CapitaLand DC ITPH, Hyderabad

40 MW

CapitaLand Data Centre Hyderabad 1 is under development at CLINT's International Tech Park Hyderabad (ITPH) located at Madhapur. It will incorporate the latest technologies in cooling and security and a dedicated gas insulated substation within the site. Its technologically advanced specifications will allow it to serve hyperscale players and large enterprises in the region.

We have adopted sustainable design principles and green building standards, with the aim to achieve LEED Gold certification. The data centre will include features such as high efficiency chillers and water economization, intelligent energy and infrastructure management and solar panels.

CLINT owns and manages three business parks in Hyderabad – ITPH, CyberPearl and aVance – spread over 19.5 acres and catering to close to 70 global organisations and over 30,000 professionals.

Location	• Madhapur, Hyderabad, India
Facility	• 1 data centre building • 40 MW power capacity • 11 data halls
Data Halls	• IT power capacity per data hall – 0.5 MW, 4.0MW and 4.4MW • DC Hall floor loading – 2,000 kg / sq mt • Slab-to-slab height - 7.2 metres • Rack height - up to 52U • Rack capacity - 4,200 nos. • Raised floor of up to 1.0 metre • Dedicated clean earth for IT racks
Security and Monitoring	• 2.5 metres perimeter walls • Min. 7-layers security system • 24/7 onsite security personnel • CCTV surveillance with intrusion detection • Min. 60 days of recorded footage • 24/7 NOC monitoring critical infrastructure
IT Power Capacity	• N+N redundant UPS for IT load with 8 minutes EOL battery backup at full load per UPS • Dual power distribution with option for single or 3 phase power source per rack as per requirement
Cooling	• N+3 redundant air-cooled chillers • N+2 redundant CRAC units per data hall • Dedicated UPS system for CRACs and chiller pumps • 7 minutes backup for thermal runaway at full load • Option for hot/cold aisle containment • Option for liquid cooling
Utility Power and Generators	• N+1 power backup with dual sync panel • Fuel backup - up to 32 hours on site
Connectivity	• Carrier neutral • 4 diversified fiber entry points and routes • 2 MMR per DC floor • 2 dedicated data shafts
Fire Protection	• Inergen gas-based fire suppression system in all data halls and technical support rooms • UL listed intelligent multi-sensor detectors and addressable fire alarm panels • VESDA at data halls and technical support rooms
Logistics	• 2 x 4 tons service elevators along with scissor lifts at dedicated loading bay • Full rack height for elevators, doors and corridors • Secure loading bays • Shared and dedicated staging and storage • Shared seating, dedicated office space and meeting rooms