

COMPANY PROFILE

AVS GLOBAL INNOVATION PRIVATE LIMITED

Electrical, Automation & Energy Solutions for Industry

One partner for your plant's power, control, air and energy – from design to commissioning and maintenance.

01

Power Panels

PCC · MCC · APFC · distribution boards

02

Industrial Automation

PLC · SCADA · VFD · BMS · EMS

03

Solar Energy

On-grid rooftop solar

04

HVAC & Cleanroom Turnkey

AHUs · ducting · filtration · cleanrooms

IMT MANESAR · GURUGRAM · HARYANA

SERVING DELHI-NCR



ABOUT US

From Voltas dealer to one partner for the whole plant.

AVS Global Innovation Private Limited was incorporated on 26 August 2025, with its registered office at IMT Manesar, Gurugram. We started as an authorised Voltas dealer for VRV/VRF air-conditioning and have supplied about ₹1 crore of Voltas systems.

Air-conditioning never works alone. Every system needs a power feed, a control panel and a plan for what it will cost to run. So we widened our scope to cover the utilities that sit around it.

Today we work in four service lines: power panels, industrial automation, solar energy, and HVAC & cleanroom turnkey projects. Our HVAC and cleanroom products are manufactured by ABS Air Tech Pvt Ltd – an ISO 9001:2015 certified company with factories at IMT Manesar and Rewari, in business since 2012. AVS delivers them turnkey.

> One partner for a plant's power, control, air and energy – from design to commissioning and maintenance.

VISION

To be the engineering partner that plants in Delhi-NCR trust with their power, control, air and energy.

MISSION

To design, deliver and maintain plant utilities that are safe, well documented and economical to run – and to stay accountable long after handover.

2025
Incorporated on 26 August 2025

~₹1 Cr
Voltas VRV/VRF systems supplied

4
Service lines under one team

65,000 sq ft
Partner manufacturing – ABS Air Tech, IMT Manesar and Rewari

WHO WE SERVE

Pharma, food & beverage, electronics / ESD, automotive & engineering, and paint, glass & chemicals plants – and commercial buildings.

WHERE WE WORK

Delhi-NCR: Gurugram, Manesar, Bawal, Faridabad, Sonipat, Kundli, Noida and Greater Noida.

WHY AVS

One partner for the whole plant.

A plant's power, controls, air and energy usually come from four different vendors. When they meet at site, the gaps between them become your problem. We bring all four under one team.

POWER
Power Panels
PCC, MCC and APFC panels, distribution boards

CONTROL
Industrial Automation
PLC, HMI, SCADA, VFDs, BMS and energy monitoring



AIR
HVAC & Cleanroom Turnkey
AHUs, ducting, filtration, cleanrooms and equipment

ENERGY
Solar Energy
On-grid rooftop solar, net-metering liaison and O&M

DESIGN → SUPPLY → INSTALLATION → COMMISSIONING → MAINTENANCE

01
Single window
Power, control, air and energy from one team. One point of contact, one schedule and one party responsible for the interfaces.

02
Factory-direct HVAC
AHUs, ducting, filters and cleanroom panels come straight from ABS Air Tech's factories at IMT Manesar and Rewari – no trading layer in between.

03
Engineered, not just supplied
We size it, draw it and document it before we quote. Load lists, single-line diagrams and layouts come first; material follows.

04
Energy first
Every design is checked for running cost. APFC, VFDs, EC fans, energy monitoring and rooftop solar go in wherever they pay back.

05
Documented handover
As-built drawings, test reports, settings and manuals are handed over as one file at commissioning.

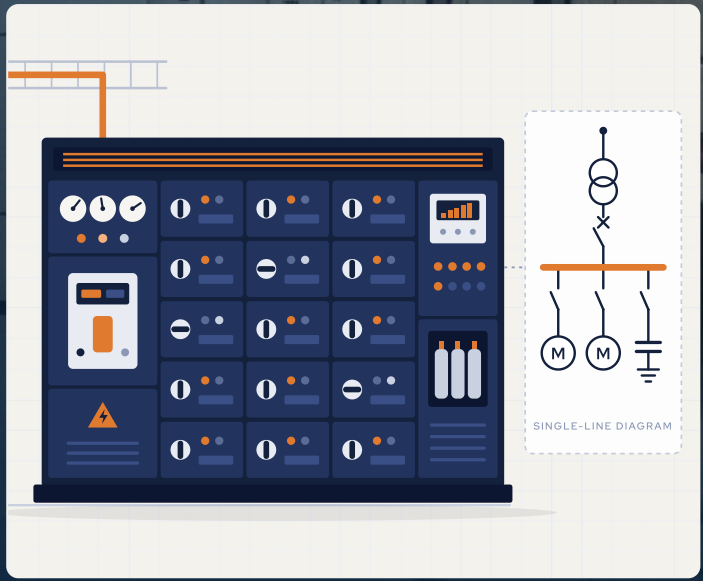
06
Here after handover
AMC, breakdown support and retrofits from a team based at IMT Manesar, close to the plants we serve.

SERVICE LINE 01

Power Panels

LT panels designed around your load list, built by type-tested fabrication partners, and installed, tested and commissioned by our team.

01



WHAT WE DELIVER

01 **LT PCC and MCC panels**
Power and motor control centres for plant and utility loads.

02 **APFC panels**
Automatic power-factor correction, sized to your load profile.

03 **Main and sub-distribution boards**
MDBs and SDBs for production blocks and buildings.

04 **AHU, chiller and VFD control panels**
Starters and drives for HVAC and process utilities.

05 **Installation, testing and commissioning**
Erection, termination, testing and energisation at site.

06 **Retrofits and maintenance**
Switchgear replacement, panel modifications and upkeep.

SUPPLY

ACB · MCCB · MCB · Contactors · Relays · Cables · Lugs · Meters · CTs

TYPICAL APPLICATIONS

- Power distribution for a new plant, line or block
- Motor control for utilities – pumps, compressors and blowers
- HVAC plant rooms – AHU, chiller and VFD panels
- Power-factor correction to avoid penalties on the electricity bill
- Replacing ageing panels and obsolete switchgear

HOW WE WORK

01 **Load list and SLD**
We collect your loads and draw the single-line diagram.

02 **Drawings and BOQ**
General-arrangement drawings and BOQ for your approval.

03 **Fabrication**
Built through type-tested fabrication partners.

04 **Install and test**
Erection, termination and testing at site.

05 **Commission and hand over**
Energised, with as-built drawings and test reports.

One responsibility
From single-line diagram to energisation, one team answers for the panel.

Type-tested build
Assemblies fabricated through type-tested partners.

Lower electricity cost
Correctly sized APFC helps you avoid power-factor penalties.

SERVICE LINE 02

Industrial Automation

Controls that keep machines, utilities and cleanrooms running to set-point – and show you what they consume.

02



WHAT WE DELIVER

01 **PLC and HMI programming**
New logic, modifications and operator screens.

02 **SCADA**
Plant-level monitoring, alarms, trends and reports.

03 **VFD drives and panels**
Speed control for fans, pumps and other motor loads.

04 **BMS for HVAC and cleanrooms**
Temperature, humidity and differential-pressure control.

05 **Energy monitoring systems (EMS)**
Consumption metered by feeder, line or utility.

06 **Control retrofits and AMC**
Upgrades to ageing controls, with annual maintenance.

SUPPLY

PLCs · HMIs · VFDs · Sensors · Transmitters · SSRs · Power supplies

TYPICAL APPLICATIONS

- AHU and cleanroom control through a BMS
- Pump, fan and blower control with VFDs
- Utility monitoring – chillers, compressors and air washers
- Plant-wide energy dashboards
- Upgrading relay-based panels to PLC control

HOW WE WORK

01 **Study and I/O list**
We map signals, sequences and what the operator needs to see.

02 **Control philosophy**
Architecture, panel design and BOQ for your approval.

03 **Build and program**
Panels built, logic and screens written and bench-tested.

04 **Commission**
Loop checks, tuning and trial runs at site.

05 **Train and support**
Operator training, program backups and AMC.

Stable conditions
Temperature, humidity and pressure held to set-point.

Energy you can see
Consumption measured by feeder, line or utility.

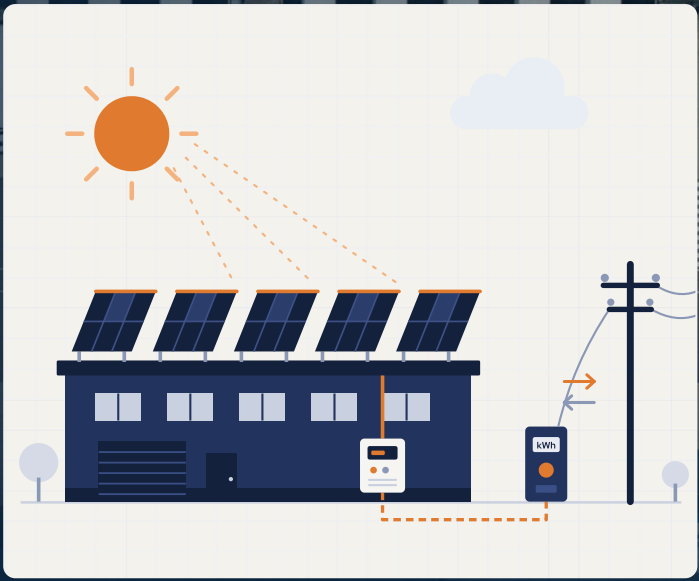
You own the logic
Programs, backups and drawings handed over with the system.

SERVICE LINE 03

Solar Energy

On-grid rooftop solar for factories and commercial buildings – with the numbers shown before you commit.

03



WHAT WE DELIVER

01 **Site survey and shadow analysis**
Roof condition, usable area and shading studied on site.

02 **Structure design**
Mounting structures designed for your roof type.

03 **Supply and installation**
Modules, inverters, structures and balance of system.

04 **Net-metering liaison**
Application and follow-up with your DISCOM.

05 **Operation and maintenance**
O&M to keep the plant generating after handover.

EVERY PROPOSAL SHOWS

kWh
Expected generation per year

₹
Savings on your electricity bill

Years
Payback on the investment

SUPPLY

- ALMM-listed modules
- Inverters
- Mounting structures
- Balance of system

TYPICAL APPLICATIONS

- Factory roofs – metal sheet and RCC
- Commercial building rooftops
- Plants with high daytime consumption

HOW WE WORK

01 **Survey**
Site visit, roof study and shadow analysis.

02 **Design and proposal**
Layout and structure design, with kWh, savings and payback.

03 **Supply and install**
ALMM-listed modules, inverters, structures and balance of system.

04 **Net metering**
Liaison with the DISCOM for the net-metering connection.

05 **O&M**
Operation and maintenance after commissioning.

Numbers first
Expected kWh, savings and payback in every proposal.

Listed modules
ALMM-listed modules, with inverters and structures to match.

One team to the grid
Solar, the LT panel it feeds and the net-metering paperwork – handled together.

SERVICE LINE 04

HVAC & Cleanroom Turnkey

Manufactured by ABS Air Tech. Delivered turnkey by AVS. Air handling, ducting, air distribution and filtration come from our manufacturing partner's factories at IMT Manesar and Rewari. AVS designs, installs and commissions the system.



Modular air handling unit

4.1

Air handling

- **AHUs up to 1,00,000 CFM** – single or double skin; floor, ceiling, vertical and double-decker
- **ASU, TFA and FFU** – air supply, treated fresh air and fan filter units
- **Air washers** – energy-efficient, with EC fans; evaporative cooling (FDV)
- **Central HVAC** – chillers, Voltas VRV/VRF, pumps and piping
- **Plant ventilation** and spot cooling



Air handling unit with ducting and piping

4.2

Ducting

- **Shapes** – rectangular, spiral and spiral-oval
- **Materials** – GI, PPGI, aluminium, SS, MS, PP and FRP
- **Standards** – SMACNA, DW-142/144 and ASHRAE, with on-site leak testing
- **Accessories** – attenuators, dampers and insulation



Rectangular ducting



Spiral-oval ducting

4.3

Air distribution

- **Air terminals** – diffusers, jet nozzles and grilles
- **Dampers** – volume-control, butterfly, opposed-blade and fire dampers



Spiral duct with grilles



Volume-control damper

4.4

Filtration

- **Filter types** – pre, fine, bag, HEPA, ULPA, metallic and carbon
- **HEPA construction** – deep-pleat, mini-pleat and gel-seal
- **Grades** – G1 to U17



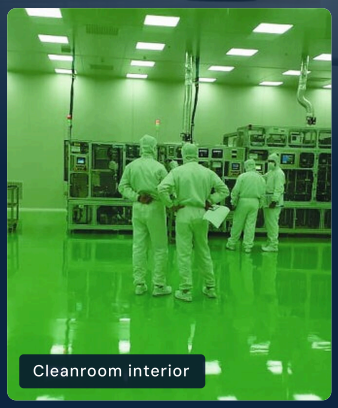
Bag filters

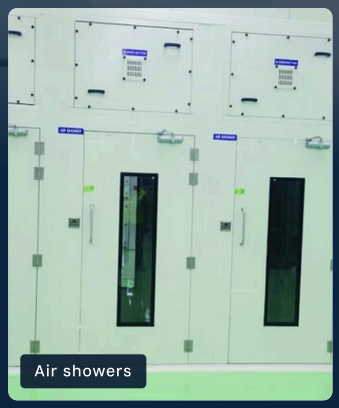
Product photographs on pages 7–9 courtesy of ABS Air Tech Pvt Ltd, our manufacturing partner. Images are representative of the product range.

Cleanrooms, Class 100 to 1,00,000

Panels, doors, flooring, equipment and services – supplied as one package and validated before handover.


View panels


Cleanroom interior


Air showers



Air shower with entry gates


Sliding door


Electronics assembly area

Construction

CLEANLINESS CLASS
Class 100 to Class 1,00,000

WALL AND CEILING PANELS
PUF, PIR, Rockwool and honeycomb, 40–100 mm thick

DOORS
Swing, sliding, automatic and interlocked

GLAZING
View panels

FLOORING
Epoxy, PVC, antistatic and PU

Equipment

- Air showers
- Static and dynamic pass boxes
- Laminar air flow units
- Sterile garment cabinets
- Dispensing booths
- ESD check machines


Laminar air flow unit


Laminar flow bench

Services

Humidity control
Cleanroom electrical
Fire alarm
PA system
BMS
Validation
Training
AMC

Special environments

- Cold rooms down to -20 °C
- Acoustic rooms
- Emission labs
- Oil-mist, fume and dust collectors
- Electrostatic precipitators (ESPs)

Product photographs on pages 7–9 courtesy of ABS Air Tech Pvt Ltd, our manufacturing partner. Images are representative of the product range.

HOW WE DELIVER

Six steps. One accountable team.

The same sequence on every job – whether it is a single panel or a complete cleanroom.

01 →

Survey & concept

We visit the site, collect loads and conditions, and come back with a concept and a budget estimate.

02 →

Detailed design

Calculations, single-line diagrams, layouts and a bill of quantities – approved by you before anything is ordered.

03 →

Supply

Panels through type-tested partners, HVAC and cleanroom products from ABS Air Tech, ALMM-listed solar modules.

04 →

Installation

Site work supervised by our team and planned around your production schedule and safety rules.

05 →

Validate & commission

Leak tests, loop checks and trial runs. Cleanroom validation where required. Reports and as-built drawings handed over.

06 ↻

Maintain

AMC, breakdown support and retrofits. Operation and maintenance for solar plants.

QUALITY COMMITMENTS

- ✓ **Design approved before supply**
  Drawings and BOQ are signed off by you before fabrication or ordering.
- ✓ **Built to recognised standards**
  Ducting to SMACNA, DW-142/144 and ASHRAE, leak-tested on site.
- ✓ **Type-tested panels**
  LT panels fabricated through type-tested partners.
- ✓ **Listed solar modules**
  ALMM-listed modules, with expected kWh, savings and payback stated in the proposal.
- ✓ **Running cost checked**
  Every design is reviewed for energy use before it is finalised.
- ✓ **One handover file**
  As-built drawings, test reports, settings and manuals.



Cleanroom view panels

MANUFACTURING PARTNER

ABS Air Tech Pvt Ltd

Our HVAC and cleanroom products are manufactured by ABS Air Tech and delivered turnkey by AVS. The ISO 9001:2015 certificate is held by ABS Air Tech.

ISO 9001:2015
Certified manufacturer

Since 2012
In business

65,000 sq ft
Factories at IMT Manesar and Rewari, Haryana

~110
Staff

INDUSTRIES WE SERVE

Six sectors. The same four utilities.

We work with plants and buildings across Delhi-NCR. The mix changes from sector to sector; the scope stays the same – power, control, energy and air.

Pharma

Cleanrooms from Class 100 to 1,00,000, AHUs with HEPA filtration, pass boxes, dispensing booths, BMS and validation.

Food & beverage

Air handling and filtration, humidity control, cold rooms down to -20 °C, plant ventilation and utility panels.

Electronics / ESD

Cleanrooms with antistatic flooring, air showers, ESD check machines, fan filter units and BMS.

Automotive & engineering

Plant ventilation and spot cooling, air washers, oil-mist and fume collectors, MCC and VFD panels.

Paint, glass & chemicals

Fume and dust collectors, ESPs, PP and FRP ducting, process ventilation and APFC panels.

Commercial buildings

Voltas VRV/VRF air-conditioning, central HVAC, distribution boards, BMS and rooftop solar.

Our partners

AUTHORISED DEALER

Voltas

VRV/VRF air-conditioning systems. AVS has supplied about ₹1 crore of Voltas systems.

MANUFACTURING PARTNER

ABS Air Tech Pvt Ltd

HVAC and cleanroom products, delivered turnkey by AVS. ISO 9001:2015 certified, with factories at IMT Manesar and Rewari, Haryana.

Voltas and ABS Air Tech are names and trademarks of their respective owners, used here to describe our business relationships.

Details for your vendor file.

LEGAL NAME	AVS Global Innovation Private Limited
CIN	U43219HR2025PTC135531
DATE OF INCORPORATION	26 August 2025
REGISTERED OFFICE	Plot No. 348, Sector 6, IMT Manesar, Gurugram, Haryana 122050
GSTIN	06ABDCA5967D1ZP
DIRECTOR	Chaitanya Rao
AUTHORISATION	Authorised Voltas dealer – VRV/VRF air-conditioning
MANUFACTURING PARTNER	ABS Air Tech Pvt Ltd ISO 9001:2015 certified · factories at IMT Manesar and Rewari, Haryana
BANK DETAILS	Provided on request

VENDOR REGISTRATION

Adding AVS to your vendor list?

Write to us at avsglobalpvtltd@gmail.com. We will send the supporting documents for your vendor form – certificate of incorporation, GST registration and bank details.

QUALITY CERTIFICATION

ISO 9001:2015 is held by our partner

The certificate belongs to ABS Air Tech Pvt Ltd, which manufactures our HVAC and cleanroom products. AVS does not hold it in its own name.

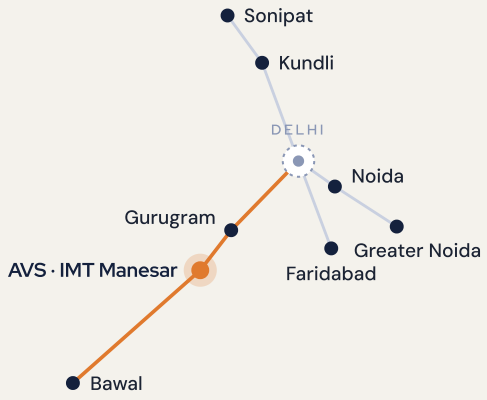
SERVICE AREA

Delhi-NCR

Projects, supply and service calls across the industrial belts around Delhi, from our base at IMT Manesar.

Manesar · Gurugram · Bawal · Faridabad · Sonipat · Kundli · Noida · Greater Noida

● AVS base ● Locations we serve



Schematic – not to scale

DIRECTOR'S MESSAGE

A plant does not need one more vendor. It needs one team that takes responsibility.

AVS is a young company, and I see that as a strength. We have no old habits to defend – only the discipline of doing each job properly, documenting it and standing behind it.

We began by supplying Voltas air-conditioning. That work showed us how much is lost in the gaps between the panel vendor, the controls vendor and the HVAC vendor. So we built AVS to close those gaps: one team for power, control, air and energy, with ABS Air Tech's factories behind everything we deliver in HVAC and cleanrooms.

If you are planning a new line, an expansion or a way to bring your energy cost down, I would be glad to meet you. Come and visit us at IMT Manesar. Walk through our manufacturing partner's plant, see AHUs, ducting and cleanroom panels being built, and tell us what you need.

Chaitanya Rao
Director, AVS Global Innovation Private Limited

Visit the plant

Plant visits at IMT Manesar are by appointment. Call or write to us and we will arrange a walk-through of our manufacturing partner's facility.

CONTACT

Let's talk about your plant.

PHONE
+91 95998 81192 / 88260 90978

EMAIL
avsglobalpvtltd@gmail.com

WEBSITE
avsglobalpvtltd.com

REGISTERED OFFICE
Plot No. 348, Sector 6, IMT Manesar, Gurugram, Haryana 122050

AVS Global Innovation Private Limited · CIN U43219HR2025PTC135531 · GSTIN 06ABDCA5967D1ZP