

## SPECIFICAȚII TEHNICE

Numărul licitației: MTender ID MD-1724070427309						19.08.2024
Denumirea licitației: Tehnică de calcul						
Codul CPV	Denumirea bunurilor și/sau a serviciilor	Modelul articolului	Țara de origine	Producătorul	Specificarea tehnică deplină solicitată	Specificarea tehnică deplină propusă de către ofertant
						Standarde de referință

## LOTUL #1

1 COMPUTER DE BIROU							
3020000-1	Computer de birou	CTO configuration	CZ	HP	<p>Computer Form Factor Compact</p> <p>Bloc de sistem: Form Factor: SFF;</p> <p>CPU (min): Cores: min 4, Threads: min 8, base frequency: min 3.4GHz, max frequency - up to 4.7 Ghz, L2+L3 Cache - min 12 MB;</p> <p>Graphics (min): integrated or discrete, dual display support up to UHD/4k (3840x2160@60hz) resolutions;</p> <p>RAM (min.): 16 GB installed, min DDR5-4800; RAM slots (min.): 2 x DDR5-4800</p> <p>Storage (min.): M.2 512GB NVMe SSD;</p> <p>Ports and Connectors (min.): Front – 1 x headphone/microphone combo jack, 2 x USB Type-A 3.2, 1 x USB Type-C 3.2; Rear –1 x DisplayPort 1.2, 1 x HDMI 1.4 (with up to 4k resolution), 2 x USB Type-A 3.2, 2 x USB Type-A 2.0;</p> <p>Internal ports (min): 1 x slot SATA 2.0; 1 x slot PCIe x16; 1 x slot PCIe x1, 2x slot M.2;</p> <p>Power Efficiency: ENERGY STAR certified or equivalent;</p> <p>Networking: 10/100/1000BASE-T Ethernet (RJ-45), Wi-Fi 6 &amp; Bluetooth 5.3;</p> <p>Security: Power On Authentication, Chassis intrusion detection, discrete TPM 2.0;</p> <p>Keyboard (min): USB wired or wireless (2.4GHz or Bluetooth), 108 keys, number pad; multimedia and volume control keys; thin profile, spill-resistant design, comfortable and quiet typing, up to 8 millions clicks buttons life cycle; adjustable tilt legs; compatible with operating systems: Windows, Linux, En-Ru keys engraved;</p> <p>Mouse(min): USB wired or wireless (2.4GHz or Bluetooth), High-Definition, Movement Resolution 1000 dpi, required to work on most surfaces including carpet/wood/glass;</p> <p>Garanție: minim 3 ani HW (cu opțiune „no HDD return”) confirmată cu un document oficial de la producator, SW support, SW upgrade included.</p> <p>23.8 inch FHD Display</p> <p>Caracteristici (min.): 23.8 inch, Panel Type: IPS, 1920 x 1080 @ 75Hz, Response time – max 8ms, Brightness 250 nits, Low blue light; Anti-glare; Adjustable stand(min.): height-100 mm, tilt -5° to 10°, swivel -20° to 20°, Pivot;</p> <p>Interface (min.): DP1.2, HDMI 1.4, 4x downstream USB 3.2, 1x upstream USB 3.2;</p> <p>Power Efficiency: ENERGY STAR certified or equivalent;</p> <p>Accessories: Cablu DisplayPort – DisplayPort, min 1.8m; Cablu USB – USB, min 1.8m; UE power cable.</p> <p>Garanție (min.): confirmată cu un document oficial de la producător, 36 luni.</p>	<p><b>HP Pro SFF 400 G9 Desktop PC // 8Y4T6AV</b></p> <p>Form Factor: SFF</p> <p>Processor: Intel Core i3-14100 (3.5 GHz P-core base frequency, up to 4.7 GHz P-core Max Turbo frequency, 12 MB L3 cache, 4 P-cores, 8 threads)</p> <p>Graphics: UHD Graphics 730 (Max Resolution DP 7680x4320@60Hz; Max Resolution HDMI 4096 x 2160 @ 60Hz4x Displays Supported)</p> <p>Memory: 16GB (1x 16GB) DDR5-4800, Max 64 GB, 2x U-DIMM slots</p> <p>Storage: 512GB M.2 2280 PCIe NVMe SSD</p> <p>Interfaces: 2x Type-A Hi-Speed USB 480Mbps signaling rate port (rear); 3x Type-A SuperSpeed USB 5Gbps signaling rate port (rear); 3x Type-A SuperSpeed USB 10Gbps signaling rate port (front); Type-C SuperSpeed USB 10Gbps signaling rate port (front); DP; HDMI; Combo Audio Jack with CTIA &amp; OMTP and headset support (front); Audio-Line-in/Line out (rear); RJ45; Flexible Port Expansion I/O: M.2 PCIe x1 2230; M.2 PCIe x4 2280; 2x SATA; PCIe v4.0 x1; PCIe v4.0 x16</p> <p>Power Supply: 240W active PFC / 80 PLUS Platinum; 93% efficient; Energy Star &amp; TCO certified</p> <p>Connectivity: Intel I219-LM 1 Gigabit Network Connection LOM; Realtek Wi-Fi 6E 802.11ax 2x2 with Bluetooth 5.3 wireless card</p> <p>Security: Intrusion Sensor; TPM 2.0 endpoint security controller, FIPS 140-2 Level 2 Certified; USB enable/disable, Power-on/Setup password (via BIOS); Removable media write/boot control</p> <p>Keyboard: HP Wired Desktop 320K Keyboard (Localizaton Eng/Rus; Spill-resistant; LED indicator for alerts of locked keys; Low profile, quiet keys; Multimedia Keys; Adjustable slope; Switch life 10M)</p> <p>Mouse: HP 635 Multi-Device Wireless Mouse (2.4GHz wireless receiver and Bluetooth; Connects with up to 3 devices; min. 12 months of battery life; Track-On-Glass Sensor works on any surface; AES 128 bits encryption; up to 3000dpi, customizable in HPAC software; 7x buttons)</p> <p>Warranty: U11COE - HP 3 year Next Business Day Onsite w/Defective Media Retention Desktop HW Supp; Warranty check of HP equipment: <a href="https://support.hp.com/us-en/check-warranty">https://support.hp.com/us-en/check-warranty</a></p> <p><b>HP E24 G5 FHD Monitor</b></p> <p>Display Size 23.8"; Panel Technology IPS; Native Resolution 1920x1080@75Hz; Response Time 5ms GtG; Brightness 250 nits; HP Eye Ease (TÜV Low Blue Light Hardware Solution certified); Anti Glare Screen Treatment; Tilt -5~+23°; Swivel ±45°; Pivot ±90°; Height Adjust Range 0-150mm; DisplayPort1.2; HDMI 1.4; 4x SuperSpeed USB Type-A 5Gbps signaling rate (1x charging); USB-B; ENERGY STAR, EPEAT Cold, TCO Certified; AC power cord (1.83m); HDMI 1.4 cable (1.8m); USB 3.0 B-A cable (1.8m); DP 1.2 cable (1.8m)</p> <p>Warranty: Standard 3Years NBD On-site; Warranty check of HP equipment: <a href="https://support.hp.com/us-en/check-warranty">https://support.hp.com/us-en/check-warranty</a></p> <p>Notă: Echipamentul este nou și va fi produs după ce comanda a fost plasată Centrul de service HP autorizat - FORS Computer (certIFICATE atașate)</p>	<p>ENERGY STAR certified;</p> <p>EPEAT Gold;</p> <p>TCO 8.0 Certified;</p> <p>GS Mark; Eyesafe Certification;</p> <p>RoHS, WEEE, Eye Ease TÜV Certified</p>

**LOTUL #2**

1 LAPTOP 15-16"							
3020000-1	Laptop 15-16"	CTO configuration	CH	HP	Tip: Laptop	HP ProBook 450 G10 Notebook PC // 974X6AV	ENERGY STAR certified; EPEAT Gold; TCO 8.0 Certified; GS Mark; Eyesafe Certification; RoHS, WEEE, Eye Ease TÜV Certified
					Display 15,6-16 inch (min): IPS, 1920x1080, 60Hz, narrow bezel, 250 nit;	Display: 15.6" IPS UWVA eDP anti-glare, narrow bezel bent, 250 nits, 1920x1080@60Hz	
					CPU (min.): Cores: min 6, Threads: min 12, max frequency - up to 4.6 Ghz, L2+L3 Cache - min 12 MB;	Processor: Intel Core i5-1334U (3.4 GHz P-core base frequency, up to 4.6 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores, 8 E-cores, 12 threads)	
					RAM (min.): 8 GB DDR4-3200 (2x slots);	Memory: 8GB (1x 8GB) DDR4-3200, Max 32 GB, 2x SODIMM slots	
					Storage (min.): 512 GB NVMe SSD;	Storage: 512GB M.2 2280 PCIe NVMe SSD	
					Ports and Connectors (min.): 1x Type C, 2xUSB Type A, headphone/microphone combo jack, HDMI(1.4), RJ-45(sau adapter USB-RJ45 inclus);	Interfaces: 2x SuperSpeed USB Type-C 10Gbps signaling rate (USB Power Delivery, DP1.4); 2x SuperSpeed USB Type-A 5Gbps signaling rate (1x charging, 1x powered port); HDMI 2.1; RJ-45; Headphone/microphone combo jack; AC power	
					Camera (min.): FHD;	Camera: 5MP IR with Temporal Noise Reduction Camera	
					Audio (min.): Integrated Multi-Array Microphone, Integrated Stereo Speakers;	Audio: 2x Integrated stereo speakers (2x 2W); Integrated microphone (Dual Array)	
					Wireless Communications (min.): Wi-Fi 6 (2x2), Bluetooth 5.3;	Connectivity: Intel Garfield Peak 2 AX211 Wi-Fi 6E+ BT5.3 CNVi WLAN; Realtek RTL8111HSH 10/100/1000 Integrated NIC	
					Input devices: keyboard, backlight, numeric keypad, English-Russian keys (engraved), clickpad with multi-touch gesture support;	Input Devices: HP Premium Keyboard (Eng/Rus), full-size, spill resistant with numeric keypad and backlit; Clickpad with multi-touch gesture support	
					Security: Fingerprint sensor, Security lock slot, Trusted Platform Module 2.0, Pre-boot Authentication, USB enable/disable (BIOS), Setup password (BIOS);	Security: TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified, FIPS 140-2 Level 2 Certified); HP Fingerprint Sensor; USB enable/disable, Power-on/Setup password (via BIOS); Removable media write/boot control	
					Battery (min.): 41 Wh, fast charge;	Battery: HP Long Life 3-cell, 42 Wh Polymer (Fast charge supported)	
					AC adapter (min.): Smart 45 Watt AC adapter (type C or other connector type);	Power Supply: HP Smart 45 W External AC power adapter	
					Power Efficiency: ENERGY STAR certified or equivalent;	Certification: Energy Star; EPEAT Gold, TCO, Low Blue Light; RoHS	
Greutate (max.): 1.7 kg;	Weight: Starting at 1.7 kg						
Dimensiuni: înălțime (max.) 22mm;	Dimensions (WxDxH): 35.94x23.39x1.99 cm						
Perioada de garanție: 3 ani HW and SW support (cu opțiune „no HDD return”) confirmată cu un document oficial de la producător, SW upgrade included.	Warranty: UL680E - HP 3 year Pickup and Return w/Defective Media Retention Notebook HW Supp; Warranty check of HP equipment: <a href="https://support.hp.com/us-en/check-warranty">https://support.hp.com/us-en/check-warranty</a>						
	Notă: Echipamentul este nou și va fi produs după ce comanda a fost plasată Centrul de service HP autorizat - FORS Computer (certIFICATE atașate)						

**LOTUL #3**

1 LAPTOP 13-14"							
3020000-1	Laptop 13-14"	CTO configuration	CH	HP	Tip: Laptop	HP ProBook 440 G10 Notebook PC // 974X6AV	ENERGY STAR certified; EPEAT Gold; TCO 8.0 Certified; GS Mark; Eyesafe Certification; RoHS, WEEE, Eye Ease TÜV Certified
					Display 14 inch (max): 1920x1080, 60Hz narrow bezel, 250 nit;	Display: 14" IPS UWVA eDP anti-glare, narrow bezel bent, 250 nits, 1920x1080@60Hz	
					CPU (min.): Cores: min 6, Threads: min 12, max frequency - up to 4.6 Ghz, L2+L3 Cache - min 12 MB;	Processor: Intel Core i5-1334U (3.4 GHz P-core base frequency, up to 4.6 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores, 8 E-cores, 12 threads)	
					RAM (min.): 16 GB DDR4-3200 (2x slots);	Memory: 16GB (1x 16GB) DDR4-3200, Max 32 GB, 2x SODIMM slots	
					Storage (min.): 512 GB NVMe SSD;	Storage: 512GB M.2 2280 PCIe NVMe SSD	
					Ports and Connectors (min.): 1x Type C, 2xUSB Type A, headphone/microphone combo jack, HDMI(1.4), RJ-45 (sau adapter USB-RJ45);	Interfaces: 2x SuperSpeed USB Type-C 10Gbps signaling rate (USB Power Delivery, DP1.4); 2x SuperSpeed USB Type-A 5Gbps signaling rate (1x charging, 1x powered port); HDMI 2.1; RJ-45; Headphone/microphone combo jack; AC power	
					Camera (min.): FHD;	Camera: 5MP IR with Temporal Noise Reduction Camera	
					Audio (min.): Integrated Multi-Array Microphone, Integrated Stereo Speakers;	Audio: 2x Integrated stereo speakers (2x 2W); Integrated microphone (Dual Array)	
					Wireless Communications (min.): Wi-Fi 6 (2x2), Bluetooth 5.3;	Connectivity: Intel Garfield Peak 2 AX211 Wi-Fi 6E+ BT5.3 CNVi WLAN; Realtek RTL8111HSH 10/100/1000 Integrated NIC	
					Input devices: keyboard, backlight, numeric keypad, English-Russian keys (engraved), clickpad with multi-touch gesture support;	Input Devices: HP Premium Keyboard (Eng/Rus), full-size, spill resistant with numeric keypad and backlit; Clickpad with multi-touch gesture support	
					Security: Fingerprint sensor, Security lock slot, Trusted Platform Module 2.0, Pre-boot Authentication, USB enable/disable (BIOS), Setup password (BIOS);	Security: TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified, FIPS 140-2 Level 2 Certified); HP Fingerprint Sensor; USB enable/disable, Power-on/Setup password (via BIOS); Removable media write/boot control	
					Battery (min.): 41 Wh, fast charge;	Battery: HP Long Life 3-cell, 42 Wh Polymer (Fast charge supported)	
					AC adapter (min.): Smart 45 Watt AC adapter;	Power Supply: HP Smart 45 W External AC power adapter	

				Power Efficiency: ENERGY STAR certified or equivalent;	Certification: Energy Star; EPEAT Gold, TCO, Low Blue Light; RoHS	
				Greutate (max.): 1.6 kg;	Weight: Starting at 1.4 kg	
				Dimensiuni: Înălțime (max.) 19.5mm;	Dimensions (WxDxH): 32.19x21.39x1.99 cm	
				Perioada de garanție: 3 ani HW warranty and SW support (cu opțiune „no HDD return”) confirmată cu un document oficial de la producător, SW upgrade included.	Warranty: UL657E - HP 3 year Next Business Day Response Onsite w/Defective Media Retention NB HW Supp; Warranty check of HP equipment: <a href="https://support.hp.com/us-en/check-warranty">https://support.hp.com/us-en/check-warranty</a>	
					Notă: Echipamentul este nou și va fi produs după ce comanda a fost plasată Centrul de service HP autorizat - FORS Computer (certIFICATE atașate)	

**LOTUL #4**

1 DISPOZITIV MULTIFUNCȚIONAL LASER MONOCROM							
3020000-1	Dispozitiv multifuncțional laser monocrom	ZZ627A	CH	HP	Dispozitiv multifuncțional laser monocrom Tip - imprimare, copiere, scanare	HP LaserJet Pro 4103dw Functions: Print, copy, scan	ENERGY STAR certified; EPEAT Gold; TCO 8.0 Certified; GS Mark; RoHS, WEEE
					Viteza de imprimare A4 automatic min. 40 ppm.	Print speed (A4, normal): Up to 40 ppm	
					Viteza de imprimare A5-peisaj o singura fata min. 60 ppm.	Print speed (A5, normal): no data, by default the std. characteristic for Canon printers	
					Timp de imprimare a primei pagini max. 6.5 sec.	First page out (A4): as fast as 6.3 sec	
					Rezoluție de imprimare min. 600 x 600 dpi	Print resolution: Fine Lines (1200x1200 dpi)	
					Viteza de copiere A4 fata-verso automatic min. 33 ppm.	Copy speed (A4): up to 40 cpm	
					Timp de ieșire a primei copii prin ADF sau scanner platan nu mai mult de 7.5 sec.	First copy out (A4): as fast as 6.3 sec	
					Copiere multiplă 999 de exemplare cu Reducere/mărire 25-400%;	Maximum number of copies: Up to 9999 copies; Reduce/Enlarge: 25 to 400%	
					Scanner platan și alimentator automat față-verso cu o singură trecere;	Scanner type: Flatbed, ADF; Single-pass 2-sided scanning ADF	
					Rezoluție de scanare optică min. la 600 x 600 dpi, scanare monocrom și color;	Optical scan resolution: up to 1200x1200 dpi monocrome and color	
					Scanare către e-mail - TIFF/JPEG/PDF/PDF cu funcție de căutare;	Scan file format: PDF, Searchable PDF, JPG, TIFF	
					Tavă universală pentru 100 de coli, casetă pentru 250 de coli, posibilitatea de adăugare caseta aditională: ADF min. 50 de coli si tavă de iesire hârtie min. 150 de coli.	Media handling: 100-sheet input tray 1, 250-sheet input tray 2; 50-sheet Automatic Document Feeder (ADF); Optional third 550-sheet tray; 150-sheet output bin	
					Formate de hârtie acceptate de imprimare: A4, A5, A5 (Landscape), B5, Legal.	Media size: A4; A5; A5-R; A6; B5 (JIS); Letter; Legal	
					Imprimare cu economisire toner, imprimare securizată, Imprimare de pe unități de memorie USB.	Printer smart software features: Auto duplex and booklet printing, N-up printing, collation, watermarks, install printer driver only, Economode for toner savings, accepts a variety of paper sizes and types; Direct print via Walk-up USB	
					Interfață: USB 2,0, 1000Base-T, Wireless 802,11 b/n/g, conexiune Wireless Direct;	Interfaces: Hi-Speed USB 2.0; rear host USB; Front USB port; Gigabit Ethernet 10/100/1000BASE-T network; 802.3az(EEE); 802.11b/g/n/2.4/5 GHZ Wi-Fi radio + BLE	
					Ciclu de lucru min. 80000 de pagini pe lună.	Monthly duty cycle: 80,000 pages A4; Recommended monthly page volume: 750 to 4,000	
					Min. 512MB memorie, Panou de control tactil, color.	Memory: 512MB	
					Cablu USB în set.	Accessories: USB Cable	
					Cartuș inițial original min. 2500 copii, adăugător cartuș sau set de cartușe de rezervă originale, care vor asigura min. 9000 copii.	Consumables: HP Black LaserJet Toner Cartridge (~2900 pages); HP 151X Black LaserJet Toner Cartridge (~9700 pages)	
					Garanție min. 24 luni confirmată cu un document oficial de la producător, cu întreținere la centrul de deservire autorizat în Moldova.	Warranty: 3 years NBD on-site official manufacturer warranty; Warranty check of HP equipment: <a href="https://support.hp.com/us-en/check-warranty">https://support.hp.com/us-en/check-warranty</a>	
						Notă: Echipamentul este nou și va fi produs după ce comanda a fost plasată Centrul de service HP autorizat - FORS Computer (certIFICATE atașate)	

 Ofertantul: **Fors-Computer SRL**

Adresa: mun. Chisinau, str. Calea Mosilor, 28



Semnat:

Iasko, Director General

## SPECIFICAȚII DE PREȚ

Numărul licitației: MTender ID MD-1724070427309										19.08.2024	
Denumirea licitației: Tehnică de calcul											
#	Codul CPV	Denumirea bunurilor și/sau a serviciilor	Unitatea de măsură	Cantitatea	Preț unitar, MDL (fără TVA)	Preț unitar, MDL (cu TVA)	Suma, MDL (fără TVA)	Suma, MDL (cu TVA)	Termenul de livrare/prestare, zilei	Clasificație bugetară (IBAN)	Discount, %
<b>LOTUL #1</b>											
<b>1 COMPUTER DE BIROU</b>											
	30200000-1	HP Pro SFF 400 G9 Desktop PC // 8Y4T6AV	set	50	14 246,00	17 095,20	712 300,00	854 760,00	pina la 60 zl.	314110	-
<b>TOTAL PE LOTUL #1:</b>							712 300,00	854 760,00			
<b>LOTUL #2</b>											
<b>1 LAPTOP 15-16"</b>											
	30200000-1	HP ProBook 450 G10 Notebook PC // 974X6AV	set	35	11 095,00	13 314,00	388 325,00	465 990,00	pina la 60 zl.	314110	-
<b>TOTAL PE LOTUL #2:</b>							388 325,00	465 990,00			
<b>LOTUL #3</b>											
<b>1 LAPTOP 13-14"</b>											
	30200000-1	HP ProBook 440 G10 Notebook PC // 974X6AV	set	3	12 928,00	15 513,60	38 784,00	46 540,80	pina la 60 zl.	314110	-
<b>TOTAL PE LOTUL #3:</b>							38 784,00	46 540,80			
<b>LOTUL #4</b>											
<b>1 DISPOZITIV MULTIFUNCȚIONAL LASER MONOCROM</b>											
	30200000-1	HP LaserJet Pro 4103dw	set	120	9 646,00	11 575,20	1 157 520,00	1 389 024,00	pina la 90 zl.	314110	-
<b>TOTAL PE LOTUL #4:</b>							1 157 520,00	1 389 024,00			
<b>TOTAL PE OFERTA:</b>							2 296 929,00	2 756 314,80			

Semnat:



Igor Iasko, Director General

Ofertantul: **Fors-Computer SRL**

Adresa: mun. Chisinau, str. Calea Mosilor, 28

