Technical Specifications

Procurement of Various ICT Equipment - MITHI 2021

ICT Equipment – Lot 1

3,212,085.93			
37 units	Laptop Specification Requirements: Operating System: Windows 10 Display Screen Size: 14 inches or larger Screen Type: IPS Resolution: 1920 x 1080 Processor: Ryzen 7 3700U or higher Memory: 8 GB DDR4 or higher Graphics: Vega 10 or higher Battery: 56 Wh (Rating Capacity) WIRELESS Wi-Fi: IEEE 802.11a/b/g/n/ac, 2.4 GHz and 5 GHz, 2 x 2 MIMO Bluetooth 5.0, compatible with Bluetooth 4.2, Bluetooth 2.1+EDR Camera: 1 MP (720p HD) AUDIO Speaker Power: 2 W each x 2 Number Of Microphone: 2 Ports USB-A 3.0 x 1 USB-C x 1 HDMI x 1 3.5mm headset and mic 2-in-1 jack x 1 Storage: 512 GB PCIe SSD 1 x Laptop Backpack Bag and Wireless Mouse	1,850,000.00	

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2 units	High-end Laptop Specification Requirements: 1 unit (Windows OS)		300,000.00
	Operating System: Windo	ws 10 Home	
		H Processor 2.60 GHz 12M	
	Cache, up to 5.00 GHz		
	Graphics: GeForce GTX 1	1660 Ti 6GB GDDR6 VRAM	
	Memory: 16GB DDR4 up	to 3200MHz SDRAM	
	Support up to 48GB		
	Storage: 1TB SSD		
	Display: 15.6-inch Full HD	A second of the	
	Programme or constitution of the constitution	sRGB, Pantone® Validated	
	VR Ready: YesBrushed Black: Per-key R	CD lighting	
	I/O Ports: 1 x Thunderbolt		
	Type-C, DisplayPort? 1.4		
	• 1 x USB 3.2 Gen 2 Type-/	***	
	• 2 x USB 3.2 Gen 1 Type-/		
	• 1 x HDMI 2.0b	•	
	 1 x 3.5mm Audio jack (ES 	S Hi-Fi DAC)	
	 1 x Audio jack mic-in 		
	 1 x Kensington lock 		
	 1 x RJ-45 jack 		
	 1 x Laptop Backpack Bag 	and Wireless Mouse	
	Color: Black or Grey only		
	1 unit (Mac OS)		
	2.0GHz quad-core 10th-gets	eneration Intel Core i5	
	processor		
	 Turbo Boost up to 3.8GHz 	:	
	 Intel Iris Plus Graphics 		
	 16GB 3733MHz LPDDR43 	X memory	
	 512GB SSD storage 		
	 13-inch Retina display with 	n True Tone	
	Magic Keyboard		
	Touch Bar and Touch ID		
	Four Thunderbolt 3 ports		
	 1x Earpods with 3.5mm H 	eadphone plug	

1x USB-C to USB Adapter

1x USB-C Digital AV Multiport Adapter

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1 unit	Live Streaming Laptop Specification Requirements: Processor: Ryzen 7 4800H (8C / 16T, 2.9 / 4.2GHz, 4MB L2 / 8MB L3) or higher Graphics: GTX 1650 4GB GDDR6 or higher Memory: 1x 8GB SO-DIMM DDR4-3200 or higher Storage: 512GB SSD M.2 2280 PCIe NVMe or higher Display: 15.6" FHD (1920x1080) WVA 250nits Antiglare, 120Hz, 45% NTSC Ethernet: 100/1000M WLAN + Bluetooth: 11ax, 2x2 + BT5.0 Microphone: 2x, Array Operating System: Windows 10 Home 64, English 1 x Laptop Backpack Bag and Wireless Mouse	80,000.00
1 unit	Mid-Ranged Laptop Specification Requirements: Processor: Core i5 9300H Operating System: Windows 10 Memory: 8 GB, up to 16 GB SDRAM Display: 15.6" (16:9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC Graphic: GTX1650 with 4GB GDDR5 VRAM Storage Solid state drive: 512GB PCle Gen3 x2 SSD Dual HDD support Card Reader: Multi-format card reader WebCam: HDWebcam Networking Wi-Fi Integrated Wi-Fi 5 (802.11 ac) Bluetooth 5.0 Interface 1 x COMBO audio jack 1 x Type-C USB 3.0 (USB 3.1 Gen 1) 1 x USB 3.0 port(s) Type A 2 x USB 2.0 port(s) 1 x HDMI Battery: 3 -Cell 42 Wh Polymer Battery Output: 20 V DC, 7.5 A, 150 W Input: 100 -240 V AC, 50/60 Hz universal Weight: 1.8 kg or less 1 x Laptop Backpack Bag and Wireless Mouse	60,000.00

2 units	Network Attached Storage Specification Requirements: CPU Architecture: 64 bit CPU Frequency: Quad Core 1.5 (base) / 2.3 (burst) GHz or higher System Memory: 8GB or higher 1x4TB Storage Capacity 3.5 inches Optimized for NAS enclosure with Agile Array Multi-user technology for increased user workload SATA 6GB/s interface 5900rpm spin speed	150,000.00
1 unit	HD Web Camera for Video Conference Specification Requirements: • 4K Ultra HD video calling (up to 4096 x 2160 pixels @ 30 fps) • 1080p Full HD video calling (up to 1920 x 1080 pixels @ 30 or 60 fps) • 720p HD video calling (up to 1280 x 720 pixels @ 30, 60, or 90 fps) • Plug-and-play USB connectivity • Field of View: • Diagonal: 90° • Horizontal: 82.1° • Vertical: 52.2° • 5x digital zoom in Full HD • Autofocus • Rightlight™ 3 with HDR for clear image in various lighting environments ranging from low light to direct sunlight. • Image controls with optional Camera Settings application for control of pan, tilt, and zoom • Built-in dual omni-directional mics with noise cancellation • Infrared sensor technology for Windows (SDK available for application integration) • External privacy shutter • Multiple mounting options, including clip and tripod mount • Supports multiple connection types, including USB 2.0 Type A and USB 3.0 Type A and C connections	15,000.00

1 unit	Biometrics (Finger Scanner) with bundled software Specification Requirements: Users 250,000 Face 10,000 (1;1)/2,000 (1;N) Fingerprint 250,000 (1:1)/25,000 (1:N) Log Capacity 10,000,000 Image Logs 20,000 Android OS Familiar UI such as Smart Phone Apps Operation Mode: Face, Fingerprint, Card & PIN Communications: TCP/IP, RS-485,RS232, Wiegand In & Out. LCD Display: 5.0" touchpad LCD (480*800) Camera: Tilt Dual Camera (Color & IR) FRR /FAR: 0.1% / 0.0001% Power: 12-24VDC. Dimension: 149.5 x 208.5 x 46 Fake finger detection (Patented)	70,000.00
1 unit	Full HD 1080p Document Camera Specification Requirements: Pixels: 2MP (1920 x 1080 pixels) Camera Sensor: 1/2.7 inch CMOS Sensor Resolution: Up to Full HD (1080p) Zoom: 10x Digital Zoom, 12x Optical Zoom Weight: Approx 3.0kg	35,000.00
3 units	Laptop Specification Requirements: Processor: Core i7-9750H Processor 2.6GHz (12M Cache, up to 4.50 GHz) Memory: 16GB DDR4 Keyboard: RGB Keys Storage: 512GB NVME SSD Graphics: 6GB RTX 2060 GDDR6 Display: 15.6-in IPS FHD / 144 Operating System: Windows 10 1 x Laptop Backpack Bag and Wireless Mouse	349,400.01
3 units	Smart-UPS C Battery Backup & Surge Protector with SmartConnect Specification Requirements: Output: 600W / 1000 VA, Input: 220V @ 50/60 Hz ±3 Hz, 6 x NEMA 5-15R Battery Backup Outlets, 1 x NEMA 5- 15P Input Connection	69,685.92

3 **Network Printer** 60,000.00 Specification Requirements: units Printer Type: Print, Scan, Copy Print Method: PrecisionCore Printhead Minimum Ink Droplet Volume: 3.3 pl Printer Language: ESC / P-R Control Panel: 2.4 " Colour LCD Print Direction: Bi-directional printing, Uni-directional printing Nozzle Configuration: 400 nozzles Black, 128 nozzles per colour (Cyan, Magenta, Yellow) Maximum Resolution: 4800 x 1200 dpi (with Variable-Sized Droplet Technology) Automatic 2-sided printing: Yes (up to A4) Print Speed: Photo Default - 10 x 15 cm / 4 x 6 "*2 #3: Approx. 69 sec per photo (Border) *1 Approx. 92 sec per photo (Borderless) *1 Draft, A4 (Black / Colour): Up to 33 ppm / 20 ppm *1 ISO 24734, A4 Simplex (Black / Colour): Up to 15 ipm / 8.0 ipm *1 ISO 24734, A4 Duplex (Black / Colour): Up to 6.5 ipm / 4.5 ipm *1 Copy Function: Copy Resolution:600 x 1200 dpi Max Copies:99 copies Reduction / Enlargement:25 - 400%, Auto Fit Function Maximum Copy Size:A4, Letter Copy Speed: ISO 29183, A4, Simplex (Black / Colour):Up to 11 ipm / 5.5 ipm Copy Quality:Normal / Best quality Scan Function: Scanner Type:Flatbed colour image scanner Sensor Type:CIS Optical Resolution:1200 x 2400 dpi Maximum Scan Area:216 x 297 mm (8.5 x 11.7 ")

- Scanner Bit Depth (Colour):48-bit input, 24-bit output
- Scanner Bit Depth (Grayscale):16-bit input, 8-bit output
- Scanner Bit Depth (Black & White):16-bit input, 1-bit output

Scan Speed:

	 Flatbed (Black / Colour):200dpi: 12 sec / 27 sec Paper Handling: Number of Paper Trays: 1 (Paper Cassette) Standard Paper Input Capacity: Up to 150 sheets, A4 Plain Paper (80 g/m2) Up to 20 sheets, Premium Glossy Photo Paper Output Capacity: Up to 30 sheets, A4 Plain Paper Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24 ") Paper Feed Method: Friction feed Paper Size: Legal, 8.5 x 13 ", Letter, A4, 195 x 270 mm, B5, A5, A6, 100 x 148 mm, B6, 5 x 7 ", 4 x 6 ", Envelopes #10, DL, C6 Print Margin: 0 mm top, left, right, bottom via, custom settings in printer driver (except plain paper) *4 	
41 units	UPS for Workstations Specification Requirements: • At least 650VA • 180V - 270V Input Voltage • 2-4 Universal Sockets	123,000.00
2 units	Printer Specification Requirements: - All-in-One Inkjet Printer - Print, Scan, Copy, Fax, - Max Print Resolution: 4800 x 1200 dpi, Max Print Size: 8.5 x 47.2", - Print Speed: 20 ppm	50,000.00

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