

Managing IT Infrastructure Simplified

A leading software development company, as a part of its expansion plans, had to set up a new 2500-seat offshoring facility in Pune. The company operates in 18 countries across USA, Europe and Asia Pacific regions and has software development centers in India and China. Their recent expansion project included setting up a state-of-the-art data center for managing their IT infrastructure

REQUIREMENTS

During the planning stage several problems were foreseen and solutions were required for the following.

- Optimum management of available space in the data center.
- Racks with requisite load carrying capacity for high end servers.
- Compatibility of racks for all types of IT equipment from different manufacturers.
- Effective cooling of equipment.
- Managing bulk cabling (Cat.5/Cat.5e and fiber optics), while ensuring that the work done was as per international quality standards and BICSI guidelines.
- Attaining global standards for the data centre.
- Achieving high level of aesthetics.

Extra wide racks, which allowed the signal cables to conform to the recommended bending radii, ensured that data transmission performance would not deteriorate over a period of time.

THE SOLUTION

After assessing the problem, APW President Systems, made a set of recommendations designed to provide a comprehensive solution to the problems.

- Open Frame Racks for networking. These Open Frame racks occupy minimum space in the data center. They were supplied with customized vertical cable managers to manage the UTP cables.
- Cyberack cabinets manufactured at APW President's modern plant at Pune. The Cyberack family has a robust design, a high load carrying capacity and scalability features. Besides it has the ability to house servers/network equipment from most preferred manufacturers. The customer selected the 800W x 1000mm deep model of the Cyberack for their network and telecom equipment servers. Being 800mm wide these cabinets were provided with 100mm width reducing cable channels that have loops for cable routing.

- Fully perforated front doors were recommended for the cabinets, which were arranged in alternate hot/cold aisle formation in the data centre.
- Fully perforated dual rear doors were recommended with fans mounted on the doors. These fans can be located anywhere along the full height of the rear doors.

THE BENEFITS

- The Open Frame racks occupied minimum space in the Data Center, which ensured a high ratio of space utilization.
- The specially developed vertical cable channels ensured that the cables were managed in the best possible manner.

- Cable control accessories provided ensured that the cabling met EIA/TIA-568-A guidelines.

- Extra wide racks, which allowed the signal cables to conform to the recommended bending radii, ensured that data transmission performance would not deteriorate over a period of time.

- The versatile Cyberack range ensured that diverse equipment from different manufacturers could be accommodated easily.

- Front and Rear perforated doors for the hot/cold aisle cabinet layout ensured optimal utilization of the installed AC capacity.

- Fans on the rear door ensured that no hot spots developed in the cabinets as the fans evacuate heat effectively from inside.

- The hexagonal perforations on the front and rear doors, which have an "opening" ratio of 70%, ensured that air flow is easily channeled into the racks.

- Since the entire complement of equipment supplied by APW President to the customer reflects current standards and practices in enclosure technology the end result was a datacenter that is truly a state-of-the-art and aesthetically of a high standard – thus winning the site global recognition.

The end result of the meticulous planning process and the adoption of APW President's recommendation was that the site was completed ahead of schedule and the extra time was utilized for testing purposes. APW President's solution ensured that all the problems anticipated were adequately addressed, resulting in considerable benefits to the customer.

THE SOLUTION



Cyberack



Cyberack in a row



Bayrack



The first name in enclosure systems

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