

SPECIFICAȚII TEHNICE (F4.1)

Numărul licitației: MTender ID ocds-b3wdp1-MD-1599837119896							27.09.2020
Denumirea licitației: Tehnică de calcul							
Codul CPV	Denumirea bunurilor și/sau a serviciilor	Modelul articolului	Tara de origine	Producătorul	Specificarea tehnică deplină solicitată	Specificar a tehnică deplină propusă de către ofertant	Standarde de referință
1							
30200000-1	VR Workstation (Brand Name International)	CTO configuration	CZ	HP	Conform Specificatii tehnice	HP Z2 Tower G5 Workstation Type: Graphics Workstation/ 9FR65AV Features: workflows with variety of certified applications, CAD and BIM, 3D modeling, VR capable for both creation and consumption; remote access to high end workflows like rendering and 3D visualization Chipset: Intel® W480 Processor: Intel® Core™ i9-10900K /9FV25AV (3.7 GHz base frequency, up to 5.3 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores)/9FV25AV Memory: 32GB (2x16GB) DDR4 3200 DIMM Memory/1C8K8AV; 4x DIMM slots, supporting up to 128GB ECC (with Intel Xeon processor)/non-ECC, DDR4 2933 MT/s Storage: HP 1x 2TB 7200 SATA-6G Ent./9FS79AV; 2x HP Z Turbo Drv G2 256GB M.2 2280 TLC PCIe SSD/9FS19AV, 9FS20AV (RAID Level 0/1 is supported with Windows OS) Slots: 1x PCIe Gen3 x16 slot; 1x PCIe Gen3 x4 slot /x16 connector; 2x PCIe Gen3 x1 slot/x4 connector; 2x M.2 2230/2280 (for storage) Network controller: Integrated Intel® I219LM PCIe GbE Controller Graphics:: HP NVIDIA GeForce RTX2070SUPER 8GB/9FR78AV (3x DP, HDMI, PCIe x16 Gen3, Active cooling with dynamic speed, 256-bit, Multi Display Support - 4x); fully compatible with CUDA 10.1 and Wolfram Mathematica 12+; Average G3D Mark 18128 points by https://www.videocardbenchmark.net/gpu.php?gpu=GeForce+RTX+2070+SUPER&id=4116 Ports: Front I/O (SuperSpeed USB Type-C® 10Gbps signaling rate/9NG56AV, 2x SuperSpeed USB Type-A 5Gbps signaling rate with charging, 2x SuperSpeed USB Type-A 10Gbps signaling rate, Headphone/Microphone); Rear I/O (SuperSpeed USB Type-C® 10Gbps signaling rate/9FS02AV, 2x SuperSpeed USB Type-A 5Gbps signaling rate, 2x SuperSpeed USB Type-A 10Gbps signaling rate, RJ-45 (LOM), Audio Line-in and Audio Line-out, 2x DisplayPort™ 1.4) Audio: Realtek ALC3205-VA2-CG, 2.0W internal mono speaker Input devices: HP USB Laser Mouse/QY778AA; HP USB Keyboard (Eng/Rus)/10H97AV Power Supply: 700W 92% efficient/9FR73AV, wide-ranging, active PFC; The power delivery system includes two 6+2 pin graphics power cables Security: TPM 2.0 (Infineon SLB9670). Common Criteria EAL4+ Certified. FIPS 140-2 Level 2 Certified; Security Lock Slot; Serial, USB enable / disable (via BIOS); Removable media Special SW: HP ZCentral Remote Boost 2020 /9FS27AV (https://www8.hp.com/sg/en/workstations/zcentral-remote-boost.html) Monitor: HP EliteDisplay E273q 27-inch IPS Micro Edge, LED Backlit; resolution 2560x1440@60 Hz; Viewing Angle 178° H/178° V; Response Time 5 ms; Flicker Free; 3H Surface Hardness; Brightness 350 cd/m2; Contrast Ratio 1000:1 Static/5,000,000:1 Dynamic; Color Gamut Coverage 99.6% sRGB; DisplayPort 1.2, VGA, HDMI 1.4, 2x USB 3.0 ports, 2x USB Type-C 3.1; Integrated Enhanced cable management; Display height adjustment 0 - 150 mm; Pivot Rotation; 100 mm VESA Mounting; Swivel Range 45°L to 45°R; Tilt Range -5° to + 22° vertical; Cables Included: HDMI 1,8 m, DisplayPort™ 1,8 m, USB 3.1 C to A 5V/3A cable 1,8 m, PowerCable 1.9 m Warranty: Workstation, Monitor and accessories - 5 Years NBD on-site official manufacturer warranty, incl. with Defective Media Retention service for workstation	Eco-Label Certifications: IT ECO declaration; ENERGY STAR®; RoHS; EPEAT Gold; WEEE; ISO 14001
		1FH52AA	CH				
		U7935E / U1G57AV					
2							
30200000-1	Monitor (Brand Name International)	1J510A4 / U7935E	CN	HP	Conform Specificatii tehnice	HP Z27n G2 Display 27-inch IPS Micro Edge, LED Backlit; resolution 2560x1440@60 Hz; Viewing Angle 178° H/178° V; Response Time 5 ms; Flicker Free; 3H Surface Hardness; Brightness 300 cd/m2; Contrast Ratio 1000:1 Static/10,000,000:1 Dynamic; 111.89 PPI; Color Gamut Coverage >99% sRGB; Factory Color Calibrated (factory calibration report will be supply with the display); Factory Calibration Accuracy (White Point Maximum 3.0 - ΔE 2000; Grayscale Average (255 levels) Maximum - 3.0 ΔE 2000; Gamma Target Tolerance (2.2 for sRGB, 2.4 for BT.709) - ±0.1; X-Rite ColorChecker Average Maximum - 3.0 ΔE 2000; 2x DisplayPort 1.2 (in/out) , DVI-D, HDMI 1.4, 3x USB 3.0 ports, 2x USB Type-C 3.1 (downstream Power Delivery up to 10 W / upstream Power Delivery up to 15 W); Picture-in-Picture/Picture-by-PictureIntegrated Enhanced cable management; Display height adjustment 0 - 150 mm; Pivot Rotation (Clockwise and Counter Clockwise, Detent at 0 degrees); 100 mm VESA Mounting; Swivel Range 45°L to 45°R; Tilt Range -5° to + 22° vertical; Enhanced cable management; Security Lock Ready; Zero Bright Dot Policy; Cables Included: DisplayPort™ 1,8 m, USB 3.1 C to A 5V/3A cable 1,8 m, PowerCable 1.9 m Warranty: 5 Years NBD on-site official manufacturer warranty	Eco-Label Certifications: IT ECO declaration; ENERGY STAR®; RoHS; EPEAT Gold; WEEE; ISO 14001

3		UNITATE PC						
30200000-1	Unitate PC (Brand Name International)	CTO configuration	CZ	HP	Conform Specificatii tehnice	HP EliteDesk 705 G5 Business PC Type: SFF Business Desktop/6JH69AV Chipset: AMD® PRO 560 Processor: AMD Ryzen™ 5 PRO 3400G/6JV46AV (3.7 GHz base frequency, up to 4.2 GHz with Max Boost Technology, 6 MB cache, 4 cores/8 threads, Official Launch Date 30/09/2019) Memory: 16GB DDR4-2666/6JV89AV (2x8GB) Memory; 4x DIMM slots, supporting up to 128GB Storage: HP 2TB 7200 SATA-6G HDD/6JU72AV; HP 256GB M.2 2280 NVMe PCIe TLC SSD/6JV18AV (RAID Level 0/1 is supported with Windows OS) Slots: PCIe Gen3 x8 slot; PCIe Gen3 x1 slot; 2x M.2 PCIe x2 2280/2230 Combo (PCIe Gen3 x4 for storage); 1x M.2 2230 (PCIe Gen3 x1 for WLAN) Network controller: Integrated Realtek® RTL8111EPH Graphics: AMD® Radeon™ RX Vega 11 Graphics, 11x GPU cores (1400 MHz) Ports: Front I/O (3x USB 3.1 Gen 1, USB 3.1 Gen 1 Fast Charging Data Port, Headphone/Microphone); Rear I/O (4x USB 3.1 Gen 1, 2x USB 2.0 ports, RJ-45 (LOM), Audio Line-in and Audio Line-out, 2x DP, HDMI) Audio: Conexant Zuma CX20632 HD Stereo Codec; Internal Speaker Amplifier 2W Input devices: HP USB Laser Mouse /QY778AA; HP USB Keyboard (Eng/Rus)/6JW61AV Power Supply: 80 PLUS Platinum 180W active PFC with 93% efficient Monitor: <u>HP P27h G4</u> 27-inch IPS Micro Edge, LED Backlit; resolution 1920X1080@60 Hz; Viewing Angle 178° H/178° V; Response Time 5 ms; Speakers 2W per channel; Brightness 250 cd/m2; Contrast Ratio 1000:1 Static/8,000,000:1 Dynamic; DisplayPort 1.2, VGA, HDMI 1.4, Display height adjustment 0 - 100 mm; Pivot Rotation; 100 mm VESA Mounting; Swivel Range 360°, Tilt Range -5° to + 23° vertical; Power (1.9m), HDMI (1.8m), VGA(1.8m) and Audio Cables (1.8m) will be included Warranty: Desktop, Monitor and accessories - 3 Years NBD on-site official manufacturer warranty, incl. with Defective Media Retention service for Desktop	Eco-Label Certifications: IT ECO declaration; ENERGY STAR®; RoHS; EPEAT Gold; WEEE; ISO 14001	
						ZVH95AA		CH
						UE332AV		

Semnata:



Igor Iasko, Director General