TECHNICAL SPECIFICATIONS

PROCUREMENT OF IT INFRASTRUCTURE AND EQUIPMENT FOR THE BUREAU OF STATISTICS (BoS) OF THE KINGDOM OF LESOTHO

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1. BACKGROUND

As part of the Equitable Lesotho: Strengthening the National Statistical System project, funded by the European Union and implemented by Expertise France, the Bureau of Statistics (BoS) will be supported in strengthening its institutional and technical capacities to improve the production, management, analysis and dissemination of official statistics. One of the project's key activities is the provision of ICT equipment and statistical software to enhance data processing capabilities and support the effective functioning of the National Statistical System (NSS).

The Bureau of Statistics (BoS) currently faces significant ICT infrastructure constraints that limit its ability to fulfil its mandate. During the project scoping mission, it was observed that although the BoS possesses strong technical expertise and produces a substantial amount of statistical data, its ICT infrastructure is insufficient to adequately support data collection, processing, storage, analysis and dissemination. Existing equipment is outdated, and limited investment in ICT has constrained the Bureau's operational efficiency and its capacity to provide timely and accessible official statistics.

To address these challenges, Expertise France intends to procure ICT infrastructure and equipment for the Bureau of Statistics. The equipment covered under this procurement includes high-performance desktop computers, servers, networking equipment, rack infrastructure, uninterrupted power supply (UPS) systems, wireless access points, multifunction printers and other associated ICT components required to strengthen the BoS ICT environment and support the implementation of its statistical activities.

The purpose of this procurement is to enhance the reliability, security, performance and resilience of the Bureau's ICT infrastructure, thereby improving its capacity to collect, process, store and disseminate official statistics, while supporting evidence-based policymaking and monitoring of national development priorities and the Sustainable Development Goals.

This Technical Specifications document defines the minimum technical requirements for the supply, delivery and warranty of the ICT equipment to be procured under the project.

2. OBJECTIVES OF THE PROCUREMENT

The objective of this procurement is to strengthen the information and communication technology (ICT) infrastructure of the Bureau of Statistics (BoS) through the acquisition of ICT equipment required to support its statistical operations and institutional functions under the Equitable Lesotho: Strengthening the National Statistical System project.

More specifically, the procurement aims to:

- Strengthen the ICT infrastructure of the BoS through the provision of desktop computers, servers, networking equipment, power backup systems, printers and other ICT equipment required to support the production and management of official statistics.
- Enhance the Bureau's capacity to collect, process, store, analyse and disseminate official statistics by providing reliable and high-performance ICT equipment that supports its core statistical functions.
- Improve the reliability, performance and security of the Bureau's ICT environment by replacing or complementing existing ICT infrastructure with modern equipment that supports the continuity of statistical operations.

- Contribute to the implementation of the Equitable Lesotho project by providing the ICT resources necessary to strengthen the National Statistical System and support evidence-based policymaking and the monitoring of national development priorities and the Sustainable Development Goals.

3. SCOPE OF THE PROCUREMENT

The purpose of this procurement is the supply of ICT equipment for the Bureau of Statistics (BoS). The procurement covers the supply of the equipment listed below, in accordance with the technical specifications and quantities defined in this document.

Network and Power Infrastructure		
Server	HPE ProLiant compute *DL380 Gen 12* Server *Processor:* Intel Xeon 6 processors, 64 core 3.9GHz max *RAM:* 128 GB *Storage:* 8 TB SSD RAID1 *10 GBPS LAN Network Adapter* *Power Supply:* 800W, 1000W, 1600W or 1800W-2200W Dual hot-plug redundant OS: win server 2022 licensed 1-year on-site warranty by Supplier	1
48 U-Rack with 15 KVA rackmount UPS (Installed)	*Vertical Space*: 48U (Each U is 1.75 inches or 44.45 mm) *Width:* Standard 24" (600 mm) or Wide 30" (750–800 mm) for extra cable management *Depth:* Typically, 42" (1050 mm) or 48" (1200 mm) to accommodate deep, modern AI/ML GPU servers *Mounting Standard:* Conforms to EIA-310-E for 19-inch rackmount equipment	1
KVM Switch	Rackmount KVM Drawer with High Density USB VGA KVM Switch – CAC Card Reader Compatible *RACKMUX-V17-N-16USBHDUT* Control up to 16 USB computers from 1RU of rack space. KVM switch built-in 1RU KVM drawer Rack mount USB KVM drawer switch Monitor switch KVM drawer, USB console drawer Keyboard monitor touchpad mouse drawer Keyboard LCD shelf, folding VGA monitor. 1-year on-site warranty by Supplier	2
UPS	APC Smart-UPS RT 15kVA, 208V, LCD, rackmount, 12U, 4x NEMA L6-20R & 2x NEMA L6-30R outlets 15kVA power capacity for high-demand applications, 208V input for efficient power distribution Rackmount design fits 12U space for flexible installation LCD display for easy monitoring and management *Replacement battery* 1-year on-site warranty by Supplier	2

Switch	CISCO Switch *C9200L-24P-4G-E* Downlinks total 10/100/1000 or PoE+ copper ports 24 ports full POE+ Uplink configuration 4x 1G fixed uplinks Default primary AC power supply PWR-C5-1KWAC Fans Fixed redundant Software Network Essentials Stacking bandwidth 80 Gbps DRAM 2 GB Flash 4 GB Switching capacity 104 Gbps 1-year on-site warranty by Supplier	6
Wireless Access Points:	(WAVLINK Wi-Fi 7 Wireless Access Point - BE5100 Dual Band Ceiling-Mount AP) Model WL-WNA501HBE2 Wireless Standard IEEE 802.11b/g/n/a/ac/ax/be Frequency band 2.4GHz, 5GHz Speed 2.4 GHz: 688Mbps 5 GHz: 4324Mbps	10

5. GENERAL REQUIREMENTS

- ✓ All equipment supplied under this procurement shall be new, unused and of current production, and shall not be refurbished or discontinued products.
- ✓ All equipment shall be supplied with all standard accessories, power cables and other components necessary for its intended operation.
- ✓ All equipment shall be of enterprise-grade quality, suitable for professional use and designed to provide reliable performance in an institutional environment.
- ✓ The supplier shall provide the manufacturer's standard warranty for all equipment supplied. The duration and conditions of the warranty shall be clearly indicated in the technical offer. Where specified in these Technical Specifications, longer warranty periods shall apply.
- ✓ The supplier shall confirm the availability of spare parts and technical support for the proposed equipment during the warranty period.
- ✓ All equipment shall comply with the applicable international quality, safety and environmental standards and certifications relevant to the proposed products.
- ✓ The supplier shall guarantee that all equipment supplied is genuine, sourced through authorised distribution channels, and complies with the manufacturer's specifications.
- ✓ All user documentation, technical manuals and warranty documentation shall be provided in English.

6. DELIVERY

- ✓ The supplier shall deliver all equipment to the Bureau of Statistics (BoS), Maseru, Lesotho.
- ✓ All equipment shall be delivered within the delivery period specified in the Contract.
- ✓ The equipment shall be delivered in appropriate packaging to prevent damage during transportation and handling.
- ✓ Upon delivery, the equipment shall be inspected to verify compliance with the technical specifications, quantities and physical condition.