

# Chayora Tianjin Datacentre

No. 17 Tongjin Road, BEDA, Beichen District,  
Tianjin, China

## Phase 1 Data Sheet



### Data Centre Capacity

- TJ1 is a carrier neutral data centre facility designed as an 18MW IT Load facility in a 6 x 1,000m<sup>2</sup> independent data halls, to serve domestic and international customers within China
- Three storey building – 38,258m<sup>2</sup> total  
Phase 1 - 15,586m<sup>2</sup>  
Phase 2 - 22,672m<sup>2</sup>
- Phase 1: 2 x 1,000m<sup>2</sup> data halls (500 52U racks per hall) on stream
- Phase 2: 2,000 racks available in an additional 4 x 1,000m<sup>2</sup> technical white-space data halls
- Office areas total gross 4,250m<sup>2</sup> to be reserved in Phase 1

### Fire Suppression and Monitoring

- VESDA, pre action sprinklers and/or Inert gas fire suppression system for data halls
- Distributed fire alarm controls equipment to avoid single point of failure
- Direct alarm link to local fire station within 200m on adjacent site
- Addressable analogue fire alarm system comprising fire indicator panel (FIP), mimic panels, heat detection and MASDs systems
- Leak detection systems in all critical rooms and data halls
- Emergency warning systems throughout the building

### Scalability

- TJ1 is part of a 25,000 rack campus with 6 x 3,000/4,000 rack DCs and 3 x 1,000 rack DCs with gross power available of 300MVA.

### Options

- Remote hands service
- HQ company registered on-site entitled to significant tax concessions & incentives

### Power

- Distributed redundant N+1 or 2N primary power
- DR N+1 / 2N UPS (15 mins) – 15 Minute full load battery back up
- N+1 generators – 24 hour full load on site fuel capacity with 2 fuel supply contracts
- 4 x 10 kV Power from different sub-stations
- Power monitoring at the individual rack level

### Network & Telecommunications

- Carrier neutral, connectivity options with major carriers
- Connectivity options to multiple cloud platforms
- Diverse fibre entry to campus and buildings
- Redundant carrier rooms, and redundant meet-me rooms (MMR) per floor
- Fully redundant in-house wiring
- <1.5ms round trip delay to Beijing CBD (route dependant)

### Sustainability

- Chayora works directly with energy administration department of National Development and Reform Committee (NDRC) to fully support access to 100% renewable energy supply

### Cooling

- Dual chilled water risers and dual ring distribution on the respective floor with Isolation valves at all components
- 2N power feed for all cooling equipment such as chillers, pump, AHUs, CRAH
- UPS power to all control system of the cooling infrastructure, ensuring uninterrupted control at all time
- 15 min thermal storage for uninterrupted cooling capability
- Temperature monitoring at the individual rack level
- IT load average 8KW/rack, maximum up to 15KW/rack
- Best in class energy efficiency - **PUE < 1.2**

### Security & Physical

- 24/7 onsite security and operation services
- 9-layer of security – including access cards, biometrics, man-traps, X-ray machine and metal detectors
- Floor loading 12kN/m<sup>2</sup>
- Cargo lifts between floors  
Phase 1 - 2 x 4,000kg cargo lifts  
Phase 2 - 2 x 4,000kg cargo lifts
- 4 loading docks, 2 staging rooms for direct delivery to Data Halls

### Licensing, Certifications and Standards

- IDC & ISP licences
- Tier III Uptime Design, Constructed Facility & TCOS Gold Certification
- OCP Ready™ Certified