

PROCUREMENT OF REQUIRED SFP MODULES FOR THE HIGH PERFORMANCE COMPUTING (HPC) SYSTEMS AND EQUIPMENT FOR LOCAL AREA NETWORK (LAN) UPGRADE PROJECT.

1. INTRODUCTION

The Agricultural Research Council (ARC) was established by the Agricultural Research Act 86 of 1990 (as Amended) and is the premier agricultural research institution in South Africa. It is a schedule 3A public entity in terms of the Public Finance Management Act 1 of 1999, as amended by Act 29 of 1999. ARC conducts research with partners, develops human capital, and fosters innovation to support and develop the agricultural sector. The ARC conducts its core business operations on several research Campuses (12) across South Africa and the Central office is in Hatfield, Pretoria.

The ARC has a Hybrid work environment configured (e.g. Office and Remote) that includes cloud services. ARC network spans across the country in various geographical locations. The network configuration is as follows:

- 2 Local ISPs provide Wide Area Network (WAN) connectivity to each location via layer 2 local loop circuits.
- ARC's Core Routing and Corporate Infrastructure are hosted in two data centres that specialize in hosting services.
- Each research campus runs on a different network range
- Each research campus runs ICT services locally e.g. Telephony, DHCP, DNS, and connects to centralized Corporate Services
- Traffic is segmented using Virtual Local Area Networks (VLANs) and IP Subnets

2. PROCUREMENT OBJECTIVE

The Local Area Network (LAN) for 3 ARC Research campuses will be upgraded which are ARC-AE, ARC-SCW, and ARC-OVR. In addition to the project, the ARC has procured an HPC which will be hosted at Teraco in one of the Hosting DCs ARC has presence in.

There is a requirement to procure additional components required for the 2 projects that are running simultaneously.

3. PROCUREMENT REQUIREMENTS

The Agricultural Research Council (ARC) seeks to procure the following:

Description		Part Number	Quantity
10Gig Ethernet SFP+ Module, 850nm, MMF 26-300m, LC connector		10301	16
HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver		455886-B21	16
Console cables (RJ-45 to USB, and USB-C to USB-C cable)			6
Console Cable Type	Console cables (RJ-45 to USB) 1.5 Meter USB to RJ45 Console Cable FTDI RS232 Cable FT232 Interface Cable for Cisco and other Managed routers/switches		
Quantity	3		
Console Cable Type	USB-C to USB-C cable 1.5 Meters		
Quantity	3		
Brady BMP21-PLUS (Twin engine system for tube & tape) N.B: Kindly ensure your deliver the complete Label Printing Machine			1
Brady BMP21-PLUS Cartridges – N.B: Total of 6 Cartridges as per the Cartridge Model Number			6
B-427: Self-laminating Vinyl	M21-750-499		
Colour	Black on White		
Label Width A (mm)	19.05		
Quantity	3		
B-427: Self-laminating Vinyl	M21-750-595-WT		
Colour	Black on White		
Label Width A (mm)	19.05		
Quantity	3		