS

BUILT FOR
CORROSIVE
ENVIRONIMENTS



Designs and fabricates customized PPH (polypropylene homopolymer) and Fibre Reinforced Plastic (FRP) tanks for chemical storage, surface treatment, rinsing, and industrial processing. Each tank is engineered to suit the process chemistry, operating temperature, capacity, and installation requirements.

PPH PROCESS & CHEMICAL STORAGE TANKS

Polypropylene Homopolymer (PPH) tanks offer resistance to many acids and alkalis, along with good rigidity and weldability. They are suitable for a range of chemical processing, electroplating, pickling, and rinsing applications. Tank thickness and external reinforcement are selected according to the dimensions, liquid load, and operating conditions.

FRP STORAGE & PROCESS TANKS

FRP tanks combine a resin-based corrosion barrier with glass-fibre reinforcement to provide chemical resistance and structural strength. Resin systems are selected to suit the stored medium and service conditions. FRP tanks can be manufactured in cylindrical or rectangular configurations for chemical storage, water treatment, effluent handling, and other industrial applications.

CUSTOMIZED DESIGN & CONFIGURATION

Tanks are developed around the required working volume, available space, and process arrangement. Options include open-top or covered construction, sloped bottoms, compartments, support structures, and access provisions for inspection and maintenance.

ELECTROPLATING
PLANTS

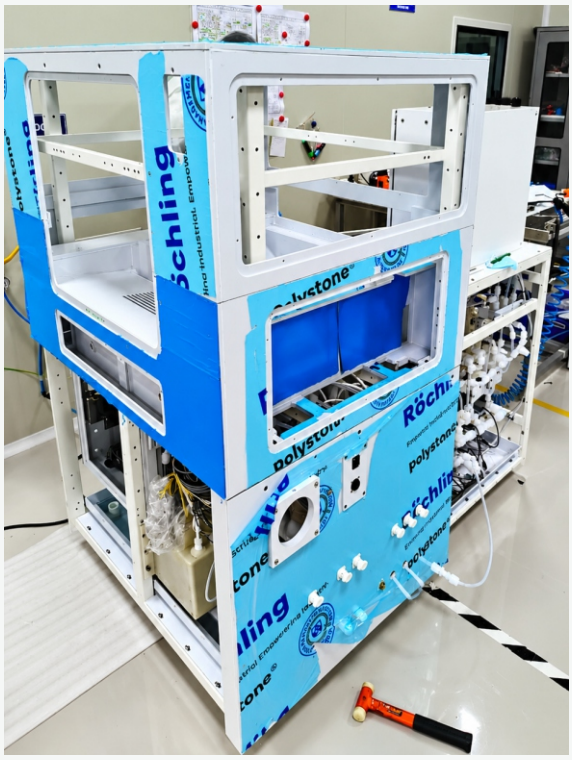
Designs and manufactures customized electroplating plants for metal coating and surface treatment applications. Our solutions include process tanks, material handling systems, fume extraction, and optional automation. Each plant is tailored to the customer's process requirements, production capacity, and available space, supporting consistent coating quality and efficient operation.

- Automated Material Handling
- PLC-Based Control & HMI Operation
- Process Sequencing & Recipe Management
- Process Monitoring & Control
- Safety Interlocks & Equipment Coordination
- Production Tracking & Maintenance Support
- Complete System Integration



SEMICONDUCTOR
PROCESS TOOL FABRICATION

YOUR CHALLENGE
OUR ENGINEERING
EXPERTISE



- High-precision fabrication
- Compatible with critical process requirements
- Clean and contamination-free solutions
- Engineered for reliability and long service life

CUSTOMIZED ENGINEERING SOLUTIONS

- Fresh Air Ventilation System
- Scrubber's
- PPS (Fire Retardant) / PPH Ducting
- PPH/PE-100/PVDF/PVC/FRP Tanks
- Centrifugal Blowers
- Ducting
- Acid Resistant Lining
- Formation Tubs and Conveyors
- Electroplating Process Plants
- Semiconductor Process Equipment's
- Solor PV Cell Process Exhaust



ADVANCED MACHINERY & MANUFACTURING CAPABILITIES

- Modern Manufacturing Facilities
- High Production Efficiency
- Precision Fabrication
- Large-Scale Production
- On-Time Project Completion
- Consistent Quality
- Advanced Fabrication Techniques
- Customized Manufacturing
- Seamless Project Execution
- Continuous Improvement
- Skilled Machine Operations
- Commitment to Excellence











OUR PEOPLE, OUR STRENGTH

"Behind Every Great Project Is a Team of Dedicated Professionals."

At RP Air Solutions, our employees are the driving force behind the successful execution of large-scale industrial projects. With technical expertise, hands-on experience, and a strong commitment to excellence, our skilled workforce handles complex engineering challenges with precision and efficiency. From planning and manufacturing to installation and project execution, every team member plays a vital role in delivering high-quality solutions. Our dedication to teamwork, innovation, safety, and timely delivery enables us to confidently undertake challenging projects while maintaining the highest standards of quality and customer satisfaction.



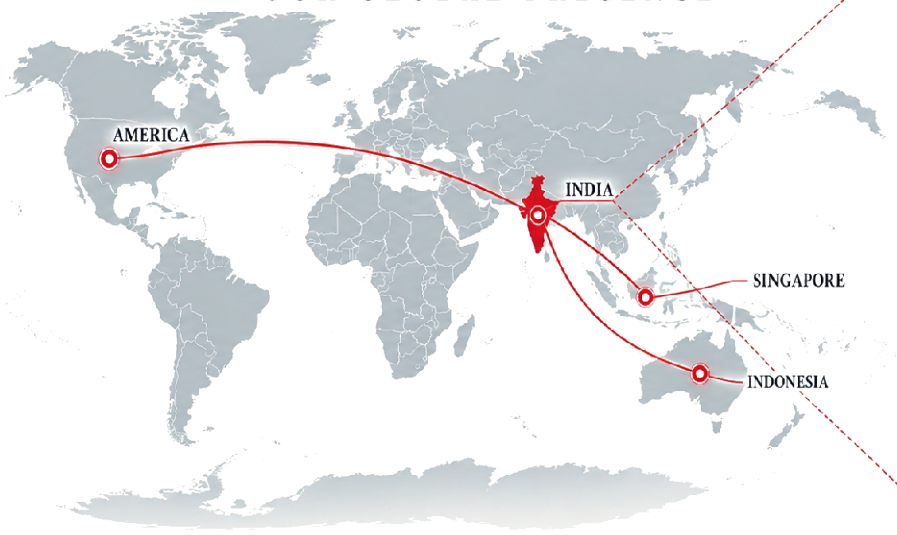




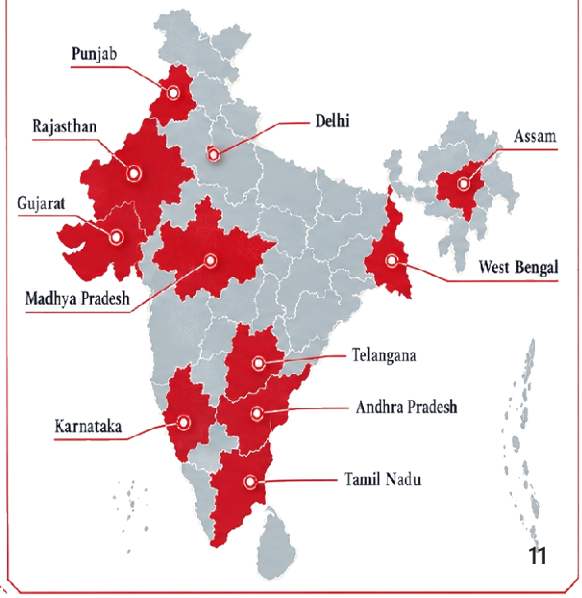


RP AIR SOLUTIONS

OUR GLOBAL PRESENCE



OUR PRESENCE IN INDIA



LET'S BUILD A CLEANER TOMORROW TOGETHER

PARTNERS
IN PROGRESS
FOR A CLEANER
PLANET



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GO GREEN