



sify

Cyber Park, Electronic City Bangalore, India

Datacenter Features and Specifications

Tier III Concurrently Maintainable¹

1600KW IT Power

CRAC -Computer Room Air-conditioning

Datacenter Modules in multiples of 500KVA * 3 Power configuration

Redundant power source for IT and Non-IT infrastructure with automatic failover

Building Features

Location: Bangalore is known as the "Silicon Valley of India" because of its role as the nation's leading information technology (IT) exporter & best in class infrastructure support such as roads, power and other amenities

Floors in building: B2+B1+G+5. Designed to suit datacenter facility. Dedicated space for supporting infrastructure, floors designed for adequate load bearing capacity of 950Kgs

Total Area: 4810 Sq Mtr. The facility expands to 45000 Sq Feet including the supporting areas, white space area and other utility spaces.

Raised Floor area : 11000 Sq Ft. each Module is designed for 5500 Sq FT of white space

True Floor to True Ceiling Height in server farm: 3658mm. Since the building was made to suit datacenter facility, adequate height is built for housing all services in the under floor level

Raised Floor Height: 600mm. the Access floor void that also acts as supply air plenum is designed with sufficient height for proper air flow and pressure

Power System

Power Feeder : 11KV dedicated feeder

Total Designed Power Capacity: 4MVA²

Service Provider: BESCOM

Cooling System

CRAC Redundancy : N+1

Temperature Control : 22+/-2 deg C

Humidity Control : 50+/-5% RH

Dust Control : Less than 5 Micron

Certifications

ISO 27001 : For Information Security Management

ISO 9001: For Quality processes

ISO 20000 : For ITIL based Service Delivery

Architectural & Building Structure

Seismic Zone: Zone II. The location falls on the seismic Zone II category and the building design is based on the IS code for structural design for seismic protection

Seismic Protection: Building strengthened as per IS 1893: 1984 criteria for earthquake resistant design of structure.

Structural Floor Loading of Datacenter Floors: 930 Kg/sqm. Being a datacenter floor and considering the heavy racks often with the storage and could infrastructure devices need that additional load bearing support. The slabs in this building are designed for 1200Kg per Square meter

Freight Elevators: 1 x 2 Ton. One freight elevator for lifting equipments, servers, racks etc to the datacenter floor. This is accessed directly from the loading dock.

Passenger Lifts: 4 Nos with physical security available at the lift lobby area.

Fire rating of perimeter Wall & Doors: 2 Hours. The datacenter and services areas perimeter walls are fire rated for 2 hours including the doors. All the doors are metal doors with 2 hours of fire rating.

UPS Configuration: N+1

Power density: 120 W per sq ft³

Battery Backup : 15 minutes on full load

Distribution: Dual bus to racks with PDUs enabled with Branch circuit monitoring

Generator Configuration: N+1

Fuel Storage : 24 hours at full load capacity

Integrated Building Management System

Access Control : Multi layer access control system, with physical security, access cards

Video Surveillance : 24*7 for all critical areas, DVR and retention for 90days

Fire Detection : Addressable smoke detectors and Aspirating Smoke Detectors

Fire Suppression : FM 200 gas based fire suppression system for Data Center

Water leakage Detection : Addressable water leakage detection

Rodent Control : Ultra sonic rodent repellent

MMR

Dedicated Dual MMR at same floor

Dual fibre path

Network room on the DC floor

Fully redundant internal network

Telecom service providers : All major Telecom Service Providers



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¹ Tier certification from the third party, ² Dedicated feeders from utility service provider on a 11KV feeder,
³ Average power density per SqFt, Customizable for higher power density application