Request for Quotation

NATIONAL METROLOGY INSTITUTE OF SOUTH AFRICA

Requested by:
Section: Aadil Essop

Telephone number: 012 974 2788

Email address: scm7@nmisa.org

Date: 09 November 2026

SUPPLIER'S INFORMATION

Prepared by:
Address : _____

Telephone no: _____

Email address: _____

Date: _____

I hereby request the quotation on behalf of NMISA as per below specification/ Terms of Reference.

Description	Qty	Unit Price (excl. VAT)	Total Price (excl. VAT)
Supply the components below for two scanner heads and one central hub. Quote the full quantities, exact offered part numbers, VAT and delivery separately. Functional equivalents and an NVMe SSD of at least 256GB are acceptable. Lighting: two sets, each with a 5m 12V cool-white 24W strip and a regulated supply rated at least 3A (36W), centre-positive 5.5×2.1mm output and a suitable SA mains connection. PETG must be grey, 1.75mm and 1kg per spool. Supply blank 64GB A2 microSD cards; OS installation will be done by the requester. Jumper wires must be male to female, 20cm long, with at least 100 individual wires in total. Bold first options identify the preferred product references. Alternatives are for comparison only and do not increase the required quantities. Brands and manufacturer references identify the products; functional equivalents remain acceptable. Where no brand is specified, state the offered brand and model in the quotation. Confirm stock quantities and delivery dates in the quotation.			
1. Raspberry Pi 5 Model B 8GB **Required: 3 boards**			
PREFERRED PRODUCT REFERENCE **Brand: Raspberry Pi** **Model / part: Raspberry Pi 5 Model B, 8GB** **Manufacturer reference:** **https://www.raspberrypi.com/products/raspberry-pi-5/**	**3**		
2. Official Raspberry Pi 5 active cooler **Required: 3 coolers**			
PREFERRED PRODUCT REFERENCE **Brand: Raspberry Pi** **Model / part: Active Cooler; SC1148** **For Raspberry Pi 5.** **Manufacturer reference:** **https://www.raspberrypi.com/products/active-cooler/**	**3**		

Description	Qty	Unit Price (excl. VAT)	Total Price (excl. VAT)
3. Official Raspberry Pi 27W USB-C supply black EU **Required: 3 supplies**			
PREFERRED PRODUCT REFERENCE **Brand: Raspberry Pi** **Model / part: 27W USB-C Power Supply, black, EU plug** **5.1V, 5A USB-C output.** **Manufacturer reference:** **https://www.raspberrypi.com/products/27w-power-supply/**	**3**		
4. Blank 64GB A2 microSD card **Required: 3 cards; OS installation by requester**			
PREFERRED PRODUCT REFERENCE **Brand: SanDisk** **Model / part: Extreme PRO 64GB A2; SDSQXCU-064G-GS6MA** **Blank card; no OS preloading required.** **Manufacturer reference:** **https://www.sandisk.com/products/memory-cards/microsd-cards/sandisk-extreme-pro-microsd-uhs-i**	**3**		
ALTERNATIVE PRODUCT REFERENCE Brand: Raspberry Pi Model / part: A2 64GB microSD card Alternative product reference. Supply blank; no OS preloading required. Manufacturer reference: https://www.raspberrypi.com/products/sd-cards/	3		
5. SX1262 868MHz LoRa HAT with antenna **Required: 3 HATs**			
PREFERRED PRODUCT REFERENCE **Brand: Waveshare** **Model / part: SX1262 868M LoRa HAT; 16806** **868MHz version, with antenna.** **Manufacturer reference:** **https://www.waveshare.com/wiki/SX1262_868M_LoRa_HAT**	**3**		
6. Waveshare IMX179 8MP USB camera with microphone **Required: 2 cameras**			
PREFERRED PRODUCT REFERENCE **Brand: Waveshare** **Model / part: IMX179 8MP USB Camera (A); 14122** **8MP USB camera with embedded microphone.** **Manufacturer reference:** **https://www.waveshare.com/product/ai/cameras/imx179-8mp-usb-camera-a.htm**	**2**		
7. 12V cool white LED strip for scanner lighting **Required: 10 metres (two 5m reels)**			
PREFERRED PRODUCT REFERENCE **Brand: Not specified; bidder to state** **Model / part: 12V cool-white SMD3528 LED strip, 5m reel** **5m reel; 12V; 4.8W/m; 24W per reel; 60 LEDs/m; 6000–6500K; IP20. Use one reel per selected 12V 3A supply.**	**2**		

Description	Qty	Unit Price (excl. VAT)	Total Price (excl. VAT)
ALTERNATIVE PRODUCT REFERENCE Brand: Olite Model / part: OSL-6020-CW; 5m reel 12V cool-white strip. Quote wattage and a suitable matched supply.	2		
ALTERNATIVE PRODUCT REFERENCE Brand: Fivestar Model / part: FS-B001A; 5m COB reel 12V; 12W/m; 60W per reel. Quote a suitably rated matched supply separately.	2		
8. MOSFET lighting switch for Raspberry Pi 3.3V GPIO control **Required: 8 modules; supplier to confirm 3.3V control compatibility**			
PREFERRED PRODUCT REFERENCE **Brand: Not specified; bidder to state** **Model / part: XY-GMOS** **MOSFET lighting switch; offered module must support direct 3.3V GPIO control.**	**8**		
ALTERNATIVE PRODUCT REFERENCE Brand: Not specified; bidder to state Model / part: XY-MOS Alternative MOSFET lighting switch; offered module must support direct 3.3V GPIO control.	8		
ALTERNATIVE PRODUCT REFERENCE Brand: Not specified; bidder to state Model / part: DW-1442 Alternative MOSFET lighting switch; offered module must support direct 3.3V GPIO control.	8		
9. Regulated 12V DC lighting power supply at least 3A **Required: 2 supplies for 24W lighting loads**			
PREFERRED PRODUCT REFERENCE **Brand: Not specified; bidder to state** **Model / part: Regulated 12V 3A plug-in switch-mode supply 36W; 5.5×2.1mm centre-positive output and suitable SA mains connection. One 24W reel per supply.**	**2**		
ALTERNATIVE PRODUCT REFERENCE Brand: Not specified; bidder to state Model / part: PDA-60-12 12V 5A desktop adapter; 5.5×2.1mm P1J connector. Quote centre-positive output and suitable SA mains lead.	2		
ALTERNATIVE PRODUCT REFERENCE Brand: Olite Model / part: OL-5A 12V 5A. Quote 5.5×2.1mm centre-positive output and suitable SA mains connection.	2		

Description	Qty	Unit Price (excl. VAT)	Total Price (excl. VAT)
10. Female 5.5×2.1mm DC jack to screw terminal **Required: 4 adapters**			
PREFERRED PRODUCT REFERENCE **Brand: Not specified; bidder to state** **Model / part: Female DC barrel jack to screw terminal 5.5mm outer / 2.1mm inner barrel size.**	**4**		
11. Blue illuminated momentary push button **Required: 2 switches**			
PREFERRED PRODUCT REFERENCE **Brand: Not specified; bidder to state** **Model / part: AL6-M-5PIN-MOM-BLU** **Blue illuminated momentary push button; five-pin type.**	**2**		
ALTERNATIVE PRODUCT REFERENCE Brand: Not specified; bidder to state Model / part: 16mm blue LED ring momentary push button Alternative button; LED supply 12–24V.	2		
12. Official Raspberry Pi Touch Display 2 7 inch **Required: 2 displays**			
PREFERRED PRODUCT REFERENCE **Brand: Raspberry Pi** **Model / part: Touch Display 2, 7-inch 720×1280 touchscreen.** **Manufacturer reference: https://www.raspberrypi.com/products/touch-display-2/**	**2**		
13. OneNineDesign V2 enclosure for 7 inch Touch Display 2 black **Required: 2 enclosures**			
PREFERRED PRODUCT REFERENCE **Brand: OneNineDesign** **Model / part: V2 enclosure for Raspberry Pi Touch Display 2, 7-inch, black** **Manufacturer website: https://www.oneninedesign.co.uk/**	**2**		
14. Male to female DuPont jumper wires 20cm **Required: at least 100 individual wires**			
PREFERRED PRODUCT REFERENCE **Brand: Not specified; bidder to state** **Model / part: Male-to-female jumper wires; 20cm; 40-wire pack** **Three packs provide 120 individual wires.**	**3**		
ALTERNATIVE PRODUCT REFERENCE Brand: Not specified; bidder to state Model / part: Male-to-female jumper wires; 10cm; 20-wire pack Comparison only: 10cm wires do not meet the required 20cm length.	5		

Description	Qty	Unit Price (excl. VAT)	Total Price (excl. VAT)
ALTERNATIVE PRODUCT REFERENCE Brand: Not specified; bidder to state Model / part: Male-to-female jumper wires; 10cm; 40-wire pack Comparison only: 10cm wires do not meet the required 20cm length.	3		
15. Grey PETG 1.75mm filament 1kg spool **Required: 6 spools**			
PREFERRED PRODUCT REFERENCE **Brand: Anycubic** **Model / part: PETG solid filament, grey; AHPEGE-10** **1.75mm; 1kg spool. Manufacturer link covers the PETG product family.** **Manufacturer reference:** **https://store.anycubic.com/products/petg-filament**	**6**		
ALTERNATIVE PRODUCT REFERENCE Brand: Creality Model / part: CR-PETG, grey; 3301030039 1.75mm; 1kg spool. Manufacturer link covers the CR-PETG product family; supply grey. Manufacturer reference: https://mvip.creality.com/en/goods/goodsDetail/1786	6		
ALTERNATIVE PRODUCT REFERENCE Brand: SA Filament Model / part: PETG Speed, grey 1.75mm; 1kg spool. Manufacturer reference: https://www.safilament.co.za/petg-speed.html	6		
16. Official Raspberry Pi M.2 HAT+ standard **Required: 1 adapter**			
PREFERRED PRODUCT REFERENCE **Brand: Raspberry Pi** **Model / part: M.2 HAT+, standard** **For M.2 2230 or 2242 NVMe drives; include PCIe ribbon cable and mounting hardware.** **Manufacturer reference:** **https://www.raspberrypi.com/products/m2-hat-plus/**	**1**		
17. NVMe SSD 256GB to 1TB compatible with standard HAT+ **Required: 1 drive**			
PREFERRED PRODUCT REFERENCE **Brand: Transcend** **Model / part: MTE300S; TS256GMTE300S** **256GB; M.2 2230; NVMe PCIe Gen3 x4.** **Manufacturer reference: https://za.transcend-info.com/support/product/internal-ssd/mte300s**	**1**		

Description	Qty	Unit Price (excl. VAT)	Total Price (excl. VAT)	
ALTERNATIVE PRODUCT REFERENCE Brand: Transcend Model / part: MTE410S; TS256GMTE410S 256GB; M.2 2242; NVMe PCIe Gen4 x4; use with standard HAT+. Manufacturer reference: https://us.transcend-info.com/product/internal-ssd/mte410s	1			
			Estimated total excl. VAT	
			15% VAT	
			Estimated total incl. VAT	

NOTES TO SUPPLIER

- **Suppliers are required to respond with a quotation containing their company letterhead, where possible. Alternatively, they should include their pricing in this TOR.**
- **NMISA is a schedule 3A public entity according to PFMA and effects payments when all goods and services are delivered in full.**
- **Quotations should be firm and valid for at least a period of 30 days**
- **Quotations must clearly indicate delivery period**
- ***All Supplier quotations are subject to the provisions of the attached SBD forms***
- **For pricing above R2 000.00 - BBBEE certificate must be attached.**
- **Quotations should be sent to scm7@nmisa.org**
- ***The response should reach NMISA not later than 16 November 2026 @12h00***