

Section II: Schedule of Requirements

eSourcing reference: RFQ/2022/40485

Technical specifications for Goods and Comparative Data Table:

LOT 1 : Laptops					
Item #	Description		Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
1.1	Processor	Minimum Intel i7 11 th Generation or better	5	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Memory	32 GB DDR4 RAM			
	Graphics	GeForce RTX™3050 Ti laptop GPU with 4GB GDDR6 GPU memory			
	Installed Storage	Minimum 1TB SSD			
	Form factor	Convertible or Clamshell			
	I/O, Ports and Connectivity	At least 2 x USB 3.0 At least 2 USB Type-C Wi-Fi: IEEE 802.11 a/b/g/n/ac Minimum Bluetooth 5.1			
	Installed Operating System	Windows 11 Pro 64-Bit (or Windows 10, upgradable to 11)			
	Keyboard	Preferably Arabic			
	Display	Minimum 14.4-inch monitor			
	Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). Mouse (mired or wireless) 3-pin square power plugs			
1.2	Processor	Minimum Intel i7 Generation or better	25	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Memory	16 GB DDR4 RAM			
	Installed Storage	Minimum 1TB SSD			
	Form factor	Laptop (Clamshell)			
	I/O, Ports and Connectivity	Integrated 1Gbps Ethernet At least 2 x USB 3.0 At least 1 USB Type-C Wi-Fi: IEEE 802.11 a/b/g/n/ac Minimum Bluetooth 4			
	Installed Operating System	Windows 11 Pro 64-Bit (or Windows 10, upgradable to 11)			
	Keyboard	Preferably Arabic			

	Display	Minimum 15-inch monitor			
	Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). Mouse (mired or wireless) 3-pin square power plugs			

LOT 2 : Desktops					
Item #	Description		Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
2.1	Processor	Minimum Intel i9 10 th Generation or better	15	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Memory	64 GB DDR4 RAM			
	Installed Storage	Minimum 3TB SSD			
	Form factor	All-In-One			
	I/O, Ports and Connectivity	Integrated 1Gbps Ethernet At least 2 x USB 3.0 At least 1 USB Type-C At least 1 HDMI Port Wi-Fi: IEEE 802.11 a/b/g/n/ac Minimum Bluetooth 4			
	Installed Operating System	Windows 11 Pro 64-Bit (or Windows 10, upgradable to 11)			
	Keyboard	Arabic			
	Display	Minimum 21-inch monitor (supports 1920 x 1080 resolution or better). FHD IPS display technology or better			
	Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). Mouse (mired or wireless) 3-pin square power plugs			
2.2	Processor	Minimum Intel i9 10 th Generation or better	3	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Memory	64 GB DDR4 RAM			
	Installed Storage	Minimum 3TB SSD			
	Form factor	CPU and Monitor			
	I/O, Ports and Connectivity	Integrated 1Gbps Ethernet At least 2 x USB 3.0 At least 1 USB Type-C At least 1 HDMI Port Wi-Fi: IEEE 802.11 a/b/g/n/ac Minimum Bluetooth 4			

	Installed Operating System Keyboard Display Accessories	Windows 11 Pro 64-Bit (or Windows 10, upgradable to 11) Arabic Minimum 21-inch monitor (supports 1920 x 1080 resolution or better). FHD IPS display technology or better To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). Mouse (mired or wireless) 3-pin square power plugs			
2.3	Processor Memory Installed Storage Form factor I/O, Ports and Connectivity Installed Operating System Keyboard Display Accessories	Minimum Intel i7 Generation or better 32 GB DDR4 RAM Minimum 2TB SSD CPU and Monitor Integrated 1Gbps Ethernet At least 2 x USB 3.0 At least 1 USB Type-C At least 1 HDMI Port Wi-Fi: IEEE 802.11 a/b/g/n/ac Minimum Bluetooth 4 Windows 11 Pro 64-Bit (or Windows 10, upgradable to 11) Arabic Minimum 21-inch monitor (supports 1920 x 1080 resolution or better). FHD IPS display technology or better To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). Mouse (mired or wireless) 3-pin square power plugs	35	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
2.4	Processor Memory Installed Storage Form factor I/O, Ports and Connectivity	Minimum Intel i7 Generation or better 16 GB DDR4 RAM Minimum 1TB SSD CPU and Monitor Integrated 1Gbps Ethernet At least 2 x USB 3.0 At least 1 USB Type-C At least 1 HDMI Port Wi-Fi: IEEE 802.11 a/b/g/n/ac Minimum Bluetooth 4	505	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable

	Installed Operating System	Windows 11 Pro 64-Bit (or Windows 10, upgradable to 11)			
	Keyboard	Arabic			
	Display	Minimum 21-inch monitor (supports 1920 x 1080 resolution or better). FHD IPS display technology or better			
	Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). Mouse (mired or wireless) 3-pin square power plugs			
2.5	Processor	Intel i3-6100U @ 2.3 GHz equivalent or better	300	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Memory	8 GB DDR4 RAM			
	Installed Storage	Minimum 250GB SSD			
	Form factor	Either Separate CPU box and monitor or a combined 2-in-1 desktop			
	I/O, Ports and Connectivity	Integrated 1Gbps Ethernet At least 2 x USB 3.0 At least 1 USB Type-C At least 1 HDMI Port Wi-Fi: IEEE 802.11 a/b/g/n/ac Minimum Bluetooth 4			
	Installed Operating System	Windows 11 Pro 64-Bit (or Windows 10, upgradable to 11)			
	Keyboard	Arabic			
	Display	Minimum 21-inch monitor (supports 1920 x 1080 resolution or better). FHD IPS display technology or better			
	Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). Mouse (mired or wireless) 3-pin square power plugs			

LOT 3 : Monitors					
Item #	Description		Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
3.1	Processor	Minimum Intel i7 Generation or better	10	☐ Yes ☐ No	Insert details of goods offered, including specifications
	Memory	32 GB DDR4 RAM			
	Installed Storage	Minimum 2TB SSD			

	Form factor	Curved			and brand/model offered if applicable
	I/O, Ports and Connectivity	At least 1 HDMI Port At Least 1 VGA Port At Least 1 Display Port			
	Display	Minimum 34-inch monitor (supports 1920 x 1080 resolution or better). FHD IPS display technology or better			
	Other	Able to pivot, tilt, swivel and adjust the height of the screen			
	Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). 3-pin square power plugs			
3.2	Panel Size	Minimum 65 inch	3	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Resolution	4K UHD - 3840(H) × 2160 (V)			
	Minimum Refresh Rate	60 Hz			
	Android Processor	Version 8.0, Cortex A73 x2, A53 x2, Mali G51MP2, 64G EMMC5.1, 3GB DDR4			
	I/O, Ports and Connectivity	Inputs: 3x HDMI (2.0), 1x VGA, 1x VGA Audio, 1x Microphone (3.5mm), 1x DP, 2x Touch USB, 1x TF/SD Card Outputs: 1x HDMI, 1x Headphone (3.5mm) Connectivity: 1x RS232, 2x RJ45, 2x USB (Front), 3x USB (Rear), 1x WiFi (2.4Ghz +5Ghz)			
	Touch	20x Touch points, Touch accuracy 2mm, Annotation over any source, Response time 2.5ms, Palm Detection, Pen and touch differentiation, Compatibility (Windows/Mac/Linux/Android/Chrome)			
	Cameras	Web Camera (1080p Full HD & Ultra-Wide FOV, Built-in Microphone, USB 2.0, WDR) Camera (1080p full HD, USB Interface, 72.5° Wide-angle Lens & 12x Optical Zoom, Remote Control)			
	Speakers	2 x 15W Built-in Left/Right Speakers with surround sound and automatic volume control			
	Power Supply	AC 100-240V, 60/50 HZ			
	Services supported	Interactive Whiteboard, Screen Share & Stream, Annotation, Video Conferencing			

	Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). 3-pin square power plugs Wall Mounting (VESA standard) or movable stand			
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LOT 4 : Plotters - Printers				
Item #	Description	Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
4.1	- Print, copy, scan, digital send, USB access - Duplex copying - Automatic document feeder - Laser based technology - Print speed: up to 30ppm - Color printing - Print Quality: up to 600 X 600 dpi - Connectivity: USB 2.0, Gigabit Ethernet 10/100/1000T network - Display: minimum 8" color display - Scanner type: Flatbed, ADF - Scan file format :PDF, JPEG, TIFF, MTIFF, XPS, PDF/A - Scan resolution, optical :Up to 600 dpi - Scan size, maximum :297 x 420 mm - Scan size (ADF), maximum :297 x 420 mm - Scan speed (normal, A4): Up to 30 ppm (b&w), up to 30 ppm (color) - Duplex ADF scanning: Yes, reversing ADF - Automatic document feeder capacity; Standard, 100 sheets - Digital sending standard features: Scan to e-mail; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to LAN Fax; Send to Internet Fax; Local Address Book; SMTP over SSL - Digital Send: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A - Scan to easy access USB: PDF, JPEG, TIFF, MTIFF, XPS, PDF/A - Print from easy access USB: PDF, PS, Print Ready files (.prn, .pcl, .cht) - Scan input modes : Copy, scan to e-mail, scan to network folder, scan to USB, save to device memory	2	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable

	- Copy speed (normal):Black: Up to 30 cpm; Color: Up to 30 cpm - Copy resolution (black text): 600 x 600 dpi - Copy resolution (color text and graphics) : 600 x 600 dpi - Copy reduce / enlarge settings: 25 to 400%				
4.2	Plotter		2	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Resolution (color)	Up to 2400 x 1200 optimized dpi			
	Print Technology	Thermal Inkjet			
	Print Speed	25 sec/page on D, 82 D prints per hour			
	Print Cartridges	4 (C, M, Y, K)			
	Connectivity	Gigabit Ethernet (1000Base-T), Hi-Speed USB 2.0, Wi-Fi 802.11a/b/g/n, Wi-Fi Direct			
	Supported media sizes	Auto sheet feeder: A4, A3; manual feed: A4, A3, A2, A1, A0			
	Memory	Minimum 1GB			
	Finished output handling	Sheet feed, roll feed, automatic sheet feeder, media bin, automatic horizontal cutter			
	Media Types supported	Bond and coated paper (bond, coated, heavyweight coated, plain, bright white, blueprint), technical paper (natural tracing), film (clear, matte), photographic paper (satin, gloss, semigloss, polypropylene), self-adhesive (adhesive, polypropylene)			
	Compatible ink types	Dye-based (C, M, Y); pigment-based (K)			
	Media Sizes	11 to 36 in			
Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). 3-pin square power plugs				

LOT 5 : Servers - Switches					
Item #	Description		Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
5.1	Switch		40	☐ Yes ☐ No	Insert details of goods offered, including specifications and
	Flash Memory	128 MB for LAN Base and IP Lite SKUs, 64 MB for LAN Lite SKUs			

	DRAM	512 MB for LAN Base and 256 MB for LAN Lite			brand/model offered if applicable
	CPU	APM86392 600 MHz dual core			
	Console Ports	USB (Type B), Ethernet (RJ-45)			
	Storage Interface	USB (Type A) for external flash storage			
	Network Management Interface	10/100 Mbps Ethernet (RJ-45)			
	Connectors and Interfaces	Supports: - SFP and SFP+ interfaces 10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 unshielded twisted pair (UTP) cabling 100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling 1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling			
	Power Input	Two power input slots			
	Accessories	Media, Connectors, Power Codes, Rails for Rack mounting Included			
	Brand	Cisco Switch Layer 3, 48 ports or equivalent			
5.2	Server:		3	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Processor	1 X 2nd Generation Intel Xeon Platinum 8253 processor; 16 Cores, 22MB Cache			
	Memory	64 GB DDR4 RAM			
	Storage controllers	Internal controller: PERC H740p External PERC (RAID): H840			
	Drive Bays	6 x 2.5" SAS/SATA (HDD/SSD) drive bays			
	Installed Storage	5 x 1.2TB disk drives installed. (6 TB total space)			
	Form factor	Rack (1U)			
	I/O, Ports and Connectivity	4 x 1GbE Network Port 1 x Dedicated iDRAC network port 1 x Serial Port At least 2 x USB 3.0			

		Fiber ports for SAN connectivity Supports iSCSI			
	Supported operating systems	Canonical Ubuntu LTS Citrix Hypervisor Microsoft Windows Server LTSC with Hyper-V Oracle Linux Cent OS Red Hat Linux			
	Installed Operating System	Windows Server 2019 or above			
	Power Input	Two power input slots			
	Accessories	Media, Connectors, Power Codes, Rails for Rack mounting Included			

LOT 6 : NAS Storage					
Item #	Description		Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
6.1	Processor	Minimum 2.1 GHz Intel Atom C3538 Quad-Core or better	5	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
	Memory	Minimum 4GB DDR4 RAM			
	Drive Bays	12 x 3.5"/2.5" SATA HDD/SSD Drive Bay			
	Installed Storage	4 x 6TB SSD (24 TB total)			
	RAID	Supports RAID 0, 1, 5, 6, 10, Basic, Hybrid, JBOD			
	I/O, Ports and Connectivity	4 x Gigabit Ethernet Ports 2 x USB 3.2 Generation 1 1 x Expansion Port			
	Accessories	To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any). 3-pin square power plugs			

LOT 7 : Barcode scanners				
Item #	Description	Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
7.1	- Able to scan 1D, 2D bar codes (e.g., QR Code) on paper, mobile phones and computer displays - Omni-directional scan pattern (eliminates the need to align bar code and scanner)	500	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable

	• Must be able to scan at least Universal Product Code (UPC), Code39, EAN, Data Matrix, QR Code, and PDF417 • Must be mounted to allow for hands-free barcode scanning of barcodes on documents or receipts up to a size of A4. • To include the necessary accessories, cables, Driver & SDK CD, Connectors (if any).			
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LOT 8 : SQL Licences				
Item #	Description	Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
8.1	SQL Server 2019 Licenses On premise SQL Server Enterprise Core 2019 Single Open License. Perpetual License	20	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
8.2	SQL Server 2019 Client Access Licenses (CAL) On premise access to SQL Server Enterprise 2019 databases. Perpetual License	50	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable
8.3	SQLite Expert License Perpetual License Professional Edition	2	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable

LOT 9 : Office 365 and Power BI Licences				
Item #	Description	Qty	Is quotation compliant? Bidder to complete	Details of goods offered. Bidder to complete
9.1	Office 365 E3 License 1 year subscription	50	☐ Yes ☐ No	Insert details of goods offered, including

				specifications and brand/model offered if applicable
9.2	Power BI Pro License 1 year Subscription	20	☐ Yes ☐ No	Insert details of goods offered, including specifications and brand/model offered if applicable

Delivery requirements and Comparative Data Table:

UNOPS Requirements		Is quotation compliant? Bidder to complete	Details Bidder to complete
Delivery time	Bidder shall deliver the goods 12 weeks after Contract signature.	☐ Yes ☐ No	Insert details
Delivery place and Incoterms rules	DAP 2020 Iraq – Baghdad – IHEC -Green Zone beside (General Secretariat for the Council of Ministers)	☐ Yes ☐ No	Insert details
Consignee details	Iraq – Baghdad – IHEC -Green Zone beside (General Secretariat for the Council of Ministers)	☐ Yes ☐ No	Insert details
UNOPS Right to vary requirements	At the time the Contract is awarded, UNOPS reserves the right to vary the quantity of the goods and associated services specified above, provided this does not exceed +/- 20% , without any change in the unit prices or other terms and conditions of the RFQ.	☐ Yes ☐ No	Insert details

After Sales requirements -- Comparative Data Table

UNOPS Requirements		Is quotation compliant? Bidder to complete	Details Bidder to complete
Local after sales service agent	The supplied goods have a local service agents in Baghdad for provision of spare parts, maintenance and any additional after sales services.	☐ Yes ☐ No	Insert local service agent contact details