



ALFRED NZO
DISTRICT MUNICIPALITY

TERMS OF REFERENCE
INSTALLATION OF NETWORK ACCESS POINTS (NTABANKULU AND MOUNT
FRERE)
2020/21 FINANCIAL YEAR

Issued and Prepared by:
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1. BACKGROUND AND OVERVIEW OF THE PROJECT

1.1 INTRODUCTION

Alfred Nzo District Municipality is hereby inviting suitably qualified and accredited Service Providers to submit their quotations to acquire services of the suitable Service Provider for the **Installation of Network Access Points at Ntabankulu and Mount Frere.**

1.2 OVERALL AND SPECIFIC OBJECTIVES OF THE PROJECT

1.2.1 Overall objective

The aim of the project is to implement Network Access Points for Ntabankulu and Mount Frere to enable them access to ANDM network using Wi-Fi capable devices.

A) SPECIFICATION

ITEM NO.	DESCRIPTION	QTY
	<p>Aironet 3600 Series Access Points</p> <ul style="list-style-type: none">• The Aironet 3600i Access Point: Indoor environments, with internal antennas' AIR-CAP3602I-x-K9 - Dual-band controller-based 802.11a/g/n• Unified Wireless Network Software Release with AireOS Wireless Controllers: 7.2 or later for the Aironet 3600 Series Access Point• IOS Wireless Controllers: 5760 Wireless LAN Controller, Catalyst 3850 Series Switches, and Catalyst 3650 Series Switches.• Supports the IEEE 802.11ac specification and the features defined by the Wi-Fi Alliance for the first wave of Wi-Fi CERTIFIED 11ac 4x4 multiple-input multiple-output (MIMO) with three spatial streams	8

2.	<p>AIR-CT2504-5-K9 2504 Wireless Controller</p> <ul style="list-style-type: none"> • Wireless Standards-IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11k, 802.11n, 802.11r, 802.11u, 802.11w, and 802.11ac. • Wired/Switching/Routing-IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX specification, 1000BASE-T, and IEEE 802.1Q VLAN tagging • Data Request for Comments (RFCs)-RFC 768 UDP, RFC 791 IP, RFC 2460 IPv6 (pass-through bridging mode only) • Security Standards- Wi-Fi Protected Access (WPA), IEEE 802.11i (WPA2, RSN), RFC 1321 MD5 Message-Digest Algorithm, RFC 1851 The ESP Triple DES Transform • Encryption- WEP and Temporal Key Integrity Protocol-Message Integrity Check (TKIP-MIC): RC4 40, 104 and 128 bits (both static and shared keys), Advanced Encryption Standard (AES): CBC, CCM, and Counter Mode with Cipher Block Chaining Message authentication Code Protocol (CCMP). Secure Sockets Layer (SSL) and Transport Layer Security (TLS): RC4 128-bit and RSA 1024- and 048-bit DTLS: AES-CBC • Management Interfaces- Designed for use with Cisco Wireless Control System, Web-based: HTTP/HTTPS individual device manager, Command-line interface: Telnet, SSH, serial port • Interfaces and Indicators – Console port: RJ-45 connector. Network: Four 1 Gbps Ethernet (RJ-45). LED indicators: Link Activity (each 1 Gigabit Ethernet port), Power, Status, Alarm 	2
3	<ul style="list-style-type: none"> • Authenticate using existing Active Directory 	

2. SCOPE & EXTENT OF WORK

- The Service Provider (SP) is required to install four (4) Access Points (AP's) per site.
- The Service Provider (SP) is required to install one (1) Network Access Controller per site i.e. One for Ntabankulu and one for Mount Frere.
- Connection to Access Points (AP's) should not be lost (set up ad-hoc)
- Service Provider (SP) must install and configure one Network Access Controller (*AIR-CT2504-5-K9 2504 Wireless Controller*) to link local AP's per site.
- Network Access Controller should connect to the ANDM current network
- The Service Provider (SP) must ensure that Access Points (AP's) are controlled by authentication using existing Active Directory.
- Access Points (AP's) must be Power Over Ethernet (PoE) enabled

NB: A compulsory briefing session will be held to clarify the Scope of Work with prospective bidders on the _____ 2020.

3. PROJECT TIME FRAME

The project time frame will be 30 days from the date of appointment of the service provider. Provide a proper work plan on turnaround time.

4. KEY OUTPUTS/PROJECT MILESTONES/DELIVERABLES

- Project closeout report
- Completion Certificate

5. PROJECT MANAGEMENT

In cases where the appointed service provider appoints the services of other consultants or sub-contractors, the appointed service provider will take responsibility of the work of the sub-contractors. The client will deal with the contracted service provider and not with sub-contracted consultants. The project is to be coordinated and managed by an operational team led by Alfred Nzo District Municipality.

6. REPORTING MECHANISM

It is expected that regular progress reports will be submitted to ANDM and further presented to the Project Manager on a weekly basis. The Project Manager has the right to change the frequency of reporting as and when necessary.

7. SUBMISSION OF BIDS

Proposals must be placed in a sealed envelope and clearly marked: "Project proposal – Installation of Network Access Points (Ntabankulu and Mount Frere)" and placed in the bid box in the Alfred Nzo District Municipality not later than 10H00 on the_____.

8. EVALUATION CRITERIA

Evaluation criteria of the quotations;

The bids will be evaluated in two stages, namely:

- Stage 1- Functionality
- Stage 2- Price and BBBEE Points

Only Bidders who score 70% or more on stage 1 would be evaluated further and therefore eligible for the award.

ITEM	Weight
STAGE 1 OF EVALUATION – FUNCTIONALITY	100
• Previous Experience	60
• Capacity and Expertise	40
STAGE 2 OF EVALUATION – PRICE & PREFERENTIAL POINTS	100
BBBEE POINTS	20
Price	80

Previous Company Experience in Wireless Networking	Weighting
Note: The scoring in this section is not cumulative	
Traceable record for successful completion of a minimum of 03 or more Wireless Networking to the value of R50 000.00 each.	60

Traceable record for successful completion of a minimum of 02 Wireless Networking to the value of R50 000.00 each.	50
Traceable record for successful completion of a minimum of 01 Wireless Networking to the value of R50 000.00 each.	40
Maximum Weighting	50
<p>Note COMPULSORY attachments for verifying work done:</p> <p>1. The ANDM Assessment Bidder Form must be completed, stamped and signed by previous employer as a means of verifying references for each project undertaken. If 3 Projects were done, 3 Assessment bidder forms must be completed.</p> <p>2. In ADDITION to the above, a traceable record will be evaluated on the basis of:</p> <ul style="list-style-type: none"> - Official purchase order / Appointment letter 	

Capacity and Expertise to Undertake the Project	Weighting
Note: The scoring in this section is preferably cumulative, unless justifiable to the Specification Committee	[40]
A Project Team with the following areas of expertise:	[40]
One or more personnel must be registered to Networking certification {preferable Cisco Certified Network Associate (CCNA) certification or Interconnecting Cisco Networking Devices certification(ICND)}	20
One or more personnel must be registered to Wireless Networking certification (preferable Cisco Wireless Certification)	10
One or more personnel must be registered to cabling certification. (preferable Krone Certification)	10
Maximum Weighting	40
NB: Attach CV and certified copies not older than 3 months for all qualifications	

**Alfred Nzo district Municipality
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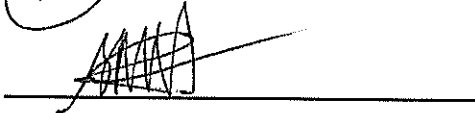
Yours in municipal administration,



**MR. L. MATIWANE
SENIOR MANAGER: CORPORATE SERVICES**

Recommendation by Specification Chairperson:

Approved/Not Approved



Mr. L. Mdutyana

Comments by Chairperson:

Approved
