



**Philippine Rice Research Institute**  
Central Experiment Station  
Maligaya, Science City of Muñoz, 3119 Nueva Ecija

**07 March 2024**

**Bid Bulletin No. 1**

**Subject: SUPPLY AND DELIVERY OF COMPUTERS, PRINTERS AND CAMERAS  
FOR PHILRICE CES under PB 24-01-13**

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This bid bulletin is being issued to clarify and amend Section I. Invitation to Bid, Section VI. Schedule of Requirements and Section VII. Technical Specifications in the bidding document.

**Please refer to attached documents for complete details.**

Section VII (Revised Technical Specifications) must be included in the bid proposal as part of the Eligibility and Technical Component (1<sup>st</sup> envelope) to signify conformity to the revisions.

Please be guided accordingly.

  
**LEYLANI M. JULIANO**  
Vice Chairperson

**Better PhilRice. Better Rice Communities.**

**Email:** prri.mail@mail.philrice.gov.ph **Text Center:** (+63) 917-111-7423  
**Websites:** www.philrice.gov.ph, www.pinoyrice.com  
**Liaison Office:** 3rd Floor, ATI building, Elliptical Road, Diliman, Quezon City  
**Mobile No.:** (+63)928-915-9628



## SECTION VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item no.	Description	Quantity	Unit	Total ABC	Division	Delivery Period
1	Desktop Computer	unit	5	800,000.00	ASPPD	30 calendar days upon receipt of PO/NTP
2	Desktop Computer	unit	4	600,000.00	ASPPD	
3	Desktop Computer	unit	3	360,000.00	ASPPD	
4	Laptop Computer	unit	11	1,650,000.00	ASPPD	
5	Laptop Computer	unit	5	500,000.00	ASPPD	
6	Laptop Computer	unit	1	100,000.00	ASPPD	
7	Desktop Computer	unit	1	80,000.00	ASPPD	
8	Digital Camera	unit	1	60,000.00	ASPPD	
9	Mirrorless Camera	unit	1	75,000.00	CBC	
10	Desktop Computer	unit	2	369,920.00	DevCom	
11	Desktop Computer	unit	1	334,765.00	DevCom	
12	Laptop Computer	unit	1	65,000.00	GRD	
13	All-in-One A3 Printer	unit	1	75,000.00	ODEDR	
14	All-in-One Laser Printer	unit	1	90,000.00	ODEDR	
15	Laptop Computer	unit	1	85,000.00	ODEDR	
16	Desktop Computer	unit	1	75,000.00	PBBD	
17	All-in-one Desktop Computer	unit	1	60,000.00	PBBD	
18	Desktop Computer	unit	2	150,000.00	PBBD	
19	Desktop Computer	unit	3	360,000.00	SED	
20	Desktop Computer	unit	3	171,000.00	SED	

**TOTAL ABC      PhP 6,060,685.00**

# SECTION VII. Technical Specifications

Item	Specification	Statement of Compliance
1	<p><b>Five (5) units Desktop Computer</b></p> <p>Cloned/assembled, High-performance desktop computer with the following specifications:</p> <p><b>Processor:</b> High-capacity, 24 cores, 32 threads   P-Cores: 8, E-Cores: 16   3.0 GHz up to 5.8 GHz Turbo Boost</p> <p><b>Memory:</b> 16GB (2X8GB) DDR5 6000</p> <p><b>Storage:</b> 1TB NVMe SSD and 1TB SATA SSD</p> <p><b>Casing:</b> ATX with RGB, TG Black &amp; Tempered Glass</p> <p><b>PSU:</b> 850W, 80+ Platinum, Full Modular</p> <p><b>Graphics Card:</b> High-performance card, 12GB GDDR6X, 2790 MHz Boost Clock</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE LAN</p> <p><b>Monitor:</b> 27-inch Flat IPS 1920x1080 FHD, 75Hz, VGA, HDMI ports</p> <p><b>Others:</b> Keyboard, Wireless Mouse, Headset, Speaker</p> <p><b>Operating System:</b> Licensed Professional, latest 64bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Perpetual Licensed, latest 32-64 bit, including word processor, spreadsheet presentation for business</p>	<p><i>Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.</i></p>

	<p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 850VA   Conformance: EN/IEC 60204-1, EN/IEC 60204-2</p> <p><b>Warranty:</b> one (1) year on parts and service</p> <p>(for ASPPD)</p>	
2	<p><b>Four (4) units Desktop Computer</b></p> <p>Branded and Brand New high-performance desktop computer with the following specifications:</p> <p><b>Processor:</b> High-performance processor, 16 Cores, (8 P-cores, 8 E-cores), 24 Threads, supporting up to 5.20 GHz Turbo Boost</p> <p><b>Memory:</b> 16GB DDR5, 4400 MHz, expandable up to 128 GB</p> <p><b>Storage:</b> 1 TB M.2 PCIe NVMe SSD</p> <p><b>Graphics Card:</b> 8 GB GDDR6 dedicated with the at least 2020 released GPU, up to 1.76 GHz</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE LAN   Wi-Fi 6E, 802.11ax, MU-MIMO, and Bluetooth 5.2 support</p> <p><b>Monitor:</b> 31.5 inch</p> <p><b>Others:</b> Keyboard, Wireless Mouse, Headset, Speaker</p> <p><b>Operating System:</b> Licensed Professional, latest 64bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Perpetual Licensed, latest 32-64 bit, including word processor, spreadsheet presentation for business</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 850VA   Conformance: EN/IEC 60204-1, EN/IEC 60204-2</p> <p><b>Warranty:</b> one (1) year on parts and service</p> <p>(for ASPPD)</p>	

<p>3</p>	<p><b>Three (3) units Desktop Computer</b></p> <p>Branded, high-performance desktop computer</p> <p><b>Processor:</b> (minimum) 6 cores, 12 threads, Up to 4.4GHz frequency, 19MB, 7nm</p> <p><b>Memory:</b> 32 GB DDR4 3200 MHz</p> <p><b>Storage:</b> (minimum) 256 GB M.2 SSD, 1TB SATA SSD / SATA HDD</p> <p><b>Graphics Card:</b> 8 GB GDDR6 dedicated with the at least 2020 released GPU, up to 1.76 GHz</p> <p><b>I/O Ports:</b> 1x RJ45 Gigabit Ethernet, 1x HDMI 1.4, 1x VGA Port, 1x DVI-D, 4 x Audio jacks, 6x USB 3.2 Gen 1 Type-A, 2x USB 3.2 Gen 2 Type-A, 1x 3.5mm combo audio jack</p> <p><b>Monitor:</b> 27 inch Full HD (1920 x 1080), IPS, 144Hz, 1ms MPRT</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE LAN</p> <p><b>Others:</b> Keyboard, Wireless Mouse, Headset, Speaker</p> <p><b>Form Factor:</b> Tower, Pre-Built</p> <p><b>Operating System:</b> Licensed Professional, latest 64-bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Perpetual Licensed, latest 32-64bit, including word processor, spreadsheet, presentation, database management PRO</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 850VA, Conformance: CE, EAC, RCM, VDE</p> <p><b>Warranty:</b> one (1) year on parts and service (for ASPPD)</p>	
<p>4</p>	<p><b>Eleven (11) units Laptop Computer</b></p> <p>Branded and Brand New High-Performance Laptop Computer with the following specifications:</p> <p><b>Processor:</b> High-performance processor, 16 cores, 24 threads</p> <p><b>Memory:</b> 32 GB DDR5, 4800 MT/s, expandable</p> <p><b>Storage:</b> 1 TB M.2 PCIe NVMe SSD</p>	

	<p><b>Graphics Card:</b> 8 GB GDDR6 memory, 128-bit (or wider),</p> <p><b>Wireless:</b> Wi-Fi 6 802.11ax support, Bluetooth</p> <p><b>Display:</b> 15.6-inch Full HD (1920x1080) display with a 165Hz refresh rate, 3ms response time, and sRGB-100% color gamut support</p> <p>Others: Mouse, USB headset   Heavy-duty and weather-proof laptop bag</p> <p><b>Operating System:</b> Licensed Professional, latest 64-bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Perpetual Licensed, latest 32-64bit, including word processor, spreadsheet, presentation. Database management PRO</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>Warranty:</b> one (1) year on parts and service (for ASPPD)</p>	
5	<p><b>Five (5) units Laptop Computer</b></p> <p>Branded and Brand New Laptop Computer with the following specifications:</p> <p><b>Processor:</b> 8-core   16-thread, 16MB L3 cache, up to 4.7 GHz max boost)</p> <p><b>Memory:</b> 16GB DDR5</p> <p><b>Storage:</b> 512GB PCIe 4.0 NVMe M.2 SSD</p> <p><b>Graphics Card:</b> 6GB GDDR6 VRAM   802.11AX</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE LAN   WiFi 6e + BT5.3</p> <p><b>Display:</b> 14" QHD+ 16:10 (2560 x 1600, WQXGA) IPS 165Hz</p> <p><b>Others:</b> Mouse, USB headset and heavy-duty, weather-proof laptop bag</p> <p><b>Operating System:</b> Licensed Professional, latest 64-bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Perpetual Licensed, latest 32-64bit, including word processor, spreadsheet, presentation, for business</p>	

	<p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>Warranty:</b> one (1) year on parts and service</p> <p>(for ASPPD)</p>	
6	<p><b>One (1) unit Laptop Computer</b></p> <p>Branded and Brand New Laptop Computer with the following specifications:</p> <p><b>Processor:</b> 8 cores with 4 performance cores and 4 efficiency cores, 3.2 GHz base frequency, 5 nm or Higher</p> <p><b>Memory:</b> 8 GB LPDDR4X 4266 MHz</p> <p><b>Storage:</b> 512 GB M.2 SSD</p> <p><b>Graphics Card:</b> 8-core</p> <p><b>I/O:</b> 2x USB Type-C 3.1, Thunderbolt, Audio Jack</p> <p><b>Display:</b> 13.3-inch (diagonal), 2560x1600 native resolution, 227 ppi</p> <p><b>Others:</b> Mouse and laptop bag</p> <p><b>Operating System:</b> Licensed, Unix-based with APFS file system</p> <p><b>Office Productivity Software:</b> Perpetual Licensed, including word processor, spreadsheet, presentation, database management for business for Unix-based OS for APFS file system</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>Warranty:</b> one (1) year on parts and service</p> <p>(for ASPPD)</p>	
7	<p><b>One (1) unit Desktop Computer</b></p> <p>Brand New and Branded Desktop Computer with the following specifications:</p> <p><b>Processor:</b> 6 cores / 6 performance cores / 12 threads / 3Ghz base Frequency to 4.6Ghz turbo frequency / 18MB smart Cache / 7.5MB L2 Cache</p> <p><b>Motherboard:</b> USB3 / NVME M.2 / VGA / HDMI ports / 12th gen support Motherboard</p> <p><b>Memory:</b> 8 GB DDR4 3200 Memory</p> <p><b>Hard Drive:</b> NVME M.2 SSD drive 1TB</p>	

	<p>Built-in graphics (min)</p> <p><b>Monitor:</b> 22 inches; min LED IPS Monitor</p> <p><b>Others:</b> USB Mouse and Keyboard</p> <p><b>Operating System:</b> Licensed Professional, latest 64-bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Office productivity Suite for business - Perpetual License</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 650 VA   Conformance: EN/IEC 60204-1, EN/IEC 60204-2</p> <p><b>Warranty:</b> one (1) year on parts and service</p> <p>(for ASPPD)</p>	
8	<p><b>One (1) unit Digital Camera</b></p> <p>Digital Camera with the following specifications:</p> <p><b>AF Modes:</b> One-Shot AF, AI Focus AF (stills), Servo AF / Movie Servo AF</p> <p><b>AF Point Selection:</b> Spot AF, 1-point AF, Expand AF area (above/below/left/right or around), Flexible Zone AF 1/2/3, Whole area AF</p> <p><b>AF System Points:</b> Up to 651 AF frame zones</p> <p><b>Dimensions:</b> (mm) (Approx.): 116.3 x 85.5 x 68.8</p> <p><b>Effective Pixels:</b> (Megapixels) 24.2</p> <p><b>Focal Length:</b> 29-72 mm</p> <p><b>Image Resolution:</b> 6000 x 4000 (JPEG L/RAW/C-RAW/HEIF)</p> <p>3984 x 2656 (HEIF, JPEG M)</p> <p>2976 x 1984 (HEIF, JPEG S1)</p> <p>2400 x 1600 (HEIF, JPEG S2)</p> <p><b>LCD Monitor:</b> 3.0 inch</p> <p><b>LCD Monitor Resolutions (dots):</b> 1.62 million</p> <p><b>Optical zoom:</b> 2.5x</p> <p>AC Power (AC Adapter and DC Coupler)</p>	



	<p>Advanced image processing unit (DIGIC X or equivalent)</p> <p><b>Sensor Size:</b> APS-C CMOS</p> <p><b>Warranty:</b> one (1) year on parts and service (for ASPPD)</p>	
9	<p><b>One (1) unit Mirrorless Camera</b></p> <p>Mirrorless camera with the following specifications:</p> <p>20.1MP stacked back illuminated 1-inch RS CMOS sensor w/ DRAM, large aperture 24-70mm1 F1.8-2.8</p> <p><b>Enhanced subject capture:</b> wide 425 Phase/ 425 contrast detection points over 84 percent of the sensor Fast and accurate: Up to 11Fps continuous shooting at 24.2 MP raw with crisp, clear natural colors</p> <p><b>Multiple movie functions:</b> Make time lapse movies or slow/quick motion videos without post processing Tiltable</p> <p><b>LCD screen:</b> customizable for vlogging, still photography or recording a professional film</p> <p><b>Includes:</b> rechargeable battery, AC adaptor, (shoulder strap, body cap, accessory shoe cap, eyepiece cup, micro USB cable,)</p> <p><b>Metering Type:</b> 1200 zone evaluative metering</p> <p><b>Warranty:</b> 2 years on parts and service (for CBC)</p>	
10	<p><b>Two (2) units Desktop Computer</b></p> <p>Branded/Brand New Desktop Computer with the following specifications:</p> <p><b>Processor:</b> M3 or equivalent, 8-core CPU (4 P-cores, 4 E-cores) , 16-core NE</p> <p><b>Graphics:</b> 10-core GPU</p> <p><b>Memory:</b> 16GB unified memory</p> <p><b>Storage:</b> 1 TB SSD storage</p> <p><b>I/O Ports:</b> Two Thunderbolt / USB 4 ports Two USB 3 ports (essential for existing Thunderbolt drives)</p> <p><b>Connectivity:</b> Gigabit Ethernet</p>	

	<p><b>Others:</b> Keyboard with Touch ID and Numeric Keypad - US English</p> <p><b>Operating System:</b> Licensed, Latest</p> <p><b>Video Editing Software:</b> Must be compatible with existing Final cut pro files, Apple compressor files, and Logic Pro project files</p> <p>Certificate of Authenticity (COA) for Operating System</p> <p><b>Other Specification and Purpose:</b></p> <p>*For professional-grade video editing, production, and live streaming.</p> <p>*Can open existing mac files, like Final Cut Pro project files, Apple Compressor files, and Logic Pro project files.</p> <p>*For seamless editing, real-time rendering, and advanced sound mixing. Can support 4K and higher resolutions produced by our existing high-end cameras, and can be optimized for smooth playback and accelerated processing.</p> <p>*Can open existing Mac OS Extended (Journaled) drive partitions.</p> <p><b>Warranty:</b> one (1) year on parts and service (for DevCom)</p>	
11	<p><b>One (1) unit Desktop Computer</b></p> <p>Branded and Brand New Desktop Computer with the following specifications:</p> <p><b>Processor:</b> 24-core (16 P-cores, 8 E-cores)   32-core NE</p> <p><b>Graphics:</b> 60-core GPU</p> <p><b>Memory:</b> 64 GB unified</p> <p><b>Storage:</b> 1TB SSD</p> <p><b>I/O Ports:</b> Front - Two Thunderbolt 4 ports, one SDXC card slot Back: Four Thunderbolt 4 ports, two USB-A ports, HDMI port, 3.5 mm headphone jack</p> <p><b>Connectivity:</b> 10Gb Ethernet</p> <p><b>Monitor:</b> 27 inch FHD (1920 x 1080), 165Hz, 4ms, WLED Curved Monitor 27-inch 1500R Curved Monitor, 1920 x 1080, FHD resolution, 144Hz Refresh Rate</p> <p><b>Keyboard: Height:</b> 0.16 - 0.43 inch (0.41 - 1.09 cm), <b>Width:</b> 10.98 inches (27.89 cm), <b>Depth:</b> 4.52 inches (11.49 cm), Multimedia</p>	

	<p>keys Connections and Expansion Bluetooth Lightning port</p> <p><b>Wireless Mouse:</b> White Multi-Touch  <b>Surface Height:</b> 2.16 cm (0.85 inches),  <b>Width:</b> 5.71 cm (2.25 inches), <b>Depth:</b> 11.35 cm (4.47 inches), Multi-Touch Connections and Expansion Bluetooth Lightning Port  Wireless</p> <p><b>Operating System:</b> Licensed, Latest</p> <p><b>Video Editing Software:</b> Must be compatible with existing Final cut pro files, Apple compressor files, and Logic Pro project files</p> <p>Certificate of Authenticity (COA) for Operating System</p> <p><b>Other Specifications and purpose:</b></p> <p>*For professional-grade video editing, production, and live streaming.</p> <p>*Can open existing mac files, like Final Cut Pro project files, Apple Compressor files, and Logic Pro project files.</p> <p>*For seamless editing, real-time rendering, and advanced sound mixing. Can support 4K and higher resolutions produced by our existing high-end cameras, and can be optimized for smooth playback and accelerated processing.</p> <p>*Can open existing Mac OS Extended (Journaled) drive partitions.</p> <p><b>Warranty:</b> one (1) year on parts and service  (for DevCom)</p>	
12	<p><b>One (1) unit Laptop Computer</b></p> <p>Branded and Brand New Laptop Computer with the following specifications:</p> <p><b>Processor:</b> 4 cores   8 threads   4.60 GHz Max. Turbo Frequency</p> <p><b>Memory:</b> 8GB DDR4-2400 SDRAM</p> <p><b>Storage:</b> 128GB SSD + 1TB HD</p> <p><b>Display:</b> 14.0-inch diagonal FHD IPS micro-edge WLED-backlit Touch Screen (1920 x 1080)</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE LAN   Wireless- 802.11a/b/g/n/ac (1x1) Wi-Fi and Bluetooth 5 Combo</p>	

	<p><b>I/O Ports:</b> HDMI  headphone / microphone combo   RJ-45   2 USB 3.1 Gen 1   1 USB 3.1 Type-C   Multi-format SD media card reader</p> <p><b>Webcam:</b> Wide Vision HD Camera with integrated dual array digital microphone</p> <p><b>Audio:</b> Play, Dual Speakers</p> <p><b>Operating System:</b> Licensed, latest 64-bit with NTFS file system</p> <p><b>Office Productivity Software:</b> Licensed, latest 32-64bit, including word processor, spreadsheet, presentation for Business (Perpetual)</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>Warranty:</b> one (1) year on parts and service (for GRD)</p>	
13	<p><b>One (1) unit All-in-One A3 Printer</b></p> <p>Branded and Brand New All-in-One A3 Printer with the following specifications:</p> <p><b>Printer Type:</b> Print, Scan, Copy, Fax with ADF</p> <p><b>Printing</b></p> <p><b>Print Speed:</b> Photo - approx. 26 sec/photo (border) / 27 sec/photo (borderless)   A3 (Black/Color) -up to 13.5 ipm / 13.5 ipm *2   A3 Duplex - up to 10.1 ipm / 10.0 ipm *2</p> <p><b>Print Direction:</b> Bi-directional</p> <p><b>Automatic 2-sided Printing:</b> up to A3</p> <p><b>Copy Function</b></p> <p><b>Reduction / Enlargement / Resize:</b> 25 - 400%</p> <p><b>Maximum Size:</b> A3</p> <p><b>Resolution:</b> 600 x 600 dpi</p> <p><b>Max Copies:</b> 999 copies</p> <p><b>Scanning</b></p> <p><b>Scanner Type:</b> Flatbed color image scanner</p> <p><b>Optical Resolution:</b> 1200 x 2400 dpi Maximum</p> <p><b>Scan Area:</b> 297 x 431.8 (mm)</p> <p><b>Fax Function</b></p>	

	<p><b>Type of Fax:</b> Walk-up Black-and-white and Color Fax Capability</p> <p><b>Receive Memory / Page Memory:</b> 6MB, Page memory   Up to 550 pages</p> <p><b>Transmission Paper Size (Flatbed &amp; ADF):</b> A5, A4, A3, B5, B4, Half Letter, Letter, Legal, 11 x 17"</p> <p><b>Receiving Paper Size:</b> Half Letter, A5, B5, A4, Letter, Legal, B4, 11 x 17", A3, A3+</p> <p><b>Fax Features:</b> Automatic 2-sided Fax</p> <p>Type of Direct Printing: USB Memory</p> <p><b>Paper Handling</b></p> <p><b>Number of Paper Trays:</b> 3 (Front 2, Rear 1)</p> <p><b>Output Capacity:</b> 125 sheets (A4)   20 sheets (Premium Glossy)</p> <p><b>Maximum Paper Size:</b> 329 x 6000 mm</p> <p><b>Paper Sizes:</b> A3, Super B (13 x 19"), Indian Legal, Letter, A4, 16K (195 x 270mm), 8K (270 x 390mm), Executive (7.25 x 10.5"), B4, B5, A5, B6, A6, 8.5 x 13", 5 x 7", 4 x 6", 8 x 10", Legal (8.5 x 14"), 16:9 wide, Envelopes: #10, DL, C6, C4</p> <p><b>Paper Feed Method:</b> Friction feed</p> <p>Print Margin: 3mm top, left, right, bottom</p> <p><b>Interface</b></p> <p><b>USB:</b> USB 2.0   <b>Network:</b> Ethernet, Wi-Fi IEEE 802.11 b/g/n, Wi-Fi Direct   <b>Network Protocol:</b> TCP/IPv4, TCP/IPv6</p> <p><b>ADF Specs:</b> 64-95 g/m2 paper thickness   50 sheets paper capacity</p> <p><b>Warranty:</b> one (1) year on parts and service (for ODEDR)</p>	
14	<p><b>One (1) unit All-in-One Laser Printer</b></p> <p>Branded and Brand New Printer with the following specifications:</p> <p><b>Printer Type:</b> Print, Copy, Scan, Fax</p> <p><b>Printing</b></p> <p><b>Print Speed:</b> Up to 22 ppm (Letter); Up to 21 ppm (A4)   Duplex: up to 12 ppm</p>	

	<p>Print Resolution: Up to 600 x 600 dpi (Black-best) Up to 600 x 600 dpi (Color-best)</p> <p><b>Print Technology:</b> Laser</p> <p><b>Scanning</b></p> <p>Scan Type: Flatbed   ADF   Contact Image Sensor</p> <p><b>Scan Speed:</b> up to 26 ppm (black)   up to 23 ppm (Color)</p> <p><b>Scan Resolution:</b> Up to 1200 x 1200 dpi</p> <p><b>Copy Resolution:</b> Black (text &amp; graphics): Up to 600 x 600 dpi; Color (text &amp; graphics): Up to 600 x 400 dpi</p> <p><b>Fax Resolution:</b> Black (best): Up to 300 x 300 dpi Standard</p> <p><b>Copy Function</b></p> <p>Reduction / Enlargement / Resize: 25 to 400%</p> <p>Speed (color and black): up to 21 cpm</p> <p>Resolution: up to 600 x 600 dpi</p> <p>Maximum numbers of copies: 99 copies</p> <p><b>Fax Function</b></p> <p><b>Speed:</b> up to 33.6kbps max</p> <p>Resolution (black): up to 300 x 300 dpi</p> <p><b>Memory:</b> up to 1300 pages</p> <p><b>Others:</b> Auto redialing   delayed sending   fax forwarding   fax activity reports   Telephone handset supported   33.6 kbps modem   120 maximum numbers</p> <p><b>Connectivity:</b> High Speed USB 2.0 port   Ethernet 10/100/1000 Base-TX network port   802.11n 2.4/5GHz wireless   Fax port   Front Host USB   Wi-Fi Direct   USB Printing</p> <p><b>Printing Duty cycle:</b> Monthly (letter): Up to 40,000 pages Display: 2.7" color graphic screen</p> <p><b>Warranty:</b> one (1) year on parts and service (for ODEDR)</p>	
15	<p><b>One (1) unit Laptop Computer</b></p> <p>Branded and Brand New Laptop Computer with the following specifications:</p>	

	<p><b>Processor:</b> 6 cores   12 threads, 2.6Ghz base frequency to 4.5Ghz turbo frequency, 12MB cache, 14nm</p> <p><b>Graphics:</b> GPU with 4GB DDR5</p> <p><b>Memory:</b> 16 GB DDR4 3200</p> <p><b>Storage:</b> 1TB M.2 SSD</p> <p><b>Monitor:</b> 15 inch LED</p> <p><b>I/O:</b> Wireless mouse, USB2, USB3, VGA (optional), HDMI minimum 3 USB ports</p> <p><b>Others:</b> Wireless mouse   laptop bag</p> <p><b>Operating System:</b> Licensed, latest 64-bit with NTFS file system</p> <p><b>Office Productivity Software:</b> Licensed, latest 32-64bit, including word processor, spreadsheet, presentation for Business (Perpetual)</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p>Slim and Lightweight</p> <p><b>Warranty:</b> one (1) year on parts and service (for OEDR)</p>	
16	<p><b>One (1) unit Desktop Computer</b></p> <p>Branded and Brand New Desktop Computer with the following specifications:</p> <p><b>Processor:</b> 4 performance cores   8 threads 3.3GHz base frequency to 4.3 GHz Turbo frequency 12 MB L3 smart cache</p> <p><b>Memory:</b> 2x8GB DDR4 3200 (16GB total)</p> <p><b>Storage:</b> 1TB NVME M.2 SSD</p> <p><b>Video Card:</b> 1030 chipset + 2GB DDR5 memory</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE</p> <p><b>I/O Ports:</b> HDMI  headphone / microphone combo RJ-45   USB 3.1  USB 3.1 Type-C</p> <p><b>Monitor:</b> 22" LED IPS</p> <p><b>Accessories:</b> mouse and keyboard   1080p Webcam</p> <p><b>Operating System:</b> Licensed Professional, latest 64-bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Licensed, Latest 32-64bit bundled word processor,</p>	

	<p>spreadsheet, and presentation for BUSINESS (Perpetual)</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 650 VA   Conformance: EN/IEC 60204-1, EN/IEC 60204-2</p> <p><b>Warranty:</b> one (1) year on parts and service (for PBBD)</p>	
17	<p><b>One (1) unit All-in-One Desktop Computer</b></p> <p>Branded and Brand New All-in-one Desktop Computer with the following specifications:</p> <p><b>Display:</b> 23.8" LED</p> <p><b>Processor:</b> 6 cores (2 P-cores, 4 E-cores)   8 threads   3.3 GHz max efficient core turbo frequency   4.4GHz max performance core turbo frequency, 10MB cache</p> <p><b>Memory:</b> 8GB DDR4</p> <p><b>Storage:</b> 512GB NVME SSD drive</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE</p> <p><b>Operating System:</b> Licensed Professional, latest 64-bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Licensed, Latest 32-64bit bundled word processor, spreadsheet, and presentation for BUSINESS (Perpetual)</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 650VA   Conformance: EN/IEC 60204-1, EN/IEC 60204-2</p> <p><b>Warranty:</b> one (1) year on parts and service (for PBBD)</p>	
18	<p><b>Two (2) units Desktop Computer</b></p> <p>Branded and Brand New Desktop Computer with the following specifications:</p> <p><b>Processor:</b> 4 performance cores   8 threads 3.3GHz base frequency to 4.3 GHz Turbo frequency 12 MB L3 smart cache</p> <p><b>Memory:</b> 2x8GB DDR4 3200 (16GB total)</p>	



	<p><b>Storage:</b> 1TB NVME M.2 SSD</p> <p><b>Video Card:</b> 1030 chipset + 2GB DDR5 memory</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE</p> <p><b>I/O Ports:</b> HDMI  headphone / microphone combo   RJ-45   USB 3.1  USB 3.1 Type-C</p> <p><b>Monitor:</b> 22" LED IPS</p> <p><b>Accessories:</b> mouse and keyboard   1080p Webcam</p> <p><b>Operating System:</b> Licensed Professional, latest 64-bit with NTFS file system, for network domain environment</p> <p><b>Office Productivity Software:</b> Licensed, Latest 32-64bit bundled word processor, spreadsheet, and presentation for BUSINESS (Perpetual)</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 650 VA   Conformance: EN/IEC 60204-1, EN/IEC 60204-2</p> <p><b>Warranty:</b> one (1) year on parts and service (for PBBD)</p>	
19	<p><b>Three (3) units Desktop Computer</b></p> <p>Branded and New Desktop Tower Type Computer with the following specifications:</p> <p><b>Processor:</b> 16 core/8 performance cores+8 efficient cores/1.5-5.2 Ghz /24 threads/30MB smart cache/24MB L2 cache processor</p> <p><b>Memory:</b> 16 GB x 2 DDR4 3200 Memory (32GB Total)</p> <p><b>Storage:</b> dual NVME M.2 SSD Drive 256GB+1TB</p> <p><b>Video Card:</b> 4060 chipset video cards with 8GB DDR6 Memory</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE, wifi AX</p> <p><b>I/O Ports:</b> USB 3.2 Gen2/2. M.2 port/HDMI ports/SATA/HDMI  headphone / microphone combo   RJ-45   USB 3.1  USB 3.1 Type-C</p> <p><b>Monitor:</b> 27" LED IPS Monitor/HDMI</p> <p><b>Accessories:</b> Wireless keyboard and mouse</p>	

	<p><b>Operating System:</b> Latest Professional 64-bit OS with NTFS File System</p> <p><b>Office Productivity Software:</b> Perpetual Licensed office productivity suite Professional</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 1000 VA UPS Conformance: EN/IEC 60204-1, EN/IEC 60204-2</p> <p><b>Warranty:</b> one (1) year on parts and service  (for SED)</p>	
20	<p><b>Three (3) units Desktop Computer</b></p> <p>Cloned or Branded Desktop Computer with the following specifications:</p> <p><b>Processor:</b> 4 cores/ 4 performances cores/ 8 thread/ 3.3 Ghz base frequency to 4.3 Ghz turbo frequency/ 12 MB smart cache/ 5MB L2 cache/ built-in graphic processor USB3/NVME M.2/ VGA/ HDMI ports/ 12th gen support motherboard</p> <p><b>Memory:</b> 8 GB DDR4 3200</p> <p><b>Storage:</b> NVME M.2 SSD drive 512 GB</p> <p><b>Connectivity:</b> Integrated 10/100/1000 GbE, wifi AX</p> <p><b>I/O Ports:</b> USB3/NVME M.2/ VGA/ HDMI ports</p> <p><b>Monitor:</b> 22" min LED IPS monitor</p> <p><b>Accessories:</b> USB Mouse and Keyboard, USB 1080p webcam, External Speakers</p> <p><b>Operating System:</b> Latest Professional 64-bit OS with NTFS File System</p> <p>Office Productivity Software: Perpetual Licensed office productivity suite Professional</p> <p>Certificate of Authenticity (COA) for Operating System and Office Productivity Software</p> <p><b>UPS:</b> 650 VA UPS Conformance: EN/IEC 60204-1, EN/IEC 60204-2</p> <p><b>Warranty:</b> one (1) year on parts and service  (for SED)</p>	
	***** <b>nothing follows</b> *****	

