



STT BANGKOK 1

STT Bangkok 1 is a carrier-neutral data centre, built to the highest industry standards and strategically located in Hua Mak. As part of STT Bangkok hyperscale data centre campus in Thailand, it is built to support growing digital infrastructure demand arising from the burgeoning consumption of rich media and digital transformation of business and government enterprises.

BUILDING OVERVIEW

Purpose-built seven storey building with reinforced concrete superstructure

Location	Hua Mak, Bangkok, Thailand
Gross Floor Area	Over 30,000 sqm (>300,000 sqft)
Net lettable Area	7,600 sqm (82,000 sqft)
Flight Path	No
Flood Way	No
Slab-to-slab Height	Up to 6.2m
Floor Loading	15kN/sqm (1,500kg/sqm)
Loading Bays	2
Staging Room (per floor)	1
Passenger Lifts (1,600kg)	2
Cargo Lifts (5,000kg)	2

FIRE DETECTION AND SUPPRESSION SYSTEM

- High Sensitive Smoke Detector System (VESDA)
- Gas Suppression System IG-100 (N2)
- 2hr fire-rated doors and partitions
- 24x7 decentralised fire alarm monitoring system

POWER

- 2 diverse and redundant utility power supplies and sub-stations up to 20MW of IT Load
- 2N Uninterrupted Power Supply (UPS)
- N+2 Emergency Generators
- Concurrently maintainable
- Underground fuel tank providing up to 28hrs of support at full load

CONNECTIVITY

- Carrier-neutral
- 2 main distribution frame (MDF) rooms
- 2 meet-me rooms (MMR) per floor
- 2 diverse communication routes with 4 building entry points
- Access to multiple carriers, internet service and cloud service providers

CONTACT

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COOLING SYSTEM

- Design PUE of 1.4
- Resilient Chilled Water Plant with Cooling Towers with N+1 configuration
- Chilled Water Buffer Tank catering continuous cooling at full load
- High efficiency and diverse chilled water pipe design
- Service CRAH corridor with 2N power supply and N+25% resiliencies
- 48hrs of make-up water storage

SECURITY

- Anti-crash boundary wall with perimeter protection against vehicle-borne improvised explosive device (VBIED)
- Perimeter wall with BRC fencing and barb mesh
- Anti-climb fencing
- Comprehensive intrusion detection
- K12 rated vehicle crash barriers
- 24x7 CCTV surveillance of indoor and perimeter with recording in HD resolution, fixed with pan-tilt-zoom (PTZ) video analytics and 90 days playback
- 24x7 on-site manned guards
- 24x7 controlled site access with 2-factor authentication by pre-authorisation
- Contactless card access system and biometric access control system

CERTIFICATIONS

- LEED Gold
- TIA 942 Rated-3 DCDV
- Uptime Institute Tier III (TCDD, TCCF and TCOS)
- ISO 27001
- ISO 50001
- SS 564 PART 1
- PCI DSS
- TVRA compliant