

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 Existing equipment is outdated, and limited investment in ICT has constrained the Bureau's operational efficiency and its capacity to provide timely and accessible official statistics.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.

Lot 1: Desktops and Laptops		
Item	Specifications	Quantity
Desktop	Processor: Intel Core Ultra 5 226V Memory: 32 GB DDR5 Storage: 1 TB PCIe Gen4 NVMe SSD Operating System: Windows 11 Pro Wireless Keyboard & Mouse	2
Monitor	Display: 24-27" IPS Business Monitor	7
Desktop with Monitor or AIO	Processor: Intel Core i7 (13th or 14th Generation) OR AMD Ryzen 7 (7000 series or newer). Minimum 16 Cores (Intel) / 8 Cores (AMD). Base clock speed $\geq$ 2.1 GHz. OS : Windows 11 Pro 64-bit Memory: 32GB DDR5 –MUST be configured in dual channel and support future expansion Storage: 1 TB PCIe Gen 4 x4 NVMe M.2 Solid State Drive (SSD). Minimum sequential read speed of 5000 MB/s. Mechanical Hard Disk Drives (HDDs) are strictly unacceptable. Display: 23.8"-27" diagonal wide-viewing display with tilt and swivel capabilities Video Output: Minimum 1x Dedicated Video Output port (DisplayPort 1.4a or HDMI 2.1) to natively support a secondary independent external monitor. Peripherals: 1x USB Business Keyboard (Standard QWERTY layout) and 1x USB Optical Scroll Mouse included in the box.	20
Laptop	Processor: Intel® Core™ Ultra 7 on Intel vPro® Storage: RAM 64GB ROM 1TB Display: 14" 2.8K OLED, add-on film touch/on-cell touch	5

Laptop	Processor: Intel Core Ultra 7 Storage: RAM 32GB ROM 1TB Display: 14" WUXGA On-Cell touch screen	28
Laptop Bag	17.3" laptop business backpack	5
Laptop Bag	Backpack with hidden stash pockets, fits 15.6" laptop and tablet. Spacious compartment and durable zippers and metal pulls.	28
Docking Station 1	Thunderbolt 4 – up to 40Gbps Displays: Supports dual 4K monitors at 60Hz or a single 8K display depending on your operating system. Power: Delivers robust power delivery and charging passthrough (typically 85W to 96W or more for the laptop). Compatibility: Works with Thunderbolt 4, Thunderbolt 3, and USB4-equipped Windows and Mac computers	2
Docking Station 2	Standard USB-C 5Gbps Displays: Single Display 4K @ 30Hz or 1080p @ 60Hz Power: Delivers 60w Charging output	5

Lot 2: Network and Power Infrastructure		
Server	HPE ProLiant compute <i>DL380 Gen 12</i> Server <i>Processor:</i> Intel Xeon 6 processors, 64 core 3.9GHz max <i>RAM:</i> 128 GB <i>Storage:</i> 8 TB SSD RAID1 <i>10 GBPS LAN Network Adapter</i> <i>Power Supply:</i> 800W, 1000W, 1600W or 1800W-2200W Dual hot-plug redundant <i>OS:</i> win server 2022 licensed <i>1-year on-site warranty by Supplier</i>	1
48 U-Rack with 15 KVA rackmount UPS (Installed)	<i>Vertical Space:</i> 48U (Each U is 1.75 inches or 44.45 mm) <i>Width:</i> Standard 24" (600 mm) or Wide 30" (750–800 mm) for extra cable management <i>Depth:</i> Typically, 42" (1050 mm) or 48" (1200 mm) to accommodate deep, modern AI/ML GPU servers <i>Mounting Standard:</i> 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 <i>RACKMUX-V17-N-16USBHDUT</i> 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
Switch	CISCO Switch <i>C9200L-24P-4G-E</i> 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	2
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	5

Lot 3: Printing and Photocopying		
Photocopier	Functions: Print, Scan, Copy, Fax Print Speed: Up to 33 pages per minute (color and black) Scanner: Single-pass duplex, up to 104 ipm (images per minute) Paper Capacity: 250-sheet standard tray + 50-sheet multi-purpose tray (expendable up to 1,300 sheets with optional trays) Display: 17.6cm (6.95-inch) color touchscreen Connectivity: Gigabit Ethernet, Wireless, USB 2.0, and NFC card reader	2
Desk Printer Tier 1	Automatic two-sided printing (duplex), Monochrome (Black & White): 15 to 40 pages per minute (ppm). Color: 10 to 30 pages per minute (ppm). FDW MFP. 1 year Warranty. Full capacity starter toner	15
Desk Printer Tier 2	MFP, Laser, FDW, ADF Duplex printer. Speed 61 ppm.	3
Shredder	Manual Sheet Capacity: 16 to 20 sheets per pass. Security: P-5 Micro-Cut (2 × 12mm). Duty Cycle: Continuous operation or an extended 25-minute cycle. Bin Volume: 30L to 60L pull-out drawer.	4

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 authorized 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) and Equitable Lesotho Project, 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.