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**Smart & Sustainable Solutions designed for
 Energy Efficient Environments**

Supporting Buildings Achieve Efficiency Through Smart & Sustainable Building Management Systems.

HVAC | Mechanical | Electrical | Fire Fighting | Utility

ABOUT US

JBI Engineers is ISO Certified professionally managed organization boasting a team experienced in Design, Planning and Project Execution, offering Turnkey solution to every single client across the Nation.

We offer sustainable solutions for multiple applications viz. comfort cooling systems, process cooling, clean rooms, cold rooms, Labs, Data Centers, General & Basement Ventilation, Exhaust, Fire Fighting and Alarm Systems, etc. and our scope of services include complete Mechanical, Electrical and Utility Solutions for various sectors: Residential, Commercial, Institutional, Medical, IT & Non-IT, Industrial projects, Health Sector, Corporates, Retail and Hospitality.

ENERGY-EFFICIENT BUILDINGS

To build a truly green building and obtain the highest ratings, you need a HVACR solution that reduces energy consumption but not at the cost of performance.

HVACR systems in commercial buildings can be challenging. You require a combined solution that will meet the challenge of strict sustainability standards, long-term concerns and high-energy costs.

Typically HVACR systems use more than 40% of a commercial building's energy. You need a solution that turns the table on energy efficient economics and gives you complete control.

With JBI you can achieve them all and build the commercial space of the future!

PRODUCTS OFFER

- Air Washers & Scrubbers
- Air Handling Units & Scrubbers
- Axial / Centrifugal / Duct Fans
- Diffusers / Louvers / SS tanks / Dampers

HVAC INSTALLATION & DUCTING SOLUTIONS

- Packaged Units & Split Systems
- Air Handling Units & Scrubbers
- VRV/VRF System
- HVAC Chiller System
- Air Handling / Fan Coil Units
- Ducting & Insulation

FIRE FIGHTING, SECURITY & ALARM SYSTEMS

CLEAN ROOM SOLUTIONS

COLD ROOM SOLUTIONS

ELECTRICAL ENGINEERING SERVICES

HVAC AUTOMATION

AMC, REPAIR & UTILITY SERVICES

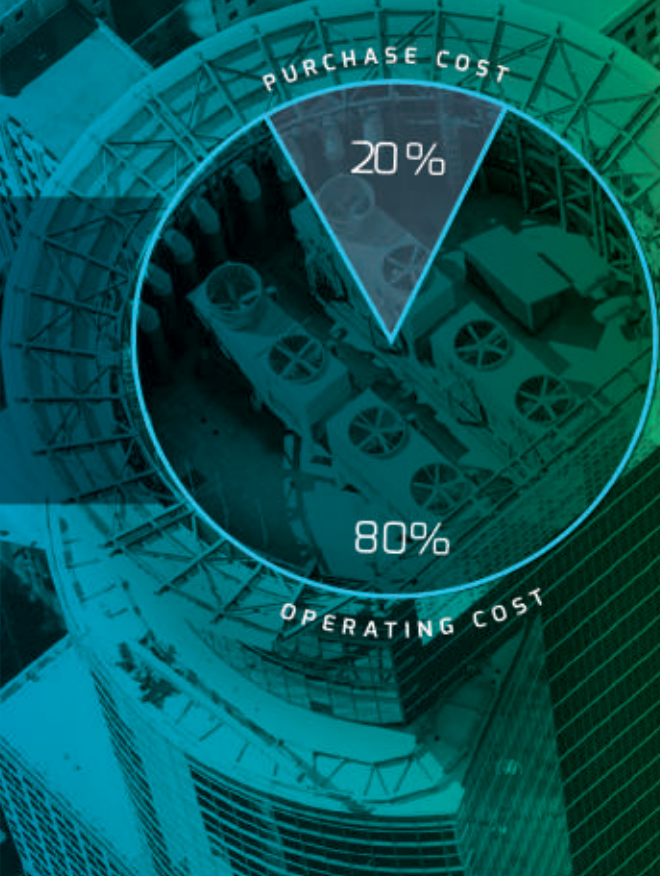
LIFE - CYCLE COST

When operating costs comprise 80% of the life-cycle cost, energy savings become a vital concern.

SAVE ENERGY EVERYDAY

JBI helps you save power in two ways:
Reliable and precise HVAC&R Solutions maintain high efficiency and unburden the cooling systems, hence conserving power and saving operating cost.

With the complete range of services, we are the only ones who can give you complete control with highly customised solutions tailor-made just for you.



CORE VALUES



VISION

Ensuring trust and peace of mind through exceptional quality, unprecedented commitment, value-added service and irresistible prices to our esteemed clients.

To be the largest and the most preferred Mechanical, Electrical, Utility and Fire Fighting contracting firm globally by delivering customer delight through pursuing excellence.

MISSION

OUR SCOPE OF WORK

1. Concept to Commissioning

The business philosophy of JBI is to undertake projects of all sizes, value and complexity on same model and treat each individual project on a "concept to completion" basis. This philosophy acts as a foundation for ensuring total customer satisfaction.

2. Solution Designing & Drafting



Analysis of Layout



Heat Load Calculations



Estimation of Capacity



Full Layout Designing

3. Installation & Commissioning



Pre-installation survey of the places where AC should be installed



Installation by our certified technicians



Post-Installation quality inspection

Installation Process

- | | |
|---------------------------------|----------------------------|
| 1) Need Analysis | 4) Sourcing of Equipment |
| 2) Undertaking course of action | 5) Testing & Commissioning |
| 3) Engineering Drawing | 6) Site handover |

4. Layout Designing

Layouts are designed considering heating, cooling, ventilation, humidifying, dehumidifying, filtering, noise and air distribution aspects to maintain acceptable environments.

The system is designed to ensure that sanitary, hygienic, industrial, fire and emergency requirements are met with established industry standards for construction, installation, performance, energy conservation, and safety.

SECTORS WE SERVE



OUTPERFORMING THE COMPETITION

CLIENTS & PARTNERS

We take pride in strong relationships we establish with our clients and partners spread across PAN India. Our clients include some of the most prominent established brands.

"PAN India Installations"

The large 'JBI' logo is filled with logos of various clients and partners:

- J**: Contains logos for **Piem** (LIGHT UP THE WORLD), **RICO** (RICO AUTO INDUSTRIES LIMITED), **HCL**, and **HI SON SHOES**.
- B**: Contains logos for **wework**, **RELAXO**, **TP**, **TCI EXPRESS** (LEADER IN EXPRESS), **BLUE STAR**, **Jayna** (The Kitchen Essentials), **MPS**, and **Ri** (TOKAI RUBBER INDUSTRIES, LTD.).
- I**: Contains logos for **SANJEEVAN HOSPITAL**, **wipro**, **MARUTI SUZUKI**, and **NEX NIPPON EXPRESS**.

ENGINEERS

Our Products

We have a comprehensive range of products right from **HVAC control to Air Distribution**. Our Products are **engineered to global standards** with emphasis on efficiency and reliability. Each product is designed to meet and exceed performance parameters.

Air Washers



Industrial & commercial applications

Air Scrubbers



Kitchen applications

Capacity:

4000 CFM ~
80000 CFM

Air Handling Units



Capacity: 2400CFM - 30000CFM

Fan Coil Units



Capacity: 1000CFM - 60000CFM

Ventilation Systems



Axial Flow fan



Centrifugal fan



Inline Duct fan



EC fan

Speciality Products



Grills & Diffusers



Louvers



Fire & Smoke Dampers



MS/SS Tanks
100 - 10000 ltrs



Sound Dampers

EVAPORATIVE C SOLUTIONS

Portable



Top Discharge



Ducted/Direct



Indirect-Direct



Technical Specifications

Portable & Spot Coolers

Model	APC	ASD-20K	ASD-25K	ASD-35K	ATD-10K	ATD-20K	ATD-25K	ATD-35K
Body material	Special Pre-plasticsized coated galvanised steel							
Minimum Evaporation Efficiency (%)	90	90	90	90	80	90	90	90
Pad Surface Area (m2)	1.14	1.56	2.17	3.74	0.85	1.56	2.17	3.74
Pad Thickness (mm)	100	100	100	100	60	100	100	100
Connection Load (kw)	0.61	0.79	1.55	3.88	0.19	0.79	1.55	3.88
Power Supply	230/1Ph/50Hz		415/3Ph/50Hz		230/1Ph/50Hz		415/3Ph/50Hz	
Overall Dimensions (L x W x H) (mm)	750x1150x1550	1150x1150x950	1150x1150x1150	1450x1550x1450	650x650x1200	1150x1150x1450	1150x1150x1650	1450x1550x2150
Air Discharge Size (mm)	Free	400 x 400	400 x 400	650 x 650	440x240	600 x 500	800 x 500	1000 x 600
Fan Type	Axial	Centrifugal DIDW (Double inlet Double Width)			Axial	Centrifugal DIDW (Double inlet Double Width)		
Tank Capacity (Liter)	120	110	110	190	60	110	110	190
Dry Weight* (Kgs)	80	170	205	300	62	165	325	595

Ducted Evaporative Coolers

Model	ADC-20K	ADC-25K	ADC-35K	ADC-45K	ADC-L-85K	ADC-L-100K	ADC-L-125K
Body material	Special Pre-plasticsized coated galvanised steel						
Minimum Evaporation Efficiency (%)	90	90	90	90	90	90	90
Pad Surface Area (m2)	1.56	2.17	3.74	6.06	9.08	13.88	13.88
Pad Thickness (mm)	100	100	100	100	100	100	100
Connection Load (kw)	0.79	1.55	3.88	5.87	9.67	11.75	15.75
Power Supply	415/3Ph/50Hz						
Overall Dimensions (L x W x H) (mm)	1150x1150x950	1150x1150x1150	1450x1550x1450	1750x2350x1750	2150x2400x2150	2150x2400x2150	2300x3300x2500
Duct Connection Size (mm)	400x400	400 x 400	650x650	900x900	1100x1100	1250x1250	1400x1400
Fan Type	Centrifugal DIDW (Double Inlet Double Width)						
Tank Capacity (Liter)	110	110	190	475	715	1000	1000
Dry Weight* (Kgs)	165	200	295	565	790	910	1010

* Industrial long life construction (heavy duty)

ARCTIC Applications



Factory Shop Floors



Canteen & Kitchen Ventilation



Warehouses



Cinema Halls



Residences



Green House & Tea Industry



Schools



Showrooms



Shop Floor & Assembly Line



Hotels & Restaurants



Gym



Multipurpose Halls



Poultry Farm



Religious Places



Offices

And many More...

SOLUTIONS FOR HVACR SYSTEMS

The sizing of the system is a key factor in its efficiency. It is a must to design the HVAC system with the correct capacity as per the requirement to make it energy efficient. Less capacity HVAC systems do not solve the purpose and higher capacity systems add up unnecessary initial investment costs and use more energy that is needed.

Packaged Units & Split System

Unmatched choice of system components for **buildings small to large**. We offer complete air conditioning systems for residential, commercial and industrial use.

Whether for a large data center, a complex commercial concern or a small business, JBI offers sustainable options to deliver **customized comfort and efficiency**.

Design the system you need for a corner retail shop, light commercial application, office building, hotel, school and more.



Inverter Packaged and Ducted Split Air Conditioner



Inverter Ducted Hot & Cold Air Conditioner



Packaged and Ducted Split Air Conditioner



Floor Mounted Verticoool AC



Concealed Split Ac



Hybrid & Cassette Ceiling ACs



Split Air Conditioner



Ceiling Concealed

Air Handling Units (AHU)

Incorporating the right airside products into a HVAC air handling system is a critical part of creating world-class performance. By helping you select the right air handling system, JBI can help address indoor air quality issues such as temperature and **humidity, ventilation, mold, bacteria, other particulate matter, and noise.**

Installed Capacity: 4000 CFM ~ 336000 CFM



Performance Air Handlers

Air handlers can help HVAC systems achieve higher energy efficiency and indoor air quality while reducing maintenance requirements – adding life to buildings and improving the lives of people within them.

Variable Air Volume Units



Round In Round Out



Single Duct Terminal Units



Dual Duct Terminal Units



Fan Powered Terminal Units

We supply and install Scrubbers for varied industrial usages. Scrubbers are high efficiency **air pollution control equipments** used to remove particulate matter, fumes and gases (especially acid gases) from industrial processes. The process takes place by 'scrubbing' the pollutants by contacting them with a scrubbing media (either wet or dry) thus resulting in a residual exhaust of negligible particulate size.

Scrubbers

Wet Scrubbers



Venturi Scrubber



Packed Tower Scrubber

Dry Scrubbers



Dry Scrubber Industrial



Dry Scrubber Unit

Applications

Acid Mist
Furnaces
Gas absorption
Building product mfg
Kilns

Boilers
Odor Control/removal
Crushers and screens
Fumes/VOC smelters
Transmission Rooms

Kitchen Exhaust
Diesel Engines, Gensets, Turbines
Compressors, H.V. Alternators
Power Plants
Hospitals OTS / ICUS
Pharmaceutical Manufacturing

VRV / VRF System

Most future-forward HVAC systems which combines VRF zoned comfort with hydronic chiller system advantages, resulting in up to **20% less refrigerant** in the overall system compared to conventional VRF.

Installed Capacity: 12 HP ~ 600 HP

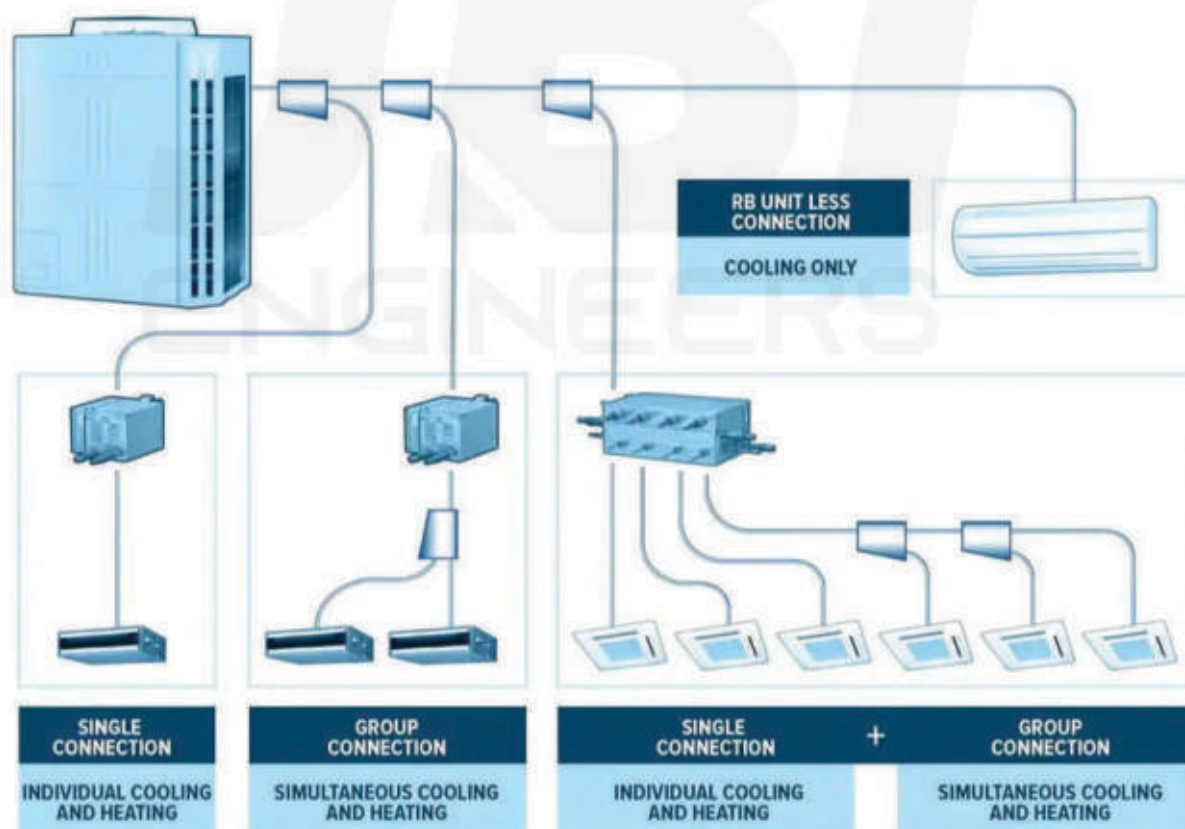
HVRF engineering: Advantages

Energy Efficiency: The system is designed to provide exactly the amount of cooling needed for the current conditions, which means it runs less frequently and at a lower capacity. The VRF system is also designed to capture heat from the cooling process and reuse it in other areas that may need heating.

Consistent Comfort: The VRF system's compressor can detect the precise requirements of each zone, and send the precise amount of refrigerant needed to do the job. Our Systems are designed for well-controlled humidity and no hot or cold spots.

Less Downtime: Since the VRF system is designed to run only when needed and under partial-load conditions, there is less wear and tear on the parts. That means fewer breakdowns.

Required Less Space: Since the air handlers are smaller and VRF systems don't usually require ducts, they don't require as much wall and ceiling space for the equipment. That means you get to keep those gorgeous high ceilings in your apartment.



All Electric Heat Pump

Refrigerant Reduction

Indoor Environmental Quality

Simplified Installation

HVAC Chiller System

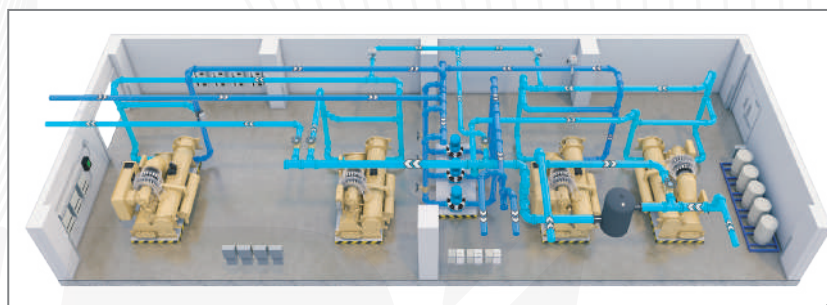
Air Cooled
Water Cooled
Modular

Our chillers serve HVAC systems designed and built uniquely for each building, that deliver the **right temperature, humidity and ventilation** for the space, and they also help **minimize operating costs** with superior energy efficiency levels, low sound levels and with minimal environmental impact.

Installed Capacity: 10 TR ~ 800 TR

Comprehensive Chilled Water Systems

- This system comprises one or more chillers, cooling tower(s), condenser-water pumps, chilled-water pumps, and load terminals served by control valves.
- Fixed- or variable-speed compressors and other components.
- Complies with or exceeding energy code minimum requirements.
- Provides centralized equipment for easier maintenance.



Screw Chillers



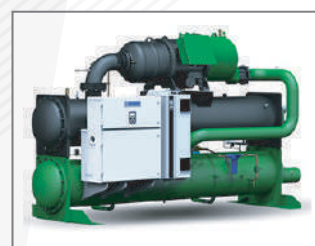
Air cooled



Water cooled



**Air cooled
VFD Screw**



**Water cooled
VFD Screw**

Scroll Chillers



Air & Water Cooled

Centrifugal Chillers



**Water Cooled
Centrifugal Chiller**

Process Chillers



Process Chillers for medical, pharmaceutical industries and varied industrial applications like plastic mould cooling, printing and lamination processes. These chillers incorporate microprocessor based controls which offer intelligent cooling and are energy efficient apart from being **extremely compact with a small footprint**.



Ducting & Insulation

We **repair, design, build and install** air distribution systems, custom ductwork transitions, custom rectangular ductwork. We also install spiral ductwork and may other types of sheet metal ductwork.

Installed : 200+ projects successfully

HVAC Ducting



Spiral Ducting

Superior aesthetic appeal.

Indoor applications for improved ambiance.



Stainless Steel

Businesses and large manufacturing facilities application.



Mild Steel

Fire resistant.

kitchen exhaust applications.



Rectangular Ducting

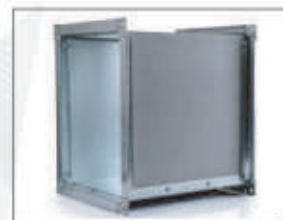
Hot dip galvanized steel sheet.

Most stringent HVAC / Industrial specifications.



Aluminum Ducting

Swimming pool, clean rooms for sensitive industrial applications.



Fire Rated Duct Works

Flexible glass fibre fabric.

HVAC Insulation



Negligible Water/ Moisture Absorption



Excellent Thermal & Acoustic Insulation



Chemically Unreactive



Stable K Value



Wide Operating Temperature Range



Resistance to Fungi

Polyolefin Insulation



Rubber Insulation



Rockwool Insulation



Fibre Glass Insulation



Under Roof Insulation



HVAC Duct Insulation



Pipe Insulation

Fire Fighting & Alarm Installations

No matter what potential risks you face, we can help tailor a life safety solution that preserves investments and brings peace of mind.

- ▼ Fire Sprinkler Systems & Installation
- ▼ Fire Extinguisher Solutions & Services
- ▼ Fire Hydrant Systems and Installation
- ▼ Fire Detection/ Alarm system & Voice Evacuation Systems
- ▼ Gas suppression system
- ▼ Electronics Wireless Nurse Call System for Hospitals
- ▼ Fire Stop Sealants
- ▼ Special Hazards Installation and Services
- ▼ Security and Surveillance system with CCTV & Public Address System



The combination of Firefighting & Alarm Installation services enables us to provide the greatest advantage to all our customers as a single source and single point of contact for all their critical needs.

Clean Room Works

Clean Rooms are environments where the concentration of airborne particles is **controlled**, which are built and used to minimise the introduction, generation and retention of particles and where other significant parameters such as **temperature, humidity and pressure** are monitored as needed.

Modular Partition

Modular Ceiling

Flooring

Cleanroom Installation Steps

1. Building works and finishes.
2. Cleanroom setup.
3. Preliminary ventilation.
4. Cleaning.
5. Installation of HEPA /ULPA filters.
6. Certification test in compliance with standard ISO 14644.



Capacity: 10000 - 100000 Class

We design, supply and install modular and bespoke walk-in cold rooms and deal in turnkey cold storage projects for usage in **Industrial Cold Storage, Agriculture Cold Storage, Supermarkets, Pharmaceutical, etc.**



Features:

- a) PUF Panel - Polyetherane Foam(PUF) Panel
- b) Insulated Door
- c) Refrigeration System - Indoor + Outdoor
- d) Electrical Panel to control Refrigeration System

Cold Room Works

Electrical Engineering Services

We at JBI have design & execution capabilities for solutions in HT, LT, DG, UPS/Inverter and ELV Systems to address requirements across industries.



Scope of Work

- ▶ Plant Shutdowns, Turnarounds, Comprehensive Startup & Commissioning
- Supply & Installation of:
 - ▶ Switch yards, Bus ducts, Transformers, PMCC panels
 - ▶ Fire and Gas systems
 - ▶ DCS and PLC systems
 - ▶ Electric Panel Changeouts
 - ▶ Electrical Substations Contracting
 - ▶ Building Energy Management Systems (BEMS)
 - ▶ Commercial Electrical Installations
 - ▶ High tension (HT) & Low tension (LT) Cable laying works
 - ▶ Power and Lighting systems

HVAC Automation

Building Automation System (BAS)

JBI offers Building Automation solutions and systems for HVAC & R applications. It consists of **programmable controllers (PLCs), user interfaces (HMI), communication interfaces, remote management systems and cloud services** to offer the customers a control system that is powerful yet flexible and can be easily interfaced to the more widely-used Building Management Systems.

- a) Easy installation with out-of-the box functionality.
- b) Solutions for both new and retrofit applications.
- c) Low upfront costs.
- d) Advanced Security.

We offer customised automation solutions for the residential, industrial and commercial segments in the HVAC market, for each application segment which is integrated into individual units like heat pumps, shelters, rooftop, computer room air conditioners (CRAC), chillers and air treatment systems as well as complex systems for shopping centres, supermarkets, museums and data centres, etc.

UNPARALLELED SERVICE

Our complete 360 service portfolio revolves around preserving high performance and minimising downtimes. Our services go well beyond just repair and maintenance.

JBI conducts regular service visits to foresee and forestall operational hurdles and hence ensures that the system performs seamlessly.

Our HVAC&R Operations, Maintenance, and Repair Services experts can help reduce maintenance costs and minimize downtime.



360° SERVICE & SUPPORT



OEM Certified

Commissioning, configuration by certified service technicians.



Precision Maintenance

Predictive and diagnostic services help reduce risks, costs, and future break downs.



Site specific critical spares

To reduce maintenance times and downtimes.



Cost Optimization

Less costs for customer and full efficacy.



Preventive practices

Use of best preventive practices at all level and ensure reliable risk management.



Swift Response

Our experts get your facilities functioning again quickly.



Deep Expertise

Innovative approaches to HVAC repair and preventive maintenance and operations.

PAN INDIA
INSTALLATIONS



Find us on

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ENGINEERS



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