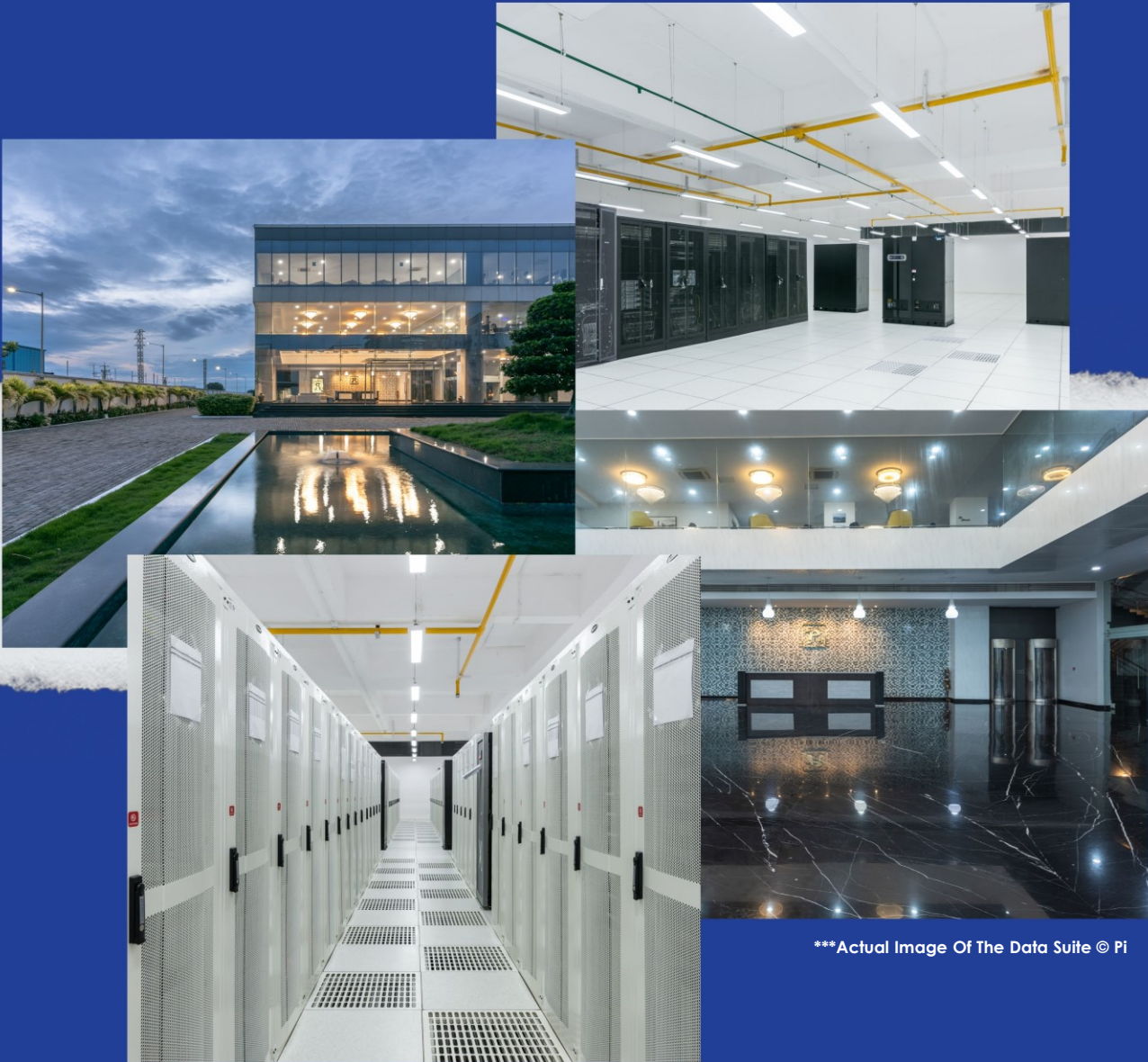# Data Center Services Portfolio

***Actual Image Of The Data Suite © Pi

Advisory | Colocation |Operator
Design | Build |PMC

MeitY Government of India

TIER IV DESIGN Pi DATACENTERS (P) Ltd Amaravati UPTIME INSTITUTE CERTIFIED

India's Best Multi-Tenant Data Center Recognized by DatacenterDynamics DCD Awards 2019

PCI DSS Certified

HIPAA Health Insurance Portability & Accountability Act

STQC Certification NABCB

AICPA SOC 2 Type II Formerly SAS 70 Reports

SAP Certified in Cloud | Infrastructure | SAP HANA® | Hosting Operations

ISO 27001 | 27017 | 27018
20000 | 22301 | 9001 | 14001

TIA® Architecting Digital Future

Partnering for Mission Critical IT Deployment

Pi Data Centers have been an expert in providing data center services for the last eight years. We have designed, built, and operate India's first Greenfield Uptime TIER IV Certified Datacenter. With profound global expertise, Pi is Headquartered in Hyderabad, India, and has dedicated teams of professionals for data center Advisory, Design, Build, and PMC.

Furthermore, we provide a trusted global platform and are an end-to-end data center operator for large enterprises and other DC owners. We bring in a one-stop solution for all kinds of data center requirements for corporations & Hyperscalers. Pi distinguishes itself by optimizing resources to minimize cost and deliver the best upshots besides seamless connection and world-class experiences.

Our certifications include Uptime Tier IV, MeitY, STQC, SOC 2 Type II, PCIDSS, HIPAA and ISO 22301:2012, ISO 27001:2013, ISO 20000-1:2011, ISO 140001:2015, ISO 9001:2015, SAP Certified in Infrastructure Operations drives confidence in enterprises to partner with us for their Digital Transformation journey.

Advisory

It is imperative to get the right advice when building your data center; right from the conceptualization phase. From selecting land/location to sizing the data center's capacity that suits your current and prospective prerequisites. Our proficient team can comprehend your requirements and prepare a thorough assessment and its associated estimated cost. Sizing the data center is a critical factor in controlling your expense. Understanding the requirements and appropriate advice on sizing for power, cooling, and other electrical & mechanical components is a must. Further detailing includes estimating the Construction Area, Compartmentalization, and Load-bearing Capacity, among others.

Key Element Driving Location Selection

- Seismic Zone Category
- History of Natural Calamities
- Power
- Fiber Connectivity
- Water Supply
- Ease of Regulatory Approvals

Colocation Services

Private Suites: With an innovative modular design, we offer physically separated private suites (DC in a DC) to meet high compliance and high-volume colocation requirements from enterprises. These private suites are designed keeping in mind varied quantum of racks with various power capacities, critical operations, and security needs.

Caged Solution: Designed for enterprises looking for flexible options but desiring to retain complete control over their environment, from environmental conditions to security.

Rack Colocation: We provide secure lockable rack cabinets with power and high-speed network connectivity in modular data suites of varied sizes to colocate compute, storage, and network appliances. These data suites are equipped with dedicated air conditioning. Depending on customer requirements, these digitally secured cabinets are available as part of a dedicated and shared suite.

Whitespace: State-Of-The-Art equipped Plug-and-Play ready space is available for customers to deploy their cabinets and IT equipment.

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Sub-Cabinet Service: This is suitable for enterprises who want to leverage a shared rack to colocate a handful of IT appliances on a "Per U" basis yet enjoy a fully redundant data center environment. This is backed by independent N+N power and cable feeds. Best suited for starting small and scaling at will.

Hands and Feet Support: Our Hands and Feet Support helps in assisting customers in preliminary physical checks of their hosted environment, port & cabling checks, reporting equipment indicators, and on-demand physical reboots. This service is an extended arm for customers without personnel presence inside the data center.

Operator

Pi Data Centers have extensive operating experience with large to medium size data centers for enterprises and governments. Our data center operation comprises systems and workflows within a data center that keep it running. It includes installing and maintaining network resources, ensuring data center security, and monitoring systems for power and cooling. The IT requirements of companies that own data centers define many types of data centers, varying in size, reliability, and redundancy.

The growth of cloud computing is pushing data centers to modernize, including updated operations that take advantage of virtualization and automation. As time-tested and industry-weighted data center operators, we bring in the expertise & in-depth knowledge to put all the dots together and bridge the gaps as your trusted partner to operate your data center.

Design

The Data Center design is the vital aspect that determines your total CAPEX and the OPEX. Once the implementation completes, it becomes problematic to undo a sub-optimal design; however, an optimal design can save Millions regarding CAPEX and OPEX. The Pi design team consists of UPTIME-Certified Architects(ATDs) who can bring your vision to reality through their experience and expertise by assimilating essential features required for a Data Center to run.

The design includes the Master plan, Structural design, Mechanical & Electrical Design Drawings, HVAC, Security/ Surveillance, Fire Suppression, Access Controls, and End-to-End Automation. Our deliverables also include Design Certifications.

Build

Data Center build differs from traditional buildings, and the load-bearing, compartmentalization, and significant structural spans play a critical role. However, often it is easy to overdo the sizing, which inflates the overall cost unless it is designed and built appropriately. We have expertise in selecting the right construction partner for the civil and

M&E phases of the project, among others, to execute the build of the DC in the stipulated time. Getting construction & statuary approvals on time is imperative. Our experts got outstanding experience with feet on the ground working with the relevant statuary bodies that will help you achieve the best.

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## Project Management Consultancy (PMC)

To ensure on-time completion, addressing the project timelines is critical besides the quality task and process being implemented. The PMC encloses execution and completion of the scope of all the essential aspects, including Civil, Electrical, and Mechanical, which contains low side, HVAC, Security/ Surveillance,

Fire Suppression, Access Controls, and end-to-end automation. Once the project is completed, we ensure end-to-end testing with the appointed agency to ensure validation against the design parameters before handing it over.

5 Point Strategic Partnership

01 Strategize

Optimize

03

02

Design & Test

Deploy

04

05
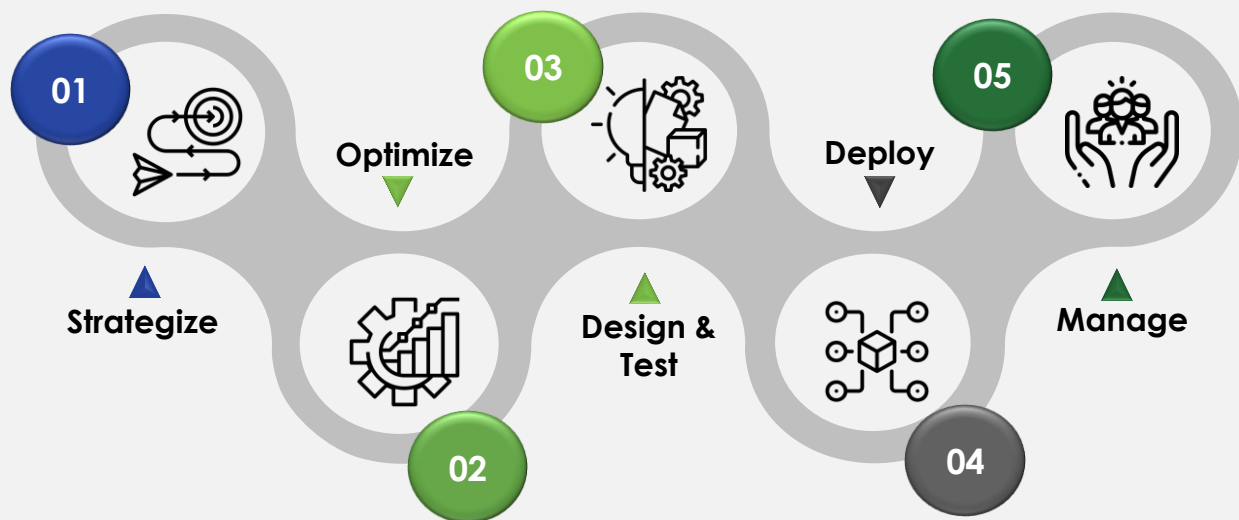
Manage

Pi eliminates the need for enterprises to build, staff, and manage in-house server rooms or data centers. We work as an extended team for enterprises, and we can fulfill their business need for managed Colocation Services, hands-and-feet support, and 24x7 monitoring. All these are supported by a robust analytical ability enabling enterprises to have a pragmatic performance trend analysis for their colocated IT infrastructure. Enterprises get complete freedom to focus on their business growth.

Building and maintaining a newly developed, agile, and scalable IT infrastructure can be highly complex regarding service availability and skill management. It compounds when IT infrastructure is not of core business interest for the enterprise, resulting in soaring TCO and continuously reducing ROI. This is where Pi, with its core of hyper-scale data center services, adds significant value to the enterprises for their IT infrastructure needs.

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Data Center Locations Build To Suit Availability

Pi Vijayawada
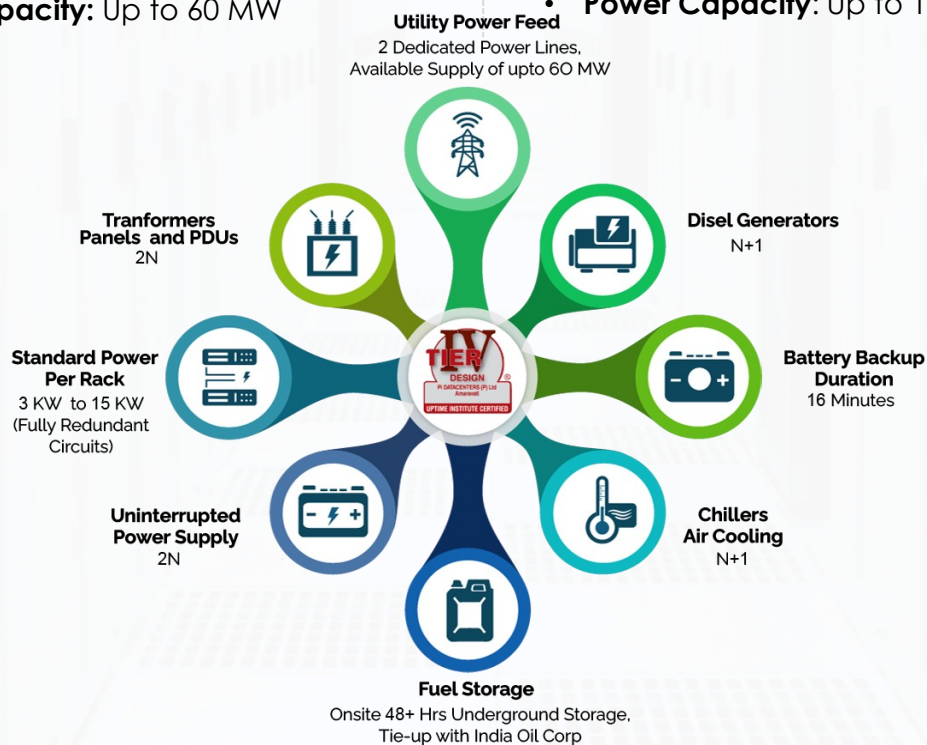**Location :** Mangalagiri, Vijayawada, Andhra Pradesh

- **Land** – 10 Acres in IT Park
- **Design** - Uptime **Tier IV**
- **No of Racks:** Up to 5000
- **Power Capacity:** Up to 60 MW

Pi Kochi
Location : Kottapuram Road, Aroor, Kerala

- **Land** – 6 Acres in IT Park
- **Design** - Uptime **Tier IV** or Per Requirement
- **No of Racks**: Up to 3000
- **Power Capacity**: Up to 100 MW

Utility Power Feed
2 Dedicated Power Lines, Available Supply of upto 60 MW

Tranformers Panels and PDUs
2N

Disel Generators
N+1

Standard Power Per Rack
3 KW to 15 KW (Fully Redundant Circuits)

Battery Backup Duration
16 Minutes

Uninterrupted Power Supply
2N

Chillers Air Cooling
N+1

Fuel Storage
Onsite 48+ Hrs Underground Storage, Tie-up with India Oil Corp

TIER IV DESIGN
PI DATACENTERS (P) Ltd Amaravati
UPTIME INSTITUTE CERTIFIED

Pi can also project manage and build-to-suit data centers in other Indian cities, including prominent business hubs like

| Delhi | Mumbai | Pune | Hyderabad | Bangalore | Chennai |

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Design Considerations

Data Hall

Room Temperature
22+/-2 Deg. C

Relative Humidity
50+/-10 %
(Controlled by Dehudifier)

UPS Switch Rooms

Room Temperature
25+/-2 Deg. C

Relative Humidity
50+/-10 %

Battery Room

Room Temperature
25+/-2 Deg. C

Relative Humidity
50+/-10 %

Chilled Water

Supply Temperature
8 Deg. C

Return Temperature
15 Deg. C

Office & All Other Air-Conditioning Rooms

Room Temperature
22+/-2 Deg. C

Relative Humidity
Less Than 70%

Benefits of Our Data Center Services

Modular Architecture: Modular Private Data Suites with custom rack capacity and flexibility for future scaling. Each suite can be dedicated or a multi-tenant environment in itself.

SCADA/DCIM: Can enable100% automated SCADA/DCIM facility wherein all electrical, mechanical, HVAC, fire safety, security, and surveillance equipment would be monitored LIVE and can be controlled instantly with a click of a button from an in-house Global Command Center

Uncompromised Security: Multi level stringent security from the main entrance to the data racks. All Data suites and NOCs to be facilitated with biometric/physical key access and monitored and managed through global industry standard iBMS.

Dedicated NOCs: We can create Exclusive Customer-NOCs for Enterprises to manage their network, systems, applications, and security in a private secured environment.
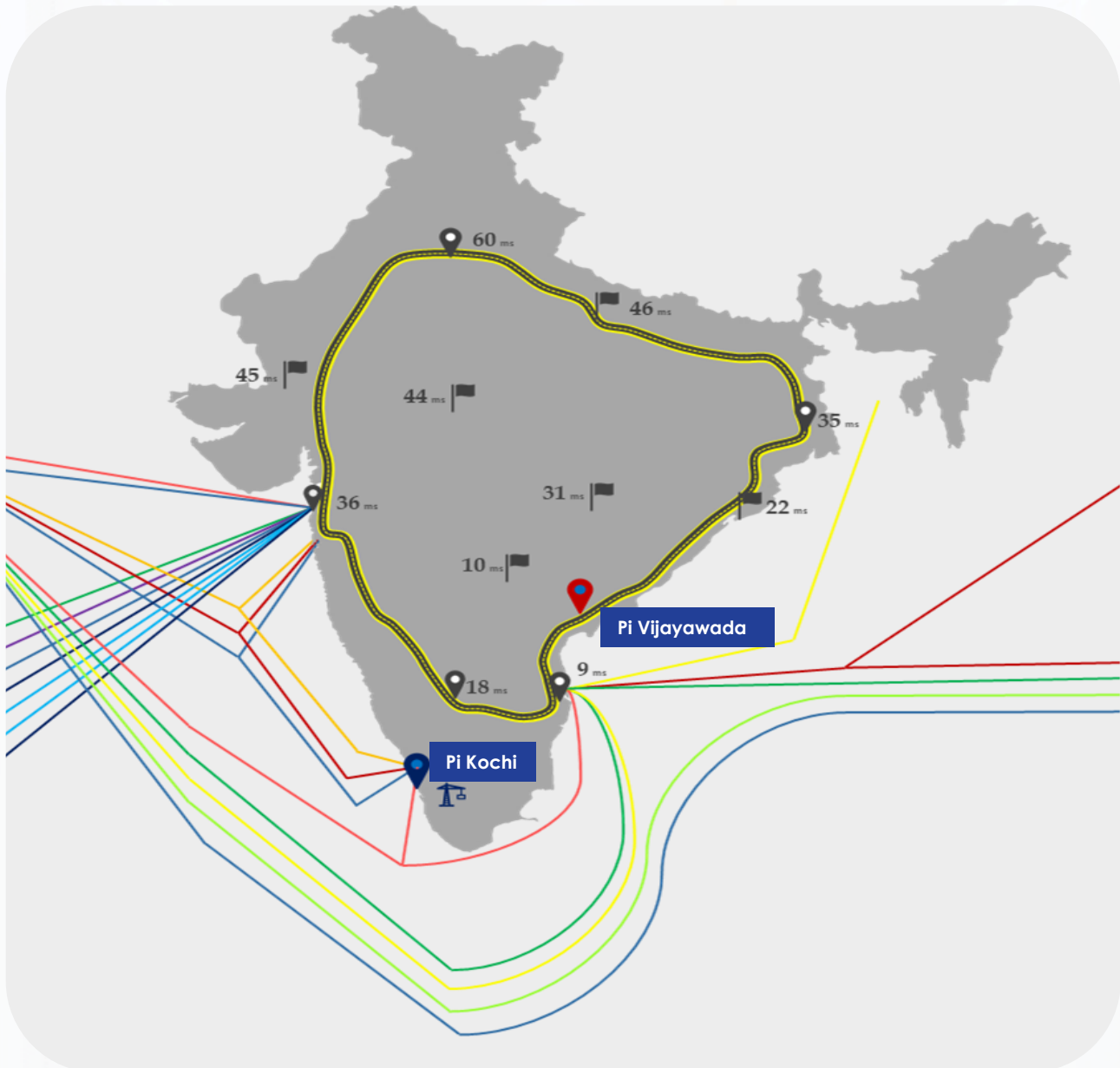
Rapid Deployment: With Plug-And-Play design & deployment methodology we have proven expertise in enabling data centers with private suites where customers can colocate their IT infrastructure in a matter of days compared to months at traditional data centers.

Low Total Cost-Of-Ownership: Innovative data center design, better PUE, low Power cost, and Flexible business model translate to significant cost savings for our customers.

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Ultra Low Latency To Major Indian Cities

ISP of Choice
Jio | vodafone | airtel | TATA | BSNL | पावरग्रिड | रेलटेल RAILTEL

Redundant fiber routes to DC

Better Connectivity

Bandwidth:
Scalable to Petabytes

Internet Exchange

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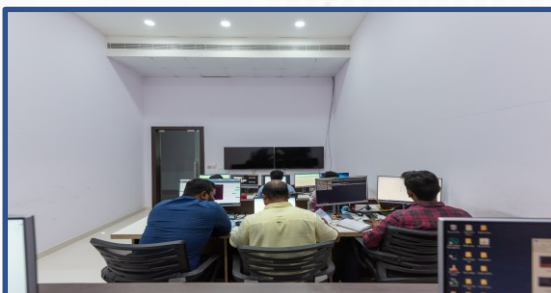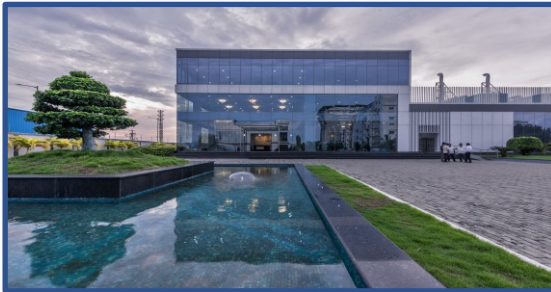
Real Time DC Pictures

Real Time DC Pictures
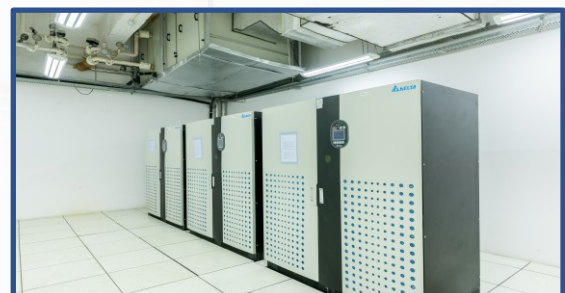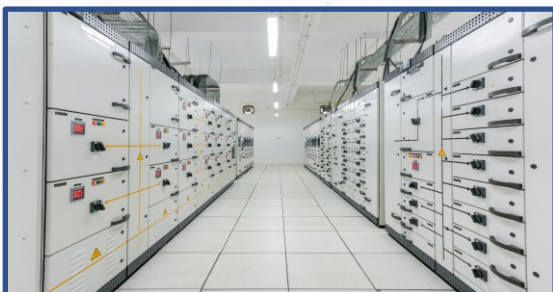
Infrastructure & Technology Partners

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About Us

Pi DATACENTERS® is a story envisioned by technocrats, led by its Founder & CEO, Mr. Kalyan Muppaneni. The vision was to redefine the customer experience while fueling the customer's business growth. This was backed by the mission to introduce Hyperscale data centers & indigenous enterprise cloud to the Indian industry with intelligent and self-healing infrastructure.

With a cumulative capacity of 500.000 sq ft of built-up area and 60 MW of power, including a dedicated in-house substation, Pi is by far India's first Greenfield, and World's 4th largest Uptime Institute TIER IV Certified Datacenter and Multi-Cloud provider, headquartered at Hyderabad (Telangana, India). Pi operates out of its data centers and cloud points of presence across Vijayawada (AP), Hyderabad, Kochi, Noida, and Mumbai. The objective is to differentiate high-quality and high-performance data center hosting while maintaining optimal TCO in supporting businesses for Indian and global enterprises operating in India.

With a backdrop of an extensive review and audit lifecycle, Pi DATACENTERS® is MeitY-empanelled and on GEM. Pi was empaneled by MeitY and received full accreditation for all three cloud modalities: public cloud, government virtual private cloud, and government community cloud.

The focus has been on delivering futuristic and custom data center and cloud solutions, riding on a disruptive approach to technology as India's leading data center and cloud company. Pi is highly trusted for being the flag bearer of data localization and data sovereignty, coupled with world-class service quality delivered out of its 100% automated SCADA-enabled data center facilities & SDDC ecosystem. Pi is certified for 6027001. 1509000, ISO 140001, 15020000, ISO 22301, STQC, PCI-DSS, SOC2 Type I, and HIPAA This has been reinforcing the organization's strong operational process to meet the stringent privacy, security, quality, and service compliance parameters of the global industry.

Pi is also certified for SAP HANA operations, SAP Infrastructure and Cloud Operations, and SAP Hosting Operations. This enables digital transformation across enterprises for the smooth and secure operation of business-critical processes.

Pi brings the best of both worlds together in terms of global standard and cost linearity. It boasts of its Hyperscale facilities, offering a wide range of custom-made colocation and cloud services for enterprises across all scales and Industries.

Pi has been featured on Gartner's Market Guide as one of the top data centers in India for the last 3 years in a row and as one of the top Public Cloud Managed and Professional Services Providers at the Asia/Pacific level for the year 2021. Pi has also been recognized as India's Best Multi-Tenant Data Center by Datacenter Dynamics. These are apart from many other laurels and accolades, earned at domestic and global platforms.

Being synonymized for work culture activism, Pi fosters employees' openness to new challenges and learning as they take up the trajectory of their work lives. Being respected and valued adds to the zeal that makes Pi a Great Place to Work. Pi has been recognized by Great Place to Work® India among the Top 50—India's Best Workplaces for Women in 2021 and the Top 50—India's Great Mid-Sized Workplaces in 2021.

Headquarters
12th Floor, Vijaya Krishna Towers, Besides Fairfield by Marriott, Financial District, Hyderabad- 500032, Telangana, India.

Regional Offices: Vijayawada | Mumbai | Delhi | Bangalore | Chennai | Kochi | Pune

Contact us reachus@pidatacenters.com

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