DATA CENTRE SPECIFICATIONS

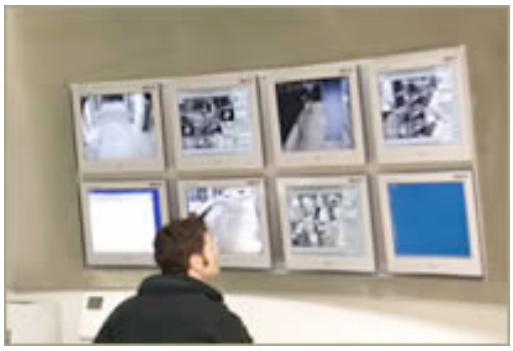
Physical Security

Full coverage of exterior, entryways, lifts, stairs and site interior with LCD colour monitor screens. 28-day digital system

Fully staffed security control room. Proximity access control system for entrance, exit and lifts. All tenanted areas have door access controls.

Entrance barriers controlling vehicle entry. Personnel access through revolving access doors via a security personnel trap

Intrusion detection alarms will include perimeter and internal door sensors, glass breakage sensors and motion detectors for CCTV interlock.



Electrical

Authority supply: Two (2) 33kV cable feeds from switching station with two(2) 33/11kV transformers providing n+1 redundancy.

Reticulation: 11kV cabling reticulated to transformers on each level, arranged in parallel redundant configuration. Cabling originates from 11kV switchboards connected to direct diesel coupled rotary UPS systems providing continuous output for critical loads and short break output for non-critical loads.

Capacity: IT power of up to 800 watts/m2 plus power for air-conditioning plant with cable and transformer capacity for 1000w/m2 on any floor

Reliability: n+1 for all equipment including cable reticulation.
UPS and standby power generation system: Provided by direct diesel-backed Piller rotary UPS systems that fully support the facility under maximum load with combination of continuous and short break supplies.

Generator fuel capacity: 48 hours fuel capacity onsite with 24x7 fuel supply contract to be executed to increase operational time.

Environment

Constant 22oC +/- 1oC. Relative humidity 50% +/- 10% at control instruments.

Heating, Ventilation and air conditioning system: Chilled water produced by water-cooled central chillers in (n+1) configuration, circulated to down blow process coolers in technical areas. Cooling towers located in roof plantroom.

On floor chilled water ring main served by three (3) independent risers, each riser sized for 50% load at maximum capacity.

Chillers: Three (3) Trane 4,500 kW. 6.6 kV high voltage supply to each chiller, provided with continuous power from diesel-backed rotary UPS system.

Process Coolers are Liebert

Redundancy: n+1 for central chillers and cooling towers. On floor process coolers to be n+1 as a minimum or a 125% load at maximum capacity. Cooling tower water storage will have a capacity of 48 hours of operation in the event of mains failure. Water supply will also incorporate dual connections to authorities main.

Dual cold water connections from the authorities mains in Harris Street and Quarry Street

A separate cooling tower water supply with feeds from the primary water supply and from the secondary supply consisting of a water storage tank that will have a capacity of 12 hours of operation in the event of the failure of both mains.

Racks

19" by 46 RU, supplied, installed and pre-wired by Anchor, fully enclosed with meshed anti-static door, lockable, bottom entry for air, power and data cabling, fibre top entry, top exhaust air.

Cabling

Carriers permitted to install interior proprietary cabling. Global Switch managed installations to structured wiring plans and cable management practices.

Fire services

Three-stage fire detection system that maximises detection

Double interlocked pre-action sprinkler system to the technical areas, conventional wet pipe sprinkler system to the ancillary areas. The double interlocked pre-action sprinkler system requires a signal from the detection system and a loss of air pressure in the pipework due to the activation of a sprinkler before the solenoid valve will activate and charge the pipework with water.

Multi-point aspirated smoke detection system to the technical area and sub floor. Addressable point type smoke detectors in the ancillary areas. The multi-point aspirated smoke detection system will have three stages of alarm.

Stage 1 (alert) - Alert signal to fire affected area and security to prompt investigation.

Stage 2 (pre alarm) - Evacuation sounded in fire-affected area.

Stage 3 (alarm) - NSWFB is called, gas discharges, detection system signals pre-action system.

Centrally stored Inergen with risers to each technical space. This allows tenants to enclose their area and extend the gas pipework to provide local gas suppression via directional valves.

Fire extinguishers throughout the building with CO2 extinguishers on the technical floors.

Building access

Articulated truck access to delivery zone. Loading bay, goods lift with10,000kg capacity to all technical floors, secure storage area, staging area.

2 x 2000kg - 30 person passenger lifts that serves all technical floors