



STT Chennai 7 Factsheet

STT Chennai 7 is strategically located within SIPCOT IT Park, Siruseri, spread across a 6-acre plot. The project is being developed in two phases: Phase I comprises a built-up area of 201,630.54 sq. ft., housing STT Chennai 7, the GIS building, and the security block, while Phase II will see the development of STT Chennai 8.

Building Overview

- G+4 Building, 1 data Hall on each floor (Customised)
- Operational since: RFS will be in Jan'26
- Location: Tamil Nadu, Chennai
- Gross area: 6 Acres
- Total Power capacity: 7.2 MW – Phase I
- Customer SLA for availability: 99.982%
- Slab-to-slab height: 6.7 m
- Floor loading- 1500 Kg/sqm
- Loading bay: 1 x 5 Ton, 1 X 4 Ton service elevators along with scissor lifts at dedicated loading bay
- Staging room: Available
- Fire cum passenger lift: 2 Nos.
- Passenger lifts: 2 Nos.
- Freight lift- 2 Nos: 1 X 5 Ton and 1 X 4 Ton



Security

- The carrier-neutral data centre is protected by a multi-layered physical security framework with 24×7 manned security.
- Advanced fire detection systems provide early warning across data halls and critical infrastructure areas.
- Fire suppression is enabled through an Inergen-based IG541 system for data halls and electrical rooms.
- Continuous 24×7 CCTV surveillance is implemented across all critical areas with 90-day retention.
- An integrated Building Management System enables real-time monitoring and control of critical systems.
- 4 Nos of diversified fiber entry points and routes
- 2 Nos of MMR per DC floor



Cooling

- Air-cooled chiller systems are deployed with N+1 redundancy to support reliable cooling operations.
- The chiller plant comprises five units of 430 TR capacity each.
- PAHUs are deployed across data halls, electrical rooms, transformer rooms, and MMRs to support zoned cooling.
- The PAHU configuration includes 36 units of 50 TR, 22 units of 20 TR, and 16 units of 10 TR capacity.
- The cooling design supports a rack density of 4 kW per rack across data halls.



Power

- The data centre is supported by dual utility power sources, with backup from seven 2000 kW diesel generators in an N+2C configuration to ensure uninterrupted operations.
- On-site HSD fuel storage of 3 × 80 KL supports up to 48 hours of continuous generator operation.
- Generators start automatically on utility power failure, while critical IT loads are supported through UPS systems.
- The total power requirement of the facility is approximately 12.3 MW, supplied through 110 KV utility lines from nearby TANGEDCO substations.

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