IXAFRICA DATA CENTRE
NAIROBI, KENYA
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08:30-08:40
Introducing IXAFRICA DC
East Africa’s Largest carrier neutral campus

**Prime Location**
- Strategically located in Africa’s growing technology epicentre, the 17,300m² site is directly off Mombasa Road in Nairobi, Kenya

**State-of-the-art**
- Purpose built campus development to meet the demands of the world’s leading hyper-cloud and internet customers

**Sustainable by Design**
- Innovative design meets rigorous energy efficiency – target PUE 1.25
- sustainability and community at the heart of design

**Excellent Service**
- World-class customer care service
- comprehensive technical support backed by our self-service customer portal

**Carrier Neutral**
- Genuine carrier neutral Data centre
- Located in the heart of East Africa’s densest concentration of all major network connectivity,

**Bespoke Data Halls**
- Customers are invited to work with our design team to meet specific requirements.
- Full project management

**Designed for hyper-cloud scaling**
- 22.5 MW IT power available
- Campus site with 2 buildings + Teleport area
- Purpose built Tier III+ data centre
- 15,582m² total footprint
- 8013m² colocation space
- Phase 1 Available Q2 2023
East Africa’s only hyperscale campus 22.5 MW of IT power

- **Land acquired - Owned**: 99-year leasehold from 1987 (65 years remaining)
- **Power sourced & designs approved**: Two 11kV feeds from a two substations. Approved plans (power route) for a 66kV on-campus substation.
- **Development capacity**: Campus no 1 will have 22.5MW of IT power on current iXAFRICA plot. Additional plot identified to increase capacity to >40MW
- **Hyperscale focused**: iXAfrica is the only operator in East Africa able to offer a multi-MW carrier neutral facility to hyperscalers

### Data Centre 1 (opening Q2 2023)
- **Building size**: 4,314 m²
- **White space**: 1,653 m²
- **Data halls**: 2
- **Racks**: 780
- **Power**: 4.5MW IT
- **Office space**: 900 m²

### Data Centre 2
- **Building size**: 12,000 m²
- **White space**: 6,360 m²
- **Data halls**: 6
- **Racks**: 3,744
- **Power**: 18MW IT

### Satellite farm
- **Satellite teleport**: 4000 m²

### Total campus
- **Building size**: 16,314 m²
- **White space**: 8,013 m²
- **Racks**: 4,500
- **Power**: 22.5MW IT
Sustainability underpins campus design

**Social responsibility**
- iXAfrica champions CSR initiatives (e.g. managed waste control for recycling plastic and disposables)
- The company employs a community liaison officer to drive KIA initiatives
- Studies for noise have been carried out
- A planting programme is being undertaken
- EHS process and practice is strictly enforced (full time site officer during construction)

**Renewable resource initiatives**
- Kenya’s power supply is 90% Green
- The use of solar energy is designed to provide 520kW+ of power to the site
- Primary source of water is a borehole to be dug on site and treatment with backup from utility
- Recycled plastic products are used in construction materials

**KEEP IT AFRICA PRINCIPALS & OBJECTIVES**
- Materials selected from the local supply chain
- Distance materials travel is minimised
- Ongoing support is available by local supply chain vs importing labour
- Drive a “Buy Local” ethos
- Materials sourced that are easily available locally
- Corporate responsibility to minimise impact and maximise benefits
- Carbon footprint of logistics is reduced
- Wealth is distributed within region rather than exported
- Local systems can be installed by local vendors
- Ease of access results in JIT procurement and reduces stockpiling
- Driving an industry shift to KIA vs importation of materials
- Corporate positive impact on both local and regional community

**IMPACT ON LOCAL MARKET**
- iXAfrica has a Keep it African (“KIA”) procurement framework focusing on sustainability, renewable resources and social responsibility
IXAFRICA Data Centre
Kenya is the gateway to East and Central Africa

Access to a population of ~400M with low latency

- Somalia: 112 million
- Ethiopia: 112 million
- Kenya: 44 million
- Uganda: 44 million
- Rwanda: 12 million
- Burundi: 11 million
- Democratic Republic of Congo: 95 million
- Tanzania: 58 million
- S. Sudan: 11 million
- Uganda: 44 million
- Rwanda: 12 million
- Burundi: 11 million
- Democratic Republic of Congo: 95 million
State-of-the-art Design
Meet the demands of the world’s leading hyper-cloud and internet customers

The IX Africa campus is a purpose-built tier III development which is concurrently maintainable with redundant distribution to all critical equipment, allowing 99.999% uptime.

POWER – Electrical and Mechanical critical infrastructure

- Target PUE 1.25 across campus
- Full site IT Power – 22.5MW
- N+1 Redundancy with four independant power trains
- One 66KV Gas Insulated substation
- Four 11KV distribution stations (11KV switchboards)
- 20 11KV diesel generator sets (2.5MVA each) with 70hr run time
- 28 11/0.4KV 2.5MVA Step-down transformers
- 28 400V 1MW UPS

COOLING

- ASHRAE compliant for optimal efficiency and performance
- Data centre specific cooling technology offering compact footprint with low energy consumption (improving site PUE at partial IT load deployments
- Autonomous Indirect Adiabatic Cooling (IAC) system
- Each data hall is designed to incorporate a minimum of N+1 IAC units
- Although water is not required to maintain cooling duty there is a simple distribution system and storage. IAC units provide full mechanical cooling, borehole water is used to maximize efficiency

- concurrently maintainable
- redundant distribution to all critical equipment allowing 99.999% uptime
State-of-the-art Design
Meet the demands of the world’s leading hyper-cloud and internet customers

WATER SUPPLY
- Two diverse water supplies
- the utility company, NWSC
- Bore hole
- Water treatment plant
- Waste management
- Bulk storage of water

FIRE DETECTION & SUPPRESSION
- Fire detection system throughout the building is based on Smoke & Heat detectors with sounders and beacon as required by standard and regulations.
- An Aspirating Smoke Detection system - VESDA- will be installed in the Data Hall and MMR’s for early smoke detection of a fire.
- Dual action Sprinkler systems are used to protect the Data halls and the MMR’s, in the event of fire. MIST
- A Dry Sprinkler system in other areas - offices, corridors, storage, etc. protecting the personnel.

SECURITY – MANNED – PHYSICAL – DIGITAL – DATA
- 7+ levels of security
- Vehicle and pedestrian air locks
- Colour motion activated HD CCTV
- Motion activated lighting (solar for the external external)
- External 24/7 manned guard house controlling both pedestrian and vehicle access into the campus
- One way traffic system - fully enclosed campus
- Non contact secure access security system and processes using biometric access control with Face Recognition
- Redundant and Segregated internal Network Infrastructure utilizing logical and physical network segregation where required
Carrier Neutral
Concentration of major network connectivity, offers genuine carrier neutrality

- Access an ecosystem of 20+ carrier networks
- 4 secure, diverse fibre entry points
- 4 independent MMRs
- Demarcation hand-off frames
- Each Data Hall connects to each MMRs
- Zone on roof for dedicated GPS/dishes
- Teleport
Excellent Service
World-class customer care service with comprehensive technical support

- Fast response 24/7/365 on-site support
- Project management and build out
- Installation and support services
- Site logistics support and management
- Self-service customer portal and reporting
- Remote and smart hands
- Managed deliveries
- Meeting room space, hot desk zone and free WiFi
- Welfare zone for customers

Our recruitment team focuses on talent and hires professionals in Engineering with expertise in:

- Electrical
- Mechanical
- Cooling
- Networking
Bespoke Data Halls

Working in collaboration with hyperscale customers to meet specific requirements

- Bespoke dedicated Data Hall and suite designs
- Data Halls can be divided for different size deployments
- Customised power and containment systems
- Accommodate different density requirements
- Security enhancements over and above existing systems
- A multitude of rack sizes can be employed
- Designed to meet different redundancy models
- Distributed redundant, block redundant or 2N
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