



Unveiling Sify's Largest Hyperscale Data Center Campus in Southern India - Chennai 02



Tried. Tested. Trusted.

Your Digital Infrastructure Partner for over 23 years

A glimpse into our Largest Hyperscale Data Center Campus in Chennai



78 MW
IT capacity

13000+
Racks

10 levels
of access
control

4 dedicated
fiber
paths

Integrated
cable
landing
station



Campus Advantages:

RAS based design for future ready infrastructure

Built-to-Suit towers to single cabinet deployment

78 MW IT Capacity, 3 Towers of 26 MW each

60% Renewable energy & ESG Focus

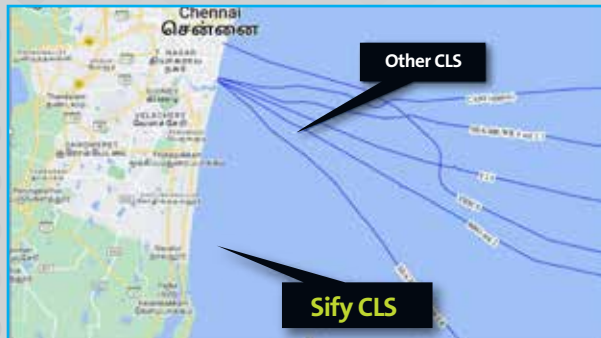
On-premises 220 KV GIS substation

6300 mm floor to floor height with 2100 kg/m² floor load bearing capacity

4 Fiber entry paths into the Data Center campus, with diverse fiber paths to each building

Integrated Cable Landing Station for Transpacific fiber access with 800-1000 Tbps capacity

Integrated Cable Landing Station



CLS is away from port, fishing zones, oil blocks and all existing subsea cables

Built on stilt structure, all equipment to be on Level 2 and 3

Initial power is 700 KW; to be ramped per requirement

800-1000 Tbps capacity

Chennai 02 Campus – Technical Specifications

DATA CENTER SHELL



- **Building:**
RCC shell and core for Ground floor, Service floor and seven server hall floors
- **Room Height:**
6300 mm slab to slab. 5100mm clearance from floor to 1st obstruction, 900 mm raised floor
- **Structural Design:**
IS 456:2000, Importance Factor 1.5
- **Structural Floor Loading:**
2100 Kg/sqm
- **Freight Elevators:**
2 freight elevators with 4-ton capacity
- **Fire Rating of Walls & Doors:**
2 hours

ELECTRICAL



- **Power Feeder:**
Onsite electrical GIS substation on High Voltage feeder of 220 KV
- **Power Capacity:**
Designed for 78 MW IT capacity
- **Power Density:**
Per customer requirement: Power density of 8 -13 KW per rack
- **Transformer/Generator Configuration:**
N+2, N+2C, N+N/3
- **Downstream Power Configuration:**
N+N power distribution with overhead bus bars
- **Onsite Fuel Storage:**
30 hours, agreement with 2 fuel supply companies and another fuel supply agency for supply of fuel within 4 hours

BUILDING MANAGEMENT



- **Building Management:**
Integrated building automation system with PLC SCADA
- **Physical Security:**
Perimeter protection with Electric fence and Intrusion detection, Access controlled Gates and hydraulic crash guards, Security control room, X-ray Baggage scanner, 24x7 security guard service
- **Access Control:**
Smart card and biometric
- **Video Surveillance:**
24x7 for all critical areas, retention for 90 days
- **Fire Detection:**
Addressable smoke detectors and aspirating smoke detectors for early warning
- **Fire Suppression:**
Novec® 1230 fire suppression system for Data Centre and electrical rooms. Option for pre-action water sprinklers available.

COOLING




- **Chiller:**
Air cooled chillers with high water temperature and adiabatic cooling accessories. N+ 2 redundancy
- **Environment:**
Temperature and Humidity as per ASHRAE standards
- **Containment:**
Cold Aisle Containment

NETWORK



- Integrated Cable landing Station
- **MMR:**
Dual meet me room for telecom fiber links; N+N power with UPS and 5 minutes battery backup
- Carrier Neutral: Multiple IXs, IP Transit POPs, Multiple Telecom MUXs
- Four telecom entry paths to the MMR. MDF (Network Closet) in every floor, connected to MMR via 4 network risers.

ESG Focus



Data Center MEP

- High efficiency for Equipment even at low utilization levels.
- Selection of equipment with high energy saving parameters.
- Right redundancy levels



Sustainable Processes

- ASHRAE Guidelines
- ISO 14001 Environmental Certification
- Carbon abatement policy
- Low PUE, WUE



Green Power Contracts

- Contracted 200+ MW Green power via Power Purchase Agreements.
- Additional nation-wide Green power for future projects. ~500MW planned to meet long-term sustainability goals
- Up to 80% Green Power available in Mumbai



Future Roadmap

- To become RE100 (Carbon Neutral) by 2030. 29% GHG emission reduction by FY2025
- Exploring options to secure up to highest RE penetration for Sify DCs, as permitted by regulation
- Targeting high level of Renewable Energy penetration by year 2024-2025:
- Chennai 60%
- Mumbai: 60%-70%
- Noida: 30%
- Bangalore: 80%-90%

50% Reduction in Carbon Footprint as of 2023
20-40% Reduction in Overall Energy Costs

Take Advantage of Data Center Automation

Automating critical processes in your Data Center, such as application delivery, monitoring, scheduling, and maintenance, can be extremely beneficial.

Sify Data Centers offer various automation benefits like real-time visibility into key Data Center operations and assets, and optimum utilization of resource capacity.

This ensures accurate demand forecasting and capacity planning to help you proactively eliminate downtime.

Real-time Visibility • Measurability • Predictability • Efficiency

Customized, Built-to-Suit Hyperscale Data Centers

Our Built-to-Suit (BTS) Data Centers are tailored to meet your unique requirements. We offer unbeatable capabilities which are fully compliant with global industry-leading certifications, building codes, safety standards, and other regulatory standards.



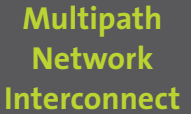
Dedicated Tower



Built as per specifications



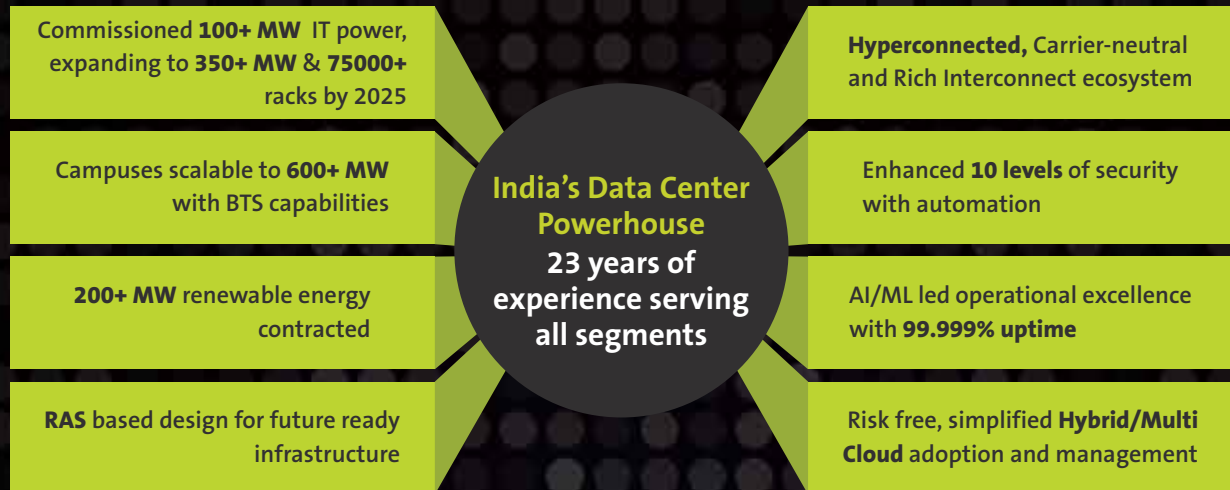
Meets and exceeds International standards



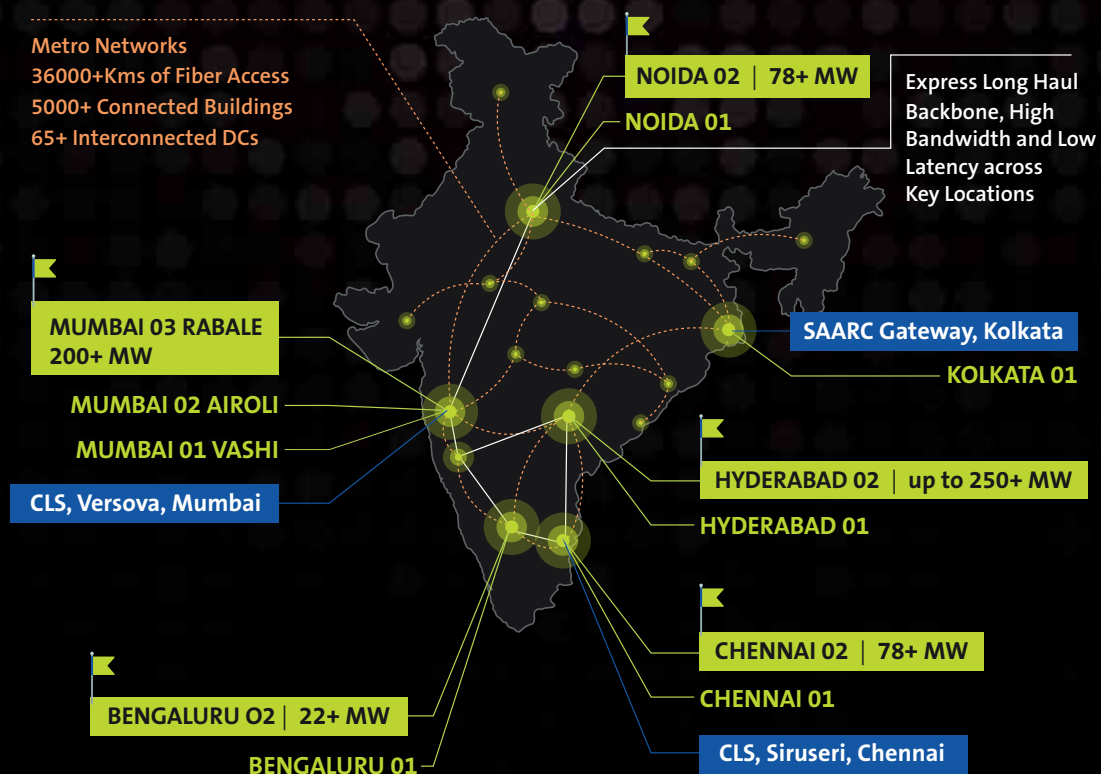
Multipath Network Interconnect

*As per regulation

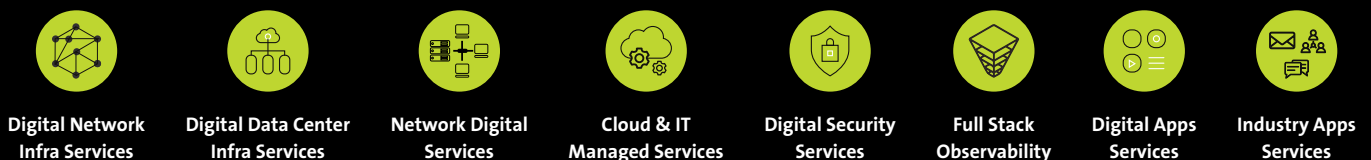
Future ready Digital Data Center infrastructure



India's Top 5 Banks, Top 4 Manufacturing, 3 Major Hyperscalers, Global Social Media, OTT Players, and 10,000+ Enterprises trust Sify's Digital Infrastructure



Sify Digital ICT services with Agility, Flexibility, Choices to empower your Digital Transformation



Trusted by Leading Enterprises across the Globe



3 out of 4 hyperscalers are hosted with Sify



Global OTT players chose Sify's Data Center to connect to millions of subscribers



World's leading social media network is hosted in Sify's Data Center



Europe's leading payment gateway provider chose Sify's Data Center



India's top 5 banks are hosted with Sify



India's largest digital wallet and new-age fintechs are hosted with Sify



India's largest general insurance company and large NBFCs chose Sify's Data Center



Sify's Data Centers host more than 600+ premier enterprises across industries

Certifications



Recognitions

Gartner

Sify is a Niche Player in Gartner's MQ for Managed Network Services Global 2023

Recognition in Market Guide for Public Cloud Managed and Professional Services Providers APAC 2021

Recognition in Market Guide for Security Testing & Consulting Services in India 2021

Notable vendor in MQ for Data Center Outsourcing and Hybrid Infrastructure Managed Services, APAC 2019

UBS

Green Data Center Initiative Award 2023



Data Center Transformation Services 2018



UBS

Data Center Innovation Award 2023



Hosting Partner



Network Transformation Services 2018

IDC

Major Player in MarketScape for Managed Cloud Services APAC 2021



Preferred Partner



Fortune 500

The Economic Times

Iconic Brands 2020 Hybrid Multi Cloud



VMware Cloud



22 YEARS

Fast track your digital transformation journey with a more agile, resilient, scalable, digital-ready IT infrastructure supported by a trusted partner who is charting India's digital growth story.

Sify Data Centers

Mumbai | Noida | Hyderabad | Bengaluru | Chennai | Kolkata



Reimagine your
Data Center experience

H11/A, Sipcot IT Park, Siruseri, Tamil Nādu, 603 103.

sify