BA-PHALABORWA MUNICIPALITY

- Budget and Treasury -

Procurement and Stores

TO : **Prospective Service Provider**
FROM : *SCM /STORES*
DATE : *15/06/2018*
ENQUIRIES : *STORES*
TELEPHONE : *015 780 6479/6362/61*
REF : *134003*

Kindly furnish this office with a written quotation for supply of goods/ services as detailed below. The quotation must be submitted on the letterhead of your Business and Brought to our offices 3 Nyala Street, Phalaborwa not later than 25/06/2018 at 12H00.

QUANTITY	Description	PRICE/UNIT (Inc .VAT)	DELIVERY PERIOD
06	Wireless access point indoors		
	See the attached specification		

Please number your quotes (Your Ref no)

The following conditions will apply:

➢ *Price (s) quoted must be valid for at least thirty (30) days from date of your offer.*
➢ *The municipality retains the prerogative to reject any quotes it deems to be excessive*
➢ *A firm delivery period must be indicated.*
➢ **Original Tax Clearance Certificate or certified copy**
➢ **Registered with CIPRO (CK 1 or 2 document)**
➢ **BBBEE Certificate certified by a SANAS accredited institution or certified sworn affidavit.**
➢ **Fill in and Return the Declaration of Interest Form (MBD4 Form) obtainable from our website.**
➢ **Centralised Suppliers Database printout (summary report)**

Disclaimer: The Municipality reserves the right not to appoint on this RFQ. Goods of inferior quality will not be accepted. SABS approved materials required

SPECIFICATIONS

ACCESS POINT SPECIFICATIONS

Standards	IEEE 802.11a/b/g/n/ac Wave 2 Others: 802.11 h/d/r/u/w/
MIMO Streams	2x2 MIMO streams.
Range	180 m (650 Ft)
Concurrent Clients	256
Max Data Rates	867 Mbps
SSID	16 SSIDs across 2 radios
Antenna gain	4.55 dBi (2.4 GHz)/4.25 dBi (5 GHz)
Multi-Hop Mesh	Yes. Supported on Indoor & Outdoor access points. Mesh auto-recovery supported
Polarization	Dual-linear
Antenna Coverage	Omni (360°)

Ethernet Ports	One (1) x 1 Gigabit Ethernet (10/100/1000 Mbps)
Frequency bands	2.4 GHz: 2400-2484 MHz 5 GHz: 5150-5850 MHz with DFS band support
Power Supply	Standard 802.3af injector (supplied) or any PoE switch
Power Consumed	13W (max)
Dimensions	170 x 170 x 41 mm (17 x 17 x 4.1 cm)
Weight	384grams (0.384kg)
Temperature	0°C to +50°C
LED	Single LED window with tri color (Amber, Blue, Green) display
Max TX Power	+25 dBm
Physical Lock	Kensington key hole

WI-FI FEATURES

Controller modes	• Autonomous Controller-less operations (E.g.: roaming) • Cloud Managed • On-premise virtualized controller
Secure WLAN	WPA-TKIP, WPA2 AES, 802.1x 802.11w (Protected Management Frames)
Hotspot 2.0/Passpoint	Yes
Captive Portal/ Guest Access	• cnMaestro Controller • Stand-alone AP based• Redirection to external RADIUS Server • Active Directory Integration
Authentication	Secure Web page, RADIUS based 802.1x including EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, and EAP-TLS MAC authentication (local database or External RADIUS server)
Accounting	Yes. Supports RADIUS based accounting to multiple AAAs
Scheduled SSID	Turn SSID ON/OFF on a daily/weekly/time of day basis
VLAN	Dynamic VLAN assignment from RADIUS server. VLAN per SSID per user, VLAN load balancing
Data Limiting	Dynamic rate limiting of client traffic per SSID & per client
Subscriber QoS	WMM
Client Isolation	Yes
Controller-Less Fast Roaming	• Yes. 802.11r, Opportunistic Key Caching supports Enhanced roaming Disconnect for sticky clients
Airtime Fairness	Yes
Meshing	Multi-hop meshing supported (3)

ACS: Automatic Channel Selection	Yes. Set at start or run periodically
NAT	Yes
DHCP Server	Yes
Firewall	Yes. NAT logging
ACL, DNS-ACL	Yes. L2, L3 or DNS based access control
Band Steering Band Balancing	Yes
Airtime Fairness	Yes
Tunneling	• L2TP • L2oGRE • PPPoE
Tools	• Packet capture • IP connectivity • Wi-Fi analyzer • Wireless Sniffer • Tech support (logs)
Services	NTP server config — cnPilot's critical resource service awareness feature reacts to the Syslog servers SNMP traps support — health of an external Gateway DNS proxy — or AAA and turns SSID ON/OFF
APIs	Presence Locationing API
Certifications	FCC, ETSI, CE EN 60601-1-2 (Medical EMC) UL2043 Plenum rated

cnMAESTRO WI-FI CONTROLLER

Cloud & On-Premises	Available in the Cloud or as a downloadable VMware° image (On-premises)
Common Manager	Manage both cnPilot and Cambium's ePMP and PMP 450 radios
Troubleshooting	Single screen wireless view, showing Wireless backhaul, Access point & clients
Frictionless On-Boarding	Secure large scale bulk onboarding Zero touch bulk configuration and provisioning
Device Inventory	Inventory tracking and reporting
Monitoring	Insightful status monitoring; rich visibility to device lifecycle Alarms and events management – Critical/Major/Minor Statistics graphs and table display Alarm traffic light display

Key Stats Monitoring	7 day historic stats
Portal Hosting	Setup Hotspot portals segmented by SSIDs
Voucher	Time and Rate limited Guest access portals with Vouchers for 1,000 client devices
Social Login	Facebook, Google
Site Grouping	Group sets access points for convenient management
Client Insight	Shows client history with aggregate client manufacturer views
Multiple Admins	Multiple admin provisioning per account
Software Upgrade	Ability to upgrade multiple WiFi devices at a time