

AN ATTACHMENT OF DETAILED SPECIFICATIONS FOR COMPUTER SUPPLIES FOR MULAGO NATIONAL REFERRAL HOSPITAL FY 2022/2023

SN	Item	Qty	Detailed Specifications
1	Desktop Computer Sets	60	<ul style="list-style-type: none"> • Intel® Core™ i5-12500 Processor (2.1 GHz, up to 4.9 GHz w/Boost, 25 MB cache, 12 core, 65W) + Intel® UHD Graphics 650 12th Generation Intel Core i5-12500 (6 Cores/18MB/12T/3.0GHz to 4.6GHz/65W) (ZR) 1 • 8GB (1x8GB) DDR4 Non-ECC Memory • 3.5 inch 1TB 7200 rpm SATA Hard Disk Drive • 8x DVD+/-RW 9.5mm Slimline Optical Disk Drive • Intel UHD 630 • Gigabit Ethernet • Windows 11 Pro O.S • 1Years Warranty • Power Button • Optical Disk(Optional) • Optional Port: VGA/DP 1.4/HDMI 2.0b/USB Type-C/SD card Reader • Universal Audio Jack • USB 3.2 Gen1 Type-A (2) • HDMI Port • USB 2.0 with Smart Power On • ThumbScrew • FH PCIe Expansion 16 • Optional Port: Serial/PS2 • Optional VGA /HDMI Video Port • Power Connection • Display Port • RJ-45 • Screen: 20" inches • Inbuilt /Knock out slots for wireless Antennas

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2	UPSs	60	<ul style="list-style-type: none"> • Output power 410 Watts / 750VA • Output Frequency:50/60 Hz +/- 1 Hz Sync to mains • Topology: Line Interactive • Output power capacity 750VA • Auto-restart • LED indicators Surge protection • Audible alarm(s) • Output frequency 50/60 Hz • Output operation voltage (min) 220 V • AC outlets quantity 8 AC outlet(s) • Form factor Mini Tower • LED indicators Yes • Display LCD • Certification CE, CSA, GOST, UL 1778, VDE • Output frequency 50/60 Hz • Cables included USB cable • Package 328x595x376x19.6 mm • Package weight 5.4 kg
3	Desk Printers (print, scan & copy)	10	<ul style="list-style-type: none"> • Prints only in black and white

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		<ul style="list-style-type: none"> • Print/Scan/Copy/Fax • Up to 38ppm Mono Print • Up to 4,800 x 600 dpi Print • Automatic Double Sided Printing • USB & Network • As Fast as 6.3 Seconds First page • 100 Sheet Input Tray • 250 Sheet Input Tray • 1200MHz Processor • 512MB RAM • Windows Compatible • Up to 33.6Kbps Fax • 6.9cm Colour Touch Screen 																																		
4	Copier - Heavy Duty	<table border="1"> <tr> <td data-bbox="595 715 1200 762">General features</td> <td data-bbox="1200 715 2141 762"></td> </tr> <tr> <td data-bbox="595 762 1200 802">Machine Type</td> <td data-bbox="1200 762 2141 802">LaserJet multifunctional equipment</td> </tr> <tr> <td data-bbox="595 802 1200 842">Capability</td> <td data-bbox="1200 802 2141 842">Print Copy and Scan</td> </tr> <tr> <td data-bbox="595 842 1200 882">Print Technology:</td> <td data-bbox="1200 842 2141 882">Laser</td> </tr> <tr> <td data-bbox="595 882 1200 922">Engine speed</td> <td data-bbox="1200 882 2141 922">Up to 55 ppm (pages per minute) A4</td> </tr> <tr> <td data-bbox="595 922 1200 962">Resolution</td> <td data-bbox="1200 922 2141 962">1200 x 2400 dpi</td> </tr> <tr> <td data-bbox="595 962 1200 1002">Warmuo time from off</td> <td data-bbox="1200 962 2141 1002">As fast as 8.5 seconds</td> </tr> <tr> <td data-bbox="595 1002 1200 1042">Time to first page</td> <td data-bbox="1200 1002 2141 1042">3.7 seconds or less</td> </tr> <tr> <td data-bbox="595 1042 1200 1082">CPU Processor</td> <td data-bbox="1200 1042 2141 1082">INTEL ATOM Quad Core, 1.8GHz</td> </tr> <tr> <td data-bbox="595 1082 1200 1121">Minimum Memory</td> <td data-bbox="1200 1082 2141 1121">4 GB RAM + 128 GB SSD +500GB HDD</td> </tr> <tr> <td data-bbox="595 1121 1200 1161">Standard interfaces</td> <td data-bbox="1200 1121 2141 1161">10/100/1000Base-T Ethernet, High-Speed USB 2.0 direct print, NFC</td> </tr> <tr> <td data-bbox="595 1161 1200 1201">Power source:</td> <td data-bbox="1200 1161 2141 1201">Ac 220 V ~ 240 V, 50/60 hz</td> </tr> <tr> <td data-bbox="595 1201 1200 1241">Power consumption (Watt)</td> <td data-bbox="1200 1201 2141 1241">Default</td> </tr> <tr> <td data-bbox="595 1241 1200 1281">Printing</td> <td data-bbox="1200 1241 2141 1281">760 W</td> </tr> <tr> <td data-bbox="595 1281 1200 1321">Stand-by</td> <td data-bbox="1200 1281 2141 1321">70.3 Watts Max</td> </tr> <tr> <td data-bbox="595 1321 1200 1361">Sleep</td> <td data-bbox="1200 1321 2141 1361">1 Watts max</td> </tr> <tr> <td data-bbox="595 1361 1200 1481">Paper Handling</td> <td data-bbox="1200 1361 2141 1481"></td> </tr> </table>	General features		Machine Type	LaserJet multifunctional equipment	Capability	Print Copy and Scan	Print Technology:	Laser	Engine speed	Up to 55 ppm (pages per minute) A4	Resolution	1200 x 2400 dpi	Warmuo time from off	As fast as 8.5 seconds	Time to first page	3.7 seconds or less	CPU Processor	INTEL ATOM Quad Core, 1.8GHz	Minimum Memory	4 GB RAM + 128 GB SSD +500GB HDD	Standard interfaces	10/100/1000Base-T Ethernet, High-Speed USB 2.0 direct print, NFC	Power source:	Ac 220 V ~ 240 V, 50/60 hz	Power consumption (Watt)	Default	Printing	760 W	Stand-by	70.3 Watts Max	Sleep	1 Watts max	Paper Handling	
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		Input capacity	Not less than 130-sheet multi-purpose tray, plus 2 x 520-sheet universal paper cassette.
		Software applications	
		Mobile printing	The proposed machines must be supplied along with mobile printing software for cloud and Wi-Fi
		Duplex	Standard
		Output capacity	520 sheets face-down MAX capacity 6,000 sheets A4 with optional tray
		Print Functions	Default
		PCL6	Yes
		PostScript 3	Yes
		Encrypted PDF Direct Printing	Yes
		PDF1.7 (encryption 128bit AES), Transparency	Yes
		PDF Direct Print	Yes
		XPS Direct Print	Yes
		Emulations:	PCL 6 (PCL 5c / PCL -XL), XPS Direct Print, PDF Direct Print
		Operating Systems:	All current Windows operating systems, Mac OS X Version 10.4 or higher, UNI X LINU X, as well as other operating systems on request.
		Print features	PDF Direct Print, IPP printing, email printing, secure printing via SSL, Ipsec, quick copy, proof and hold, Private Print, job storage and job management functionality.
		Copy Functions	
		Max. original size:	A3
		Continuous copying:	1-9999
		Zoom range:	25-400% in 1% steps
		Preset magnification ratios:	5 Reduction and 5 Enlargements

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			Digital features:	Scan-once-copy-many, electronic sort, 2in1 and 4in1 function, image repeat copy, page numbering, cover mode, booklet copy, interrupt copy, form overlay
			Image adjustments:	Text + photo, text, photo, map
			Scan Functions	Default
			Scan speed	Scan-to-email, Scan-to-FTP, Scan-to-SMB, Scan-to-USB host, Scan-to-box, network TWAIN, WSD scan
			Max. scan size:	Not less than A3
			Maximum Original recognition:	A3
			Network protocol:	Text, photo, text + photo, OCR
			Scan: Colour / Mono	Colour
			Scan-to E-mail	Yes
			Scan-to FTP	Yes
			Scan-to SMB	Yes
			Scan-to USB	Yes
			Scan to Document Box	Yes
			Network TWAIN	Yes
			WSD Scan	Yes
			Scan speed	Not less than 82 ppm B&W & 141 ipm Color (A4 ipm, 300dpi)
			PDF 1.4	Yes
			PDF encrypted	Yes
			PDF high compression	Yes
			PDF/A	Yes
			JPEG	Yes
			TIFF	Yes
			XPS	Yes
			Other Required Software	

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			Monitoring Software	The vendor must include in the bid all accounting software monitors, network printers allowing for printer condition
			Accounting Software applications	Include software to monitor the equipment toner level,density and network administration. Option should be available
			Consumables	Minimum
			Toner kit	Black
			Toner cartridge Capacity	Not less than 52,000 pages
			Starter toners	Machine has to come full yield toner
			Interfaces	
			Standard Interface	USB 2.0 (Hi-Speed), USB Host 2.0, Fast Ethernet 10 BaseT/100 BaseTX/1000 BaseT, slot for optional print server, slot for optional SD-card, slot for optional Fax System
			Standard Features	802.1x, IPsec, HTTPS, SFTP, and Encrypted Email, McAfee® Embedded Control Whitelisting, McAfee® ePolicy Orchestrator®, McAfee Enterprise Security Manager, Automatic Self-signed Certificate,
			Certifications	Default
			Manufacturer's Authorisation	The vendor must attach proof manufacturer's Authorisation for the equipment offered
			Minimum Warranty for the proposed machines	Standard 1 year
			Support and Service	
			Previous experience	The vendor must attach proof to have supplied similar equipment or bigger (in form of LPOs/customer references and completion certificates)
			Workshop facility	Attach proof of existence of workshop facilities to offer after sales services for the proposed equipment. The vendor MUST attach a list of 2 technical people with their signed CVs and experience of not less than 5 years.

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5	<i>ICT Maintenance toolkit</i>	1	<ul style="list-style-type: none"> • Networking Crimper/Plier with 8 & 6 pin Stripper - 2 pcs • Original Wire tracker Emitter and Original Wire tracker Receiver size; 50x125 mm & 40x180 mm • Original Cable Tester RJ 45+ 11 NF 468 set with off,on & s button options(master & remote pcs) size; 100x60 mm & 100x30 mm • Wire cutter stripper – 4 pcs • Dust Blower Makita • Headsets – 2 pcs • Bluetooth - wireless - USB-A via Bluetooth adapter • Compatible with Windows, iPhone, Android phone, Mac Weight ≤150 g • Max Operating Distance 30 m • Earpad Material Leatherette • Capacity 360 mAh • Punch down tool for cable RJ 45 • RJ45 Connector Modules and boots paired *1000 pcs • RJ 45 Network line • RJ45 Adaptor • Networking plier • Cable ties*200 pcs • Cable ties * 1000 pcs
6	<i>48 port switch</i>	1	<ul style="list-style-type: none"> •Ports. 48 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T with atleast 2 SFP Ports •Buttons. Reset button. •Cabling type. Unshielded twisted pair (UTP) Category 5 or better for 10BASE-T/100BASE-TX; UTP Category 5. •LEDs. ...

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			<ul style="list-style-type: none"> ●Switching capacity of atleast 96 Gbps Forwarding capacity 	
7	<i>WIFI access points</i>	4	<ul style="list-style-type: none"> ● Wireless Router (White, Dual Band) ● Wireless Without Modem type ● Speed that is ≥ 1000 Mbps ● Frequency: 2.4 GHz, 5 GHz ● Internal Antenna 	

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