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Mombasa Two (MBA2) Data Center

Nyali, Mombasa

Main Site Features

Mombasa Two (MBA2)

SITE INFORMATION AND LOCATION

NAME	MOMBASA TWO (MBA2)
DATA CENTER LOCATION	Located on Kongoni Road off Beach Road, Nyali - Mombasa, Kenya
COORDINATES	-4.04207, 39.70012
AIRPORTS / RAIL STATIONS	Moi International Airport (14.2 km) Mombasa West Railway Station (SGR) (19.7km)
DISTANCE TO NEAREST BEACH MANHOLE	2 km along the road
MAJOR ROADS NEARBY	Links Road, Beach Road

TOTAL SITE FEATURES

TOTAL AREA	4,460 sqm
TECHNICAL SPACE	Data Hall 1: 550 sqm Data Hall 2: 550 sqm Meet Me Rooms: 160 sqm Energy Centers: 452.5 sqm
BUILDING FOOTPRINT	Length 54.7m x Width 30.5m
FLOOR LOADING	1,500 kg/sqm
RAISED FLOOR HEIGHT	Data Halls: 1,000 mm Technical Rooms: 800 mm
ACCESS TO BUILDING	24 hours a day, 7 days a week, 365 days a year

BUILDING

Floors
- Reinforced concrete floor slab with integral waterproofing admixtures
- Final finish – Epoxy
- Raised floor in technical rooms

Walls
- Waterproof plasterwork finished with marine grade low VOC silicone paint
- Reception area walls finished with local coral stone and sustainable timber cladding

Roofs
- Reinforced concrete roof slab with integral waterproofing admixtures
- Final finish -Concrete roof tiles on the secondary waterproofing layer

Doors
- Steel [Galvalume Type] Sheet as Per ASTM 792, based on Coating Designation AZM 150
- CR: Multiple entries, Double leaf-swing W 1,920*H 2,870
- 60 mins fire rating

Elevators
- Redundancy: N+1
- Size of doors: 1,800 mm W x 2,500 mm D x 2,800 mm H
- Car platform: 1,800 mm W x 2,700mm D x 3,000 mm H
- Weight Capacity: 2,500kg

ISO Building Class 6

ADDITIONAL SPACE	Delivery, Storage and Staging Areas Client Meeting Rooms, Kitchenette

DATA CENTER FEATURES

TYPE OF SPACE AVAILABLE FOR COLOCATION	¼, ½ and full rack of up to 52U cabinets in plain open space, caged space
UTILITY FEATURES	3.9MVA fully rated, 11,000V with 2 diverse feeds and 1 dedicated line
DISTRIBUTION TO RACK	2N (A & B feed) with a single phase and/or 3-phases from 16A to 64A
GENERATORS	4 X 1,220kW Data Center Continuous duty, certified and tested
REDUNDANCY	N+1 Generators, 2N UPS, N+2 Cooling in Customer Room, N+1 Cooling in Technical Rooms, 2N MMR, 2N Fibre Entry
UPS	3 X 1,250kW Galaxy VX = 2N
LIGHTING	Energy efficient LED with KNX sensor lighting control
FLOOR TILES	600mm * 600mm
FLOOR GRILL AIRFLOW	1,810 to 3,650 m³/hr
FLOOR VOID	800mm
CUSTOMER SUPPORT	Remote hands and eyes, Cross-Connects, reception and storage of equipment

COOLING AND ENVIRONMENT

TEMPERATURE SET POINT	15°C to 32°C with a set point of 24°C
REDUNDANCY	N+2 CRACS in the Customer room, N+1 CRACS in Technical rooms with redundant power supply and built-in ATS, and 50% of cooling on UPS
IN RACK COOLING CAPABILITY	Available if required
HUMIDITY SET POINT	20% – 80%
STANDARDIZATION	ASHRAE 2015 Class A1

DC POWER PLANT

POWER	2 x 96kW
BATTERY	2 hours
CONFIGURATION	2N in 2 separate rooms

CONNECTIVITY

CARRIER NEUTRAL	Yes, multiple carriers available
FIBRE ENTRY	2 diverse routes
DIVERSITY	Multiple fibre entries from multiple carriers ensures redundant connections
LOCAL AND INTERNATIONAL CONNECTIONS	Multiple local and international access carriers to provide reliable and affordable connections
PEERING	Available

SECURITY

ACCESS TO SITE	24*7*365 on-site security team, proximity badge and biometric protection
SECURITY ON SITE	Five physical security zones and dual security control provide defence in depth
SECURITY MONITORING	71 on-site CCTV cameras, monitored 24*7 from NOC
DELIVERY & LOADING	Secure managed delivery and loading area available 24*7*365 Prior notification and details of requirements e.g. Forklifts
CCTV + ACCESS CONTROL	Records kept for a minimum of 90 days
STAGING	Dedicated secure staging area
CERTIFICATION	PCI DSS, ISO27001 – Ongoing

FIRE DETECTION AND SUPPRESSION

FIRE DETECTION	All Areas
VESDA FIRE ALARM	Early Warning System
FIRE SUPPRESSION SYSTEM	FM 200 Inert Gas

SLA

UPTIME	99.999 guaranteed uptime on power

EFFICIENCY

POWER USAGE EFFICIENCY	Design 1.4

BUILDING MANAGEMENT SYSTEMS

FACILITIES MANAGEMENT	Experienced 24*7*365 facilities management team
ENVIRONMENTAL CONDITIONS	Continuously monitored in all technical areas
ENERGY METERING SYSTEM	Comprehensive energy metering system recording regular time series consumption data throughout the electrical infrastructure

CONTROL

BMS	Proprietary system with proactive warning systems and automatic environmental and power controls with redundancy
CABLE MANAGEMENT	Full cable inventory and sophisticated cable management

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