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Case Study ON

Premier Educational
Institution
(On-Premise DC Built)

About

The client is a leading educational institute in India. It was established to provide quality higher education on par with international standards. They persistently seek and adopt innovative methods to consistently improve the quality of education in India. The campus has a cosmopolitan atmosphere where students from around the globe join the institution. This educational institute harbors experienced and qualified educators to nurture the students so that they can fit into global scenarios.

They also provide for a student & faculty exchange program to encourage joint research projects for the mutual benefit of associated universities. They are steering many research projects in association with foreign universities and consistently bringing quality work back to India. We are proud to be associated with a premier educational institution on this recent DC design-and-build project.

The Challenges

- The organization encountered challenges in effectively managing operations across multiple institutional locations and sought to streamline processes to eliminate the need for external intermediaries.

- Concerns around data management and security led to a preference for internal control over third-party vendor management.

- Campus security was identified as a significant issue, prompting the need to enforce strict measures for preventing unauthorized items from entering campus grounds.

- The process of managing visitors at the Security Reception Area posed difficulties in maintaining accurate records and tracking individuals.

- Preventing tailgating and unauthorized access to various parts of the institution proved to be a complex task.

Summary

Security of the data and the institution's premises was paramount.

Multilocation records and data management was becoming challenging.

They were finding it difficult to handle different OEMs

Institute didn't want any third-party intervention in their data management proces

How Pi Led The Way

- Experience in the DC design and build activities of Tier-III and Tier-IV Data Centers gave us leverage to commission the design and build of the entire data center infrastructure efficiently. The project was delivered on time & within budget.

- Our team of experts worked closely with the client from project conception, design, and project management to the handover of the finished system, providing a one-stop shop for the whole project.

- We designed a well-defined UV (Under Vehicle) scanner facility for all the vehicles entering the institute premises to ensure no unwanted material enters the vehicles and also installed automatic bollards to control the vehicles' entry and exit.

- The facility is given to maintain Visitors' logs and other Identity proof for future reference and security purposes.

Summary

Provided an end-to-end customized DC build solution

Enabled Upgradation phases, easy scalability, and low CAPEX

Ensures adherence to UPTIME & TIE 942 Standards

Manage the environment post-relocation.

- The electrical system serving the Data Center is designed per the required Tier design. It is designed with complete system redundancy per requirements, with redundant components for Substations, Transformers, UPS modules, power distribution paths, and DG set power distribution paths.

- A dual power path is provided until the server level, and sources A and B cables are laid in the diversified path. It is laid in such a manner that cables can not interact with each other until they reach the rack.

- Server halls are provided with a minimum of 2-4 meters of access.

- Cold and hot aisle spacing are provided with a minimum of 12-meter distance.

- Well-defined design and execution reduce the futuristic operational challenges.

Conclusion

Pi aims to reduce the impact of the building process on the client and other partners involved in the program. Through a rigorous approach to project management, care coordination, and design, Pi Datacenter delivered well-executed projects on time with minimal contractual considerations.