

AIR TRAFFIC AND NAVIGATION SERVICES CO. LTD

REPUBLIC OF SOUTH AFRICA



ANNEXURE A

TECHNICAL SPECIFICATIONS

APPOINTMENT OF A SUITABLE SERVICE PROVIDER FOR SUPPLY AND DELIVERY OF COMPUTER EQUIPMENT (2X SERVERS) THAT HAS REACHED THE END OF DESIGN LIFE IN THE OPERATIONAL ENVIRONMENT AT THE AIR TRAFFIC SERVICES UNIT AT OR TAMBO INTERNATIONAL AIRPORT (FAOR). FURTHERMORE, THE SCOPE ALSO INCLUDES THE DISPOSAL OF OLD EQUIPMENT AND A WARRANTY FOR THE NEW EQUIPMENT IN RESPECT OF RFQ:ATNS/TPQ- 2XFAOR SERVER /171123-2

DECEMBER 2023

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TABLE OF CONTENTS

ABBREVIATIONS..... 3

1. SCOPE OF WORK..... 4

2. SUMMARY OF REQUIREMENTS..... 4

 2.1 Items Required 4

CHAPTER 1: COMPUTER EQUIPMENT REQUIREMENTS 4

 1. GENERAL 4

 2. SERVER..... 4

 2.1 Aviation Weather Display System (AWDS)..... 4

CHAPTER 2: PROJECT MANAGEMENT REQUIREMENTS 6

 1. GENERAL 6

CHAPTER 3: LOGISTICS REQUIREMENTS 7

 1. WARRANTY 7

 2. DELIVERY..... 7

ABBREVIATIONS

ATNS	Air Traffic and Navigation Services SOC Ltd
ATSU	Air Traffic Services Unit
AWDS	Aviation Weather Display System
CPU	Central Processing Unit
DAID	Digital Airfield Information Display
FABL	Bram Fischer International Airport
FACT	Cape Town International Airport
FAOR	OR Tambo International Airport
HDD	Hard Disk Drive
LAN	Local Area Network
OTN	Open Traffic Network
OS	Operating System
PC	Personal Computer
Qty	Quantity
RAM	Random Access Memory
RASS	Radar Analysis Support System
SAAF	South African Air Force
SSD	Solid State Drive
USB	Universal Serial Bus
VHF	Very High Frequency
VM	Virtual Machine

1. SCOPE OF WORK

The project calls for the acquisition, supply and delivery of computer equipment to replace computer equipment that has reached the end of design life in the operational environment. Furthermore, the scope also includes the disposal of old equipment and support for the new equipment where necessary. The items to be procured will be delivered to the following stations:

- OR Tambo International Airport (FAOR)

2. SUMMARY OF REQUIREMENTS

2.1 Items Required

The table below is a summary of the equipment required at each station.

Table 1: List of computer equipment required.

Station	Computer Requirements	Use	Quantity
FAOR	Server	Aviation Weather Display System (AWDS) – Running aviation weather applications including DAID Weather MAPS and receiving SAAF data.	2

CHAPTER 1: COMPUTER EQUIPMENT REQUIREMENTS

1. GENERAL

[A] *The required Operating System specified herein for each computer equipment shall be provided and installed through the existing Enterprise Licensing Agreement that ATNS already has with Microsoft.*

2. SERVER

2.1 Aviation Weather Display System (AWDS)

[A] Below is the quantity and station where the servers for the AWDS system are required.

System	Quantity	Station (Qty)
AWDS	2	FAOR (2)

[B] The server shall meet the following specifications:

Operating System	Latest Windows Server Operating System (OS)
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CPU	Latest Intel Xeon processor
RAM	64GB
Minimum installed internal storage	3.4TB Hard Disk Drive (HDD)
Networking Connector	At least 1 RJ45 Ethernet
Network Card	10/100/1000 Ethernet

[C] Each server should support up to 6 VM servers.

CHAPTER 2: PROJECT MANAGEMENT REQUIREMENTS

1. GENERAL

[A] A schedule detailing the proposed timelines for the milestones that will ensure the successful completion of the project is required. The proposed schedule, timelines and milestones shall be included in the Bidder response.

[B] The schedule shall clearly indicate the delivery and completion milestones. The target dates for delivery and completion shall be clearly highlighted in the bid response.

CHAPTER 3: LOGISTICS REQUIREMENTS

1. WARRANTY

[A] All computer equipment shall have at least a three (3)-year warranty.

[B] The warranty shall cover all malfunctions on the system as well as their auxiliaries.

2. DELIVERY

[A] Delivery of all computer equipment to the station is the responsibility of the supplier. The Bidder shall submit a comprehensive delivery plan.

[B] The computer equipment shall be delivered at the stations listed below.

Table 2: Delivery locations.

Station	Delivery Site	Computer Requirements	Quantity
OR Tambo International Airport (FAOR)	OR Tambo International Airport (FAOR)	Server	2

[C] The Bidder shall bear the costs for breakages of any equipment during transportation.