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TO: ALL EXECUTIVE DIRECTORS
SECRETARY: NATIONAL ASSEMBLY
SECRETARY: NATIONAL COUNCIL
DEPUTY AUDITOR- GENERAL
DIRECTOR: ELECTIONS
DIRECTOR: ANTI-CORRUPTION COMMISSION
CHIEF REGIONAL OFFICERS

SUBJECT: APPROVED STANDARD SPECIFICATIONS FOR PCs, LAPTOPS, PRINTERS AND SCANNERS FOR THE PERIOD JANUARY - DECEMBER 2023

1. PURPOSE

1.1. The purpose of this approved standard specifications is to provide a description and statement of the requirements for the listed equipment and products, components of the specified equipment, the capability or performance of the equipment and product, and the work to be performed to develop a product or service.

1.2. The Office of the Prime Minister in accordance with its mandate as per the Revised Information Technology (IT) Policy for the Public 2017 (Cabinet Decision No: 18th /24.10.17/001) has approved these minimum standard specifications to be complied with by OMAs/RCs when purchasing computer equipment and related software.

1.3. The Procurement Act, (Act No. 15 of 2015), Procurement Board Regulations and Treasury Instructions should be therefore be adhered to.

2. SPECIAL TENDER CONDITIONS

2.1. All hardware and software tendered for should be delivered by the successful Tenderer accompanied by their respective original documentation, including manuals and software media.

2.2. Tenderers should indicate whether they are the manufacturers or accredited representatives in the Republic of Namibia for a manufacturer, or the direct importers (i.e. importing directly from the manufacturer) of items/models/brand-names tendered for. Tenderers who are not the manufacturers or accredited representatives of the manufacturers or direct importers should submit with their tender for each item/model/brand-name tendered for, a firm commitment from their supplier that they are the authorised distributor of that particular item/model/brand-name.

2.3. All specifications listed are to minimum requirements. Deviations from minimum specifications and additional components should be clearly stated, motivated, and explained in writing and should form part of the tender.

2.4. All delivered equipment and related software shall meet the minimum specifications. OMAs/RCs shall inspect all the delivered equipment and related software to ensure that they comply with tender specifications. All non- compliant equipment and related software shall not be accepted.

2.5. Disk drive specifications have to be met without any compression software.

2.6. All equipment should be covered by a full part and labour warranty for three years after installation and commissioning, if not stated otherwise in the specifications.

2.7. Tenderers shall include full technical specifications of the equipment offered, covering at least all features specified below. Statements claiming compliance with tender specifications, but not substantiated by manufacturer specifications, are not deemed sufficient for this purpose. The Procurement Board/ Procurement Unit reserves the right to disqualify any tender on the grounds of technical information not being provided with the tender before the closure of the tender.

2.8. All equipment and software offered shall constitute functional and operational units linked to the existing network. In particular, all required interfaces, cabling, and installation costs shall be included in the tender.

2.9. These conditions and specifications are in addition to and are to be read together with the Regulations of the Procurement Board and with instructions issued by the Board.

2.10. OMAs/RCs acquiring proprietary off the Shelf Software (e.g., Microsoft, Oracle, etc.) through Tender shall ensure that:

- 2.10.1. software is procured from a Certified Partner or authorised re-seller;
- 2.10.2. acquired software has a valid Product Code;
- 2.10.3. software is used in accordance with software license agreements; and
- 2.10.4. they keep an up-to-date register of the number of licenses acquired and installed.

I. BEN NATANGWE NASHANDI
EXECUTIVE DIRECTOR

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EXECUTIVE DIRECTOR

Date: 09. 01. 2023

3. MINIMUM SPECIFICATIONS

3.1 HARDWARE

3.1.1 Entry Level PCs

Entry Level PCs	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Operating system	Microsoft Windows 10 Professional (64 bit) or latest version				
Processor	10th Generation Intel Core i3 OR				
	AMD Ryzen 5				
Memory	4 GB DDR4 SDRAM upgradeable to 16GB				
Hard drive	256 GB SSD /512GB HDD				
Optical Drives	Slim DVD+/-RW DVD Combo				
Audio	Integrated High-Definition Audio				
I/O Ports	**Front:** 1 x headset connector; 2 x USB 3.0 **Rear:** 1 x audio-in; 1 x audio-out; 1 x serial; 1x RJ-45; 2 x USB 3.0 , 1 x VGA, 1x HDMI				
Display	20"				
Graphics	Integrated Graphics				
Input devices	USB Optical Scroll Mouse & Keyboard				
Speakers	Build-in or External				
Network Interface	Gigabit Ethernet				
Wireless	Wireless 802.11 ac				
Accessories	All necessary cables and accessories should be included				
Warranty	Three (3) Years				

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3.1.2 Middle Level PCs

Middle Level PCs	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Operating system	Microsoft Windows 10 Professional (64 bit) or latest version				
Processor	10th Generation Intel Core i5 OR				
	AMD Ryzen 7				
Memory	8 GB DDR4 SDRAM upgradeable to 32 GB				
Hard drive	256 GB SSD/ 512GB HDD				
Optical Drives	Slim DVD+/-RW DVD Combo				
Audio	Integrated High-Definition Audio				
I/O Ports	**Front:** 1 x headset connector; 2 x USB 3.0 **Rear:** 1 x audio-in; 1 x audio-out; 1 x serial; 1x RJ-45; 2x USB 3.0 , 1 x VGA, 1x HDMI				
Display	20"				
Graphics	Integrated Graphics				
Input devices	USB Optical Scroll Mouse & Keyboard				
Speakers	Build-in or External				
Network Interface	Gigabit Ethernet				
Wireless	Wireless 802.11 ac				
Accessories	All necessary cables and accessories should be included				
Warranty	Three (3) Years				

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3.1.3 High End PCs

High End PCs	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Operating system	Microsoft Windows 10 Professional (64 bit) or latest version				
Processor	10th Generation Intel® Core™ i7 OR				
	AMD Ryzen				
Memory	16 GB DDR4 SDRAM (2x8GB) RAM upgradeable to 32 GB				
Hard drive	512 GB SSD/512GB HDD				
Optical Drives	Slim DVD+/-RW DVD Combo				
I/O Ports	**Front:** 1 x headset connector; 2 x USB 3.0 **Rear:** 1 x audio-in; 1 x audio-out; 1 x serial; 1x RJ-45 ; 2x USB 3.0 , 1 x VGA, 1x HDMI				
Display	23"				
Graphics	NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated) or Equivalent				
Input devices	USB Keyboard and Optical Mouse				
Speakers	Built-in or External				
Network interface	Gigabit Ethernet				
Wireless	Wireless 802.11 ac				
Accessories	All necessary cables and accessories should be included				
Warranty	Three (3) years				

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3.1.4. Netbooks (14 inches)

Netbooks	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Operating system	Microsoft Windows 10 Professional (64 bit) or latest version				
Processor	11th Generation Intel Core i7 OR				
	AMD Ryzen 7				
Memory	16 GB, DDR4				
Hard drive	512 GB SSD/512GB HDD				
Audio	Integrated stereo speakers				
I/O Ports	3 x USB 3.0				
	1 x HDMI				
	1 x combo stereo headphone/mic jack				
	1 x RJ-45				
	1 x AC power				
Display	14.0"				
Camera	720P High-Definition Webcam or Equivalent				
Graphics	Ultra-High-Definition Graphics				
Input devices	Built-in Optical mouse, Keyboard and Touch Screen				
Wireless	802.11a/b/g/n WiFi and Bluetooth® 5				
Warranty	Three (3) year warranty				
Accessories	Protective Carry Bag and all necessary accessories should be included				
Input Devices	Wireless Mouse				

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3.1.5 Entry Level Laptops (15.6-Inches)

Entry Level Laptops	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Operating system	Microsoft Windows 10 Professional (64 bit) or latest version				
Processor	10th Generation Intel Core i5 OR				
	AMD Ryzen 5				
Memory	8 GB DDR4				
Hard drive	256 GB SSD /256GB HDD				
I/O Ports	3 x USB 3.0				
	1 x HDMI				
	1 x combo stereo headphone/mic jack				
	1 x RJ-45				
Display	15.6"				
Speakers	Integrated standard speakers				
Camera	720p High-Definition webcam				
Graphics	Integrated High-Definition Graphics				
Input devices	Touchpad mouse and Keyboard with Numeric Keypad				
Network interface	Gigabit Network Connection (10/100/1000 NIC)				
Wireless	802.11a/b/g/n WiFi				
Warranty	Three (3) years				
Accessories	Protective Carry Bag and all necessary accessories should be included				
Mouse	Wireless mouse				

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3.1.6 Middle Level Laptops (15.6-Inches)

Middle Level Laptops	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Operating system	Microsoft Windows 10 Professional (64 bit) or latest version				
Processor	10th Generation Intel Core i7 OR				
	AMD Ryzen 7				
Memory	8 GB DDR4				
Hard drive	512 GB SSD /512GB HDD				
I/O Ports	3 x USB 3.0				
	1 x HDMI				
	1 x combo stereo headphone/mic jack				
	1 x RJ-45				
Display	15.6"				
Speakers	Integrated standard speakers				
Camera	720p High-Definition webcam				
Graphics	Integrated High-Definition Graphics				
Input devices	Touchpad mouse and Keyboard with Numeric Keypad				
Network interface	Gigabit Network Connection (10/100/1000 NIC)				
Wireless	802.11a/b/g/n WiFi				
Warranty	Three (3) years				
Accessories	Protective Carry Bag and all necessary accessories should be included				
Mouse	Wireless mouse				

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3.1.7 High End Laptops (15.6-Inches)

High End Laptops	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Operating system	Microsoft Windows 10 Professional (64 bit) or latest version				
Processor	10th Generation Intel® Core™ i9 OR				
	AMD Ryzen 9				
Memory	16 GB DDR4				
Hard drive	512 GB SSD /512GB HDD				
Audio	Integrated Speakers				
I/O Ports	3 x USB 3.0				
	1 x HDMI				
	1 x headphone				
	1 x RJ-45				
	1 x combo stereo headphone/mic jack				
Graphics	Nvidia, Radeon or Equivalent Dedicated Graphics				
Graphics Memory	8 GB dedicated				
Camera	720p High-Definition webcam				
Display	15.6"				
Input devices	Keyboard with Numeric Keypad, Touchpad, Wireless Mouse				
Network interface	Integrated 10/100/1000Base-TX UTP				
Wireless	IEEE 802.11b/g/n Wireless				
Warranty	Three (3) years				
Accessories	Protective Carry Bag and all necessary accessories should be included				

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3.1.8 MacBook Pro (13 Inches) or (15 Inches)

MacBook Pro	FOR OMAs TO COMPLETE	FOR TENDERER TO COMPLETE		
	Quantity			
Feature	**Description**	**Yes**	**No**	**Deviation(if any)**
Operating system	macOS Sierra or latest version			
Processor	2.0GHz quad-core 10th-generation Intel Core i5, Turbo Boost up to 3.8GHz, with 6MB shared L3 cache			
Memory	8GB of 2133MHz LPDDR3 onboard memory, Configurable to 16GB of memory			
Storage	512 GB SSD/512GB HDD			
Flash Storage	128GB PCIe-based flash storage			
Display	13.3 or 15 -inch (diagonal) LED-backlit display with IPS technology;			
Charging and Expansion	Four Thunderbolt 3 (USB-C) ports with support for: Charging DisplayPort Thunderbolt (up to 40Gb/s) USB 3.1 Gen 2 (up to 10Gb/s)			
Audio	Stereo speakers, dual microphones			
Graphics	Intel Iris Plus Graphics			
Camera	720p FaceTime HD camera			
Wireless	**Wi-Fi** 802.11ac Wi-Fi wireless networking IEEE 802.11a/b/g/n compatible **Bluetooth** Bluetooth 5.0 wireless technology			
Warranty	Three (3) years			
Accessories	Protective Carry Bag and all necessary accessories should be included			

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3.1.9 iMac

iMac	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Operating system	MacOS High Sierra or latest version				
Processor	2.3GHz dual-core Intel Core i5, with 64MB of eDRAM				
Memory	32GB of 2666MHz DDR4 ECC memory Configurable to 64GB or 128GB				
Storage	1TB SSD, Configurable to 2TB or 4TB SSD				
Display	27-inch (diagonal) Retina 5K display 5120-by-2880 resolution				
Audio	Stereo speakers 3.5 mm headphone jack				
Graphics	Radeon Pro Vega 56 graphics processor with 8GB of HBM2 memory				
Input Devices	RJ-45 connector				
	Four Thunderbolt 3 (USB-C) ports				
	Four USB 3 ports				
	SDXC card slot with support for UHS-II				
	Keyboard with Numeric Keypad				
	Magic Mouse 2				
	Trackpad 2				
Wireless	802.11ac Wi-Fi wireless networking IEEE 802.11a/b/g/n compatible				
Warranty	Three (3) years				

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3.1.10 Projector (lamp light source) - (recommended for small venues)

Projectors	FOR OMAs TO COMPLETE	FOR TENDERER TO COMPLETE		
	Quantity			
Feature	**Description**	**Yes**	**No**	**Deviation(if any)**
Projection System	3LCD (or latest technology)			
Projection Method	Front/ Rear/ Ceiling Mount			
Color Light Output	3.600 lumen- 2.235 lumen (economy)			
White Light Output	3.600 lumen - 2.235 lumen (economy)			
Aspect Ratio	16:10			
Resolution	WXGA (1280 x 800) HD Ready			
Light source	Lamp			
Lamp Life	ECO mode: up to 10000 hours			
	Normal mode: up to 6000 hours			
Keystone Correction	Automatic Vertical: ± 30 degrees			
	Manual: Horizontal ± 30 degrees			
Contrast Ratio	15,000:1			
Speakers	In –build, 2-Watt speakers			
Input / Output ports	USB 2.0 Type B			
	1x HDMI in			
	1 x RGB in			
	1 x VGA in			
	Computer/ Component video: D-sub			
	Wireless LAN IEEE 802.11b/g/n (WiFi 4)			
	1 x Audio in			
	1 x Composite video: RCA			
	Ethernet interface (100 Base-TX / 10 Base-T)			
	1x MHL			
	1 x S-video			
Security	Kensington lock			
	Wireless LAN security			
	Password protection			
Accessories	Remote control and Pointer			
	All required cables (RGB, HDMI, MHL, USB, POWER, etc.)			
	Carry Bag			
Warranty	Three (3) Years			

3.1.11 Projector (laser light source)- (recommended for medium to large venues)

Projectors	FOR OMAs TO COMPLETE	FOR TENDERER TO COMPLETE		
	Quantity			
Feature	**Description**	**Yes**	**No**	**Deviation(if any)**
Projection System	3LCD (or latest technology)			
Projection Method	Front/ Rear/ Ceiling Mount			
Color Light Output	4.500 lumen- 3.150 lumen (economy)			
White Light Output	4.500 lumen - 3.150 lumen (economy)			
Aspect Ratio	16:10			
Resolution	WUXGA (1920x1200) Full HD			
Light source	Laser Light Source			
Light Source Durability	20.000 Hours Durability High			
	30.000 Hours Durability Eco			
Keystone Correction	Automatic Vertical: ± 30 degrees			
	Manual: Horizontal ± 30 degrees			
Contrast Ratio	2,500,000:1			
Speakers	In –build, 10-Watt speakers			
Input / Output ports	USB 2.0 Type B			
	2x HDMI in			
	1 x RGB in			
	Computer/ Component video: D-sub			
	Wireless LAN IEEE 802.11b/g/n (WiFi 4)			
	1 x Audio in			
	1 x Composite video: RCA			
	1 x MHL			
	1 x S-video			
	RS-232			
	2 x VGA in			
Security	Kensington lock			
	Wireless LAN security			
	Password protection			
Accessories	Remote control and Pointer			
	All required cables (RGB, HDMI, MHL, USB, POWER, etc.)			
	Carry Bag			
Warranty	Three (3) Years			

3.1.12 A4 Mobile Scanners

Mobile Scanners	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Scan resolution, optical	600 dpi				
Duty cycle (daily)	300 Pages				
Bit depth	48-bit				
Levels of grayscale	256				
Media types	Paper (plain, inkjet), envelopes, labels, checks, cards (business, plastic ID)				
Scan input modes	Front panel (Scan button), user applications via TWAIN				
Control panel	2 front-panel buttons (Cancel, Scan)				
Automatic document feeder capacity	Standard, 1 sheet (using manual feed slot)				
Automatic document feeder speed	5 ppm/8 ppm (b&w, colour, 300 dpi)				
Scanning options (ADF)	Single-pass duplex				
Scan size (ADF), minimum	52 x 74 mm				
Connectivity, standard	Hi-Speed USB 3.0				
Power	USB powered				
Warranty	Three (3) years				

3.1.13 A4 Sheetfed Scanner

A4 Scanners	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Optical Resolution	600 dpi x 600 dpi (Horizontal x Vertical)				
Document Feeder Type	Autoload				
Feeder Capacity	100 sheets				
Duplex	Single Pass Duplex Scanning				
Scanning Speed	Monochrome: 45 pages/min - Colour: 45 pages/min, resolution: 200 / 300 dpi,				
	Monochrome: 90 image/min - Colour: 90 image/min, resolution: 200 / 300 dpi				
Duty Cycle	5000 pages per day				
Supported Document Size	A4, A5, A6, B5, B6, Letter, Postcard, Business cards, Plastic cards, Legal, Executive				
ADF Minimum Document Size	50,8 mm x 50,8 mm (Horizontal x Vertical)				
ADF Maximum Document Size	215,9 mm x 6.096 mm (Horizontal x Vertical)				
Input Type	Color				
Grayscale / Color Depth	Input: 30 Bits Colour / 10 Bits Monochrome, Output: 24 Bits Colour / 8 Bits Monochrome				
Drivers	TWAIN, WIA, ISIS				
Interface Type	USB 3.0, Ethernet Interface (1000 Base-T/ 100-Base TX/ 10-Base-T).				
Panel Type	5-line LCD with Push Scan features				
Protocol Support	TCP/IP, DHCP, DNS, SNMP, SLP, HTTP				
Features	Skip blank page, A3 stitching, Punch holes removal, Automatic de-skew, Automatic multidocument recognition, Dual Image Output (Windows only), Auto-rotation, Text enhancement, Unsharp Mask (USM), Descreening, Automatic Folder Creation, Barcode Recognition, Full Zonal OCR				
Compatible operating system	Linux, Mac OS 10.7.x, Mac OS 10.8.x, Mac OS 10.9.x, Mac OS X, Mac OS X 10.6.8, Windows 10, Windows 7, Windows 7 x64,				

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	Windows 8, Windows 8 (32/64 bit), Windows 8.1, Windows 8.1 x64 Edition, Windows Server 2008 (32/64bit), Windows Server 2008 R2, Windows Server 2012 (64bit), Windows Server 2012 R2			
Accessories	USB Cable and all necessary accessories should be included			
Warranty	Three (3) years			

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3.1.14 A4 Flatbed Scanner

A4 Scanners	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Optical Resolution	Flatbed: 1200 x 2400 dpi, ADF: 600 x 600 dpi				
Document Feeder Type	Autoload				
Feeder Capacity	100 sheets				
Duplex	Single Pass Duplex Scanning				
Scanning Speed	Monochrome: 45 pages/min - Colour: 45 pages/min, resolution: 200 / 300 dpi, Monochrome: 40 pages/min - Colour: 40 pages/min , resolution: 200 / 300 dpi,				
	Monochrome: 80 image/min - Colour: 80 image/min, resolution: 200 / 300 dpi				
Duty Cycle	4000 pages per day				
Supported Document Size	A4, A5, Letter, A6, Legal, A7, A8, Postcard, Business cards, Plastic cards, C4 (Envelope), DL (Envelope)				
ADF Minimum Document Size	100 mm x 148 mm (Horizontal x Vertical)				
ADF Maximum Document Size	216 mm x 1.016 mm (Horizontal x Vertical)				
Input Type	Color				
Grayscale / Color Depth	Input: 48 Bits Colour / 16 Bits Monochrome, Output: 24 Bits Colour / 8 Bits Monochrome				
OCR	Software Included				
Drivers	TWAIN, WIA, ISIS				
Interface Type	USB 3.0, Ethernet Interface (1000 Base-T/ 100-Base TX/ 10-Base-T) (optional)				
Panel Type	5-line LCD with Push Scan features (with optional LAN Module)				
Protocol Support	TCP/IP, DHCP, DNS, SNMP, SLP, HTTP				
Features	Skip blank page, A3 stitching, Punch holes removal, Automatic de-skew, Automatic multidocument recognition, Dual Image Output (Windows only), Auto-rotation, Text enhancement, Skip blank page, Pre-defined scanning settings, Automatic area segmentation, Automatic				

	deskew, Automatic B/W colour detection, Dual Image Output (Windows only), Auto-rotation, Text enhancement, Edge enhancement, Unsharp Mask (USM), Descreening			
Compatible operating system	Linux, Mac OS 10.7.x, Mac OS 10.8.x, Mac OS 10.9.x, Mac OS X, Mac OS X 10.6.8, Windows 10, Windows 11, Windows server 2016/ 2019,			
Accessories	USB Cable and all necessary accessories should be included			
Warranty	Three (3) years			

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3.1.15 A3 Flatbed, Sheetfed Scanner

A3 Scanners	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Optical Resolution	600 dpi x 600 dpi (Horizontal x Vertical)				
Document Feeder Type	Autoload				
Feeder Capacity	100 sheets				
Duplex	Single Pass Duplex Scanning				
Scanning Speed	Monochrome: 70 pages/min - Colour: 70 pages/min measured with size: A4 , resolution: 200 / 300 dpi				
	Monochrome: 140 image/min - Colour: 140 image/min measured with size: A4, resolution: 200 / 300 dpi				
Duty Cycle	8000 pages per day				
Supported Document Size	A3, A4, A5, A6, B4, B5, B6, Letter, Legal, Executive				
ADF Minimum Document Size	68 mm x 120 mm (Horizontal x Vertical)				
ADF Maximum Document Size	297 mm x 2.540 mm (Horizontal x Vertical)				
Input Type	Color				
Grayscale / Color Depth	Input: 48 Bits Colour / 16 Bits Monochrome, Output: 24 Bits Colour / 8 Bits Monochrome				
OCR	Software Included				
Drivers	TWAIN, WIA, ISIS				
Interface Type	USB 3.0, Ethernet Interface (1000 Base-T/ 100-Base TX/ 10-Base-T) (optional)				
Panel Type	5-line LCD with Push Scan features (with optional LAN Module)				
Protocol Support	TCP/IP, DHCP, DNS, SNMP, SLP, HTTP				
Features	Skip blank page, Punch holes removal, pre-defined scanning settings, Automatic area segmentation, Automatic de-skew, Automatic multi-document recognition, Dual Image Output (Windows only), Auto-rotation, Text enhancement, Edge enhancement, Unsharp Mask (USM), Descreening, Book spine correction,				

	Automatic Folder Creation, Barcode Recognition, Zonal OCR A & B support, Manual / Automatic Job Separation			
Compatible operating system	Linux, Mac OS 10.7.x, Mac OS 10.8.x, Mac OS 10.9.x, Mac OS X, Mac OS X 10.6.8, Windows 10, Windows 7, Windows 7 x64, Windows 8, Windows 8 (32/64 bit), Windows 8.1, Windows 8.1 x64 Edition, Windows Server 2008 (32/64bit), Windows Server 2008 R2, Windows Server 2012 (64bit), Windows Server 2012 R2			
Accessories	USB Cable and all necessary accessories should be included			
Warranty	Three (3) years			

3.1.16 Office Mono Printers (Black & White)

LaserJet Printers (Black & White)	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Feature	**Description**		**Yes**	**No**	**Deviation(if any)**
Print speed, black	25ppm				
Print resolution,	1200 x 1200 dpi				
Recommended print Volume	250-2500 Pages Per month				
Expected engine Life	250 000 Pages				
Memory, standard	128 MB				
Processor speed	600 MHz				
Print languages, standard	PCL 5c; PCL 6; postscript level 3 emulation with automatic language switching,				
Paper tray(s), standard	2				
Paper handling standard, input	50-sheet multipurpose tray, 250-sheet input tray 2				
Paper handling standard, output	150-sheet output bin				
Duplex printing	Automatic				
Media sizes, standard	A4, Letter, legal, statement, executive, index cards, envelopes;				
Media Types	Paper (bond, light, heavy, plain, recycled, rough), envelopes, labels, cardstock, transparencies, heavy media				
Connectivity	Hi-Speed USB - compatible with USB 3.0 specification, Ethernet Interface (1000 Base-T/ 100-Base TX/ 10-Base-T), Near Field Communication (NFC)				
Compatible operating system	Windows Server 2016/2012; Windows 10,8,7 Professional x64; Mac OS				
Accessories	USB Cable and all necessary accessories should be included				
Warranty	Three (3) years				
OPTIONAL FEATURES					
Media Sizes	A3				

3.1.17 Colour Office Printers

Colour LaserJet Printers	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Features	**Description**		**Yes**	**No**	**Deviation(if any)**
Print speed,	24ppm mono/ 24 ppm colour				
Print resolution, color	1200 x 1200 DPi				
Print technology	Laser or Ink				
Recommended Print Volume	250-2500 Pages				
Expected Engine Life	250 000				
Print languages	PCL 6, PCL 5c, postscript level 3 emulation				
Processor speed	600 MHz				
Memory	128 MB				
Paper tray(s)	2				
Paper handling input	50-sheet multipurpose tray1, 250-sheet input tray 2				
Paper handling output	150-sheet output bin				
Duplex printing	Yes, automatic				
Media sizes	Letter: legal; statement; executive;3x5 in; 4x6 in; 5x7 in; 5x 8 in; 4x10 in; 4 x11 in; 4x12 in; 8x10 in;				
Media types	Paper, envelopes, labels, cardstock, transparencies, heavy media				
Document finishing	Sheet feed				
Connectivity	Hi-Speed USB - compatible with USB 3.0 specification, Ethernet Interface (1000 Base-T/ 100-Base TX/ 10-Base-T), Near Field Communication (NFC)				
Minimum system requirements	Microsoft® Windows® 10,8,7 (32-bit/64-bit), Mac OSX v 10.5, v 10.6 or higher;				
Accessories	USB Cable and all necessary accessories should be included				
Warranty	Three (3) years				
OPTIONAL FEATURES					
Media Sizes	A3				

3.1.18 Multifunction Color Printers

Multifunction Color Printers	FOR OMAs TO COMPLETE		FOR TENDERER TO COMPLETE		
	Quantity				
Features	**Description**		**Yes**	**No**	**Deviation(if any)**
Three-in-one functions	Print, copy, scan				
Print speed black	24ppm				
Print speed color	24ppm				
Print resolution, color	1200 x 1200 dpi				
Recommended Print Volume	250-2500 Pages				
Paper handling input	250-sheet input tray				
Paper handling output	50-sheet output tray				
Duplex printing	Automatic				
Document finishing	Sheet feed				
Media sizes	A3, A4, Letter, legal, statement, executive, index cards, envelopes				
Media types	Paper, envelopes, labels, cardstock, transparencies, heavy media				
Memory	128 MB				
Print languages	PCL 6, PCL 5c, postscript level 3 emulation				
Scanner type	ADF; Flatbed				
Scan resolution, optical	2400 dpi				
Bit depth	48-bit				
Automatic paper sensor	Yes				
Copy speed, black	24 cpm				
Copy speed, color	24 cpm				
Copy resolution, black	1200 optimized dpi from 600 input dpi				
Copy resolution, color	4800 x 1200 optimized dpi from 1200 input dpi on photo paper				
OPTIONAL FEATURES					
Fax transmission speed	3 sec per page				
Fax memory	100 pages				
Fax resolution, black	300 x 300 dpi				
Auto redial	yes				
Fax delayed sending	yes				
Polling	yes				

Fax forwarding	yes			
Faxing	Yes, color			
Connectivity	Hi-Speed USB - compatible with USB 3.0 specification, Ethernet Interface (1000 Base-T/ 100-Base TX/ 10-Base-T), Near Field Communication (NFC)			
Display	LCD (2-line text)			
Accessories	USB Cable and all necessary accessories should be included			
Warranty	Three (3) years			

3.1.19 Heavy Duty Cabinet Line Matrix Printer (for IFMS printing purposes)

Heavy Duty Line Matrix Printers	FOR OMAs TO COMPLETE	FOR TENDERER TO COMPLETE		
	Quantity			
Features	**Description**	**Yes**	**No**	**Deviation(if any)**
Standard	Integrated print management			
Printer Type	Line Impact Dot Matrix Method			
Print Speed	2000 Lines per minutes			
Graphics Resolution	Max. 180(H) x 144(V) dpi			
Character Pitch	Near Letter Quality: 10.0 cpi, 12.0 cpi, 13.3 cpi, 15.0 cpi, 16.7 cpi, 17.1 cpi, 20 cpi Draft: 10.0 cpi, 12.0 cpi, 13.3 cpi, 15.0 cpi, 16.7 cpi, 17.1 cpi, 20.0 cpi			
Dot Size	16.7 mil (.42mm)			
Emulations Standard	PRINTRONIX LP+ emulation, P-Series Emulation, P-Series XQ Emulation, Serial Matrix Emulation, IBM ProPrinter emulation, Epson FX Emulation, IPDS Emulation, PRINTRONIX IGP/PGL emulation, PRINTRONIX IGP/VGL emulation			
Character Sets	47 languages and 43-character sets			
Character Styles	Bold, italic, superscript, subscript, underline, overline, strike-through			
Fonts	Draft, Data Processing, Courier, Gothic, OCR A and B			
Barcodes	Code 39, Code 128, Interleaved 2 of 5, UPC-A, UPC-E, EAN 8, EAN 13, EAN 128, Codabar, MSI, PDF-417, Postnet, Intelligent Mail Barcode (IMB)			
Printer compatibility	Win 10, 8,7 Server 2016, 2012, Linux, Unix, AIX, SAP			
Paper Path/Handling	Tractor Feed			
Paper Type	Continuous, fan folded, edge-perforation			
Print Width	136 Characters			
Media Width	3" (76mm) to 17" (432mm)			
Media Copies	Up to 6 parts			
Media Weight	Continuous paper: 56 - 163 gsm			
Connectivity	Hi-Speed USB - compatible with USB 3.0 specification, Ethernet Interface (1000 Base-T/ 100-Base TX/ 10-Base-T), Near Field Communication (NFC)			
Accessories	USB Cable and all necessary accessories should be included			
Warranty	Three (3) Years			

I-Ben Natangwe Nashandi
EXECUTIVE DIRECTOR

Date: 09.01.2023