



**BID BULLETIN 01**

**Date:** October 31, 2023

**Project Title:** *Supply and Delivery of IT Equipment and Supplies (VSU-GOODS-24-04)*

**Location:** VSU Main, Visca, Baybay City, Leyte

Bidders are hereby informed/reminded of the following addendums/amendments/clarifications:

**I. LIST OF REQUIREMENTS**

<b>(1st Envelope) TECHNICAL COMPONENT ENVELOPE</b>	
<i>Legal Documents</i>	
1	PhilGEPS Certificate of Registration (Platinum)
<i>Technical Documents</i>	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or Php <b>3,427,145.00</b> )
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 3,427,145.00 and the largest of which should be at least PhP <b>1,713,572.50</b> .
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 3 months for supplies)
9	Original Duly Signed Omnibus Sworn Statement
<i>Financial Documents</i>	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least Php 6,854,290.00)
	Or
	Committed Line of Credit (at least Php <b>685,429.00</b> )
<b>(2<sup>nd</sup> Envelope) FINANCIAL COMPONENT ENVELOPE</b>	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



**Please take note:**

1. In the **Technical Specifications**, bidders must state either “Comply” or “Not Comply” **against each of the individual parameters of the specifications** per item stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in the **Bidders Bid** and cross-referenced to that evidence. Evidence shall be in the form of **manufacturer’s un-amended sales literature (Data Sheets), unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, and Brand and Model** 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 provisions of **ITB** Clause 3.1(a)(ii) and/or **GCC** Clause 2.1 (a)(ii).

2. Bidders are advised to use the latest GPPB forms for the following documents:
- Omnibus Sworn Statement
  - Performance Securing Declaration (if applicable)
  - Price Schedule for Goods Offered
  - Bid Form
  - Bid Securing Declaration

These forms can be accessed from the GPPB website: <https://www.gppb.gov.ph/downloadables.php>. Documents that are not in its updated/latest format shall be a ground for disqualification of the bidder.

**II. Preparation of Electronic Bid (for bidders who prefer electronic bid submission)**

- Scan per document** into Portable Document Format (PDF) and should be printable.
- Properly label all documents for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
3. Statement of Bidder's Single Largest Completed Contract	SLCC
4. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
5. Bid Security	Bid Security
6. Technical Specifications	Technical Specifications
7. SCHEDULE of Requirements/	Schedule of Requirements
8. Production and delivery schedule	
9. Manpower Requirements	Manpower Requirements
10. After Sales service/parts	After Sales
11. Omnibus Sworn Statement	Omnibus Sworn Statement
12. Audited Financial Statements	Audited Financial Statements
13. Net Financial Contracting Capacity	NFCC
14. Committed Line of Credit	CLC
15. Bid Form	Bid Form
16. Price Schedule	Price Schedule



3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII.

The second folder should contain all requirements under Financial Component checklist.

4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.

5. Email the 2 compressed folders to Mr. Leopoldo S. Escala Jr at [leopoldo.escala@vsu.edu.ph](mailto:leopoldo.escala@vsu.edu.ph) on or before the deadline.

**III. Changes in the Bidding Documents**

Original	
<p><b>Section I. Invitation to Bid</b></p> <p>5. A complete set of Bidding Documents may be acquired by interested Bidders on n 17 October – 08 November 2023 until 1:30 PM from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p>	<p><i>(Amendment)</i></p> <p>A complete set of Bidding Documents may be acquired by interested Bidders on n 17 October – 08 November 2023 until 1:30 PM from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means:</p> <p>The Bidders may deposit the payment for the bidding documents to the Visayas State University Landbank Account with the following details:</p> <p>Account Name: Visayas State University Fund 164 Account Number: <u>3572-1000-13</u></p> <p>Then send the deposit slip to <a href="mailto:leopoldo.escala@vsu.edu.ph">leopoldo.escala@vsu.edu.ph</a></p>
<p><b>Section II. Instructions to Bidders</b></p> <p>15. Sealing and Marking of Bids</p>	<p><i>(Additional Instructions)</i></p> <p>Bidders are requested to submit three (3) copies of its bid – 1 Original, Copy 1, and Copy 2.</p> <p>For filing purposes, the bidders are urged to use <b>Orange</b> envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.</p>



**IV. Revised List of Goods and Technical Specifications**

- Some Specifications were added (in red font) and/or deleted (in blue font)
- Some Quantities and Unit Prices (ABC) were changed

Item #	Description	Unit	Qty	Unit Price	Total Price
<b>1</b>	<b>13.6" Laptop, Liquid Retina Display, M2 Chip, 8GB RAM</b>	<b>unit</b>	<b>5</b>	<b>95,000.00</b>	<b>475,000.00</b>
	<i>M2 chip with 8-core CPU, 10-core GPU, 16-core Neural Engine</i>				
	<i>8GB unified memory</i>				
	<i>512GB SSD storage</i>				
	<i>13.6-inch Liquid Retina display with True Tone<sup>3</sup></i>				
	<i>1080p FaceTime HD camera</i>				
	<i>MagSafe 3 charging port</i>				
	<i>Two Thunderbolt / USB 4 ports</i>				
	<i>70W USB-C Power Adapter</i>				
	<i>Backlit Magic Keyboard with Touch ID - US English</i>				
<b>2</b>	<b>15.3" Laptop, Liquid Retina Display, M2 Chip, 16GB RAM</b>	<b>unit</b>	<b>2</b>	<b>110,000.00</b>	<b>220,000.00</b>
	<i>M2 chip with 8-core CPU, 10-core GPU, 16-core Neural Engine</i>				
	<i>16GB unified memory</i>				
	<i>512GB SSD storage</i>				
	<i>15.3-inch Liquid Retina display with True Tone<sup>3</sup></i>				
	<i>1080p FaceTime HD camera</i>				
	<i>MagSafe 3 charging port</i>				
	<i>Two Thunderbolt / USB 4 ports</i>				
	<i>70W USB-C Power Adapter</i>				
	<i>Backlit Magic Keyboard with Touch ID - US English</i>				
<b>3</b>	<b>3M RJ-45 Volition U.S. Faceplate face plate panel double port 2-Port IO Information Outlet plate</b>	<b>pc</b>	<b>20</b>	<b>150.00</b>	<b>3,000.00</b>
	<input checked="" type="checkbox"/> Original 3M				
	<input checked="" type="checkbox"/> IO Information Outlet plate				
	<input checked="" type="checkbox"/> Ensure easy fitting and smart presentation of the RJ45 jacks				
	<input checked="" type="checkbox"/> The Keystone mounting feature of the Jack may allow you to use other Keystone boxes or faceplates.				
	<input checked="" type="checkbox"/> High performance				
	<input checked="" type="checkbox"/> Brand new				
	<input checked="" type="checkbox"/> comes with 2 pcs screws				
	<input checked="" type="checkbox"/> Existing fleet of VSU Faceplate and should be compatible with existing keystone				
<b>4</b>	<b>3M Volition Cat6 8-Way Female Tool-less IO Information Outlet RJ45 Connector Keystone Mount</b>	<b>pc</b>	<b>38</b>	<b>350.00</b>	<b>13,300.00</b>
	<input checked="" type="checkbox"/> Original 3M				
	<input checked="" type="checkbox"/> IO Information Outlet				
	<input checked="" type="checkbox"/> Tool-less jack •				
	<input checked="" type="checkbox"/> Re-usable •				
	<input checked="" type="checkbox"/> Shallow Depth, Cable Entry from top or bottom •				



	☑Keystone Mounting •				
	☑Accepts both solid conductors from AWG 26 to 22 and stranded conductors •				
	☑Integral shutter Benefits •				
	☑Easy and quick to install •				
	☑Fast reliable connection in record time: 8 copper conductor wired in a single connection •				
	☑Quality of connection by design: not dependant on tool condition or operator skills				
	☑Consistent results •				
	☑Easier cable management •				
	☑No need to use a new jack if a wiring mistake is made •				
	☑More space and flexibility to ensure the cable minimum bend radius is never compromised •				
	☑Compatibility between Volition copper and fiber jacks and many other accessories on the market using the standard keystone mounting •				
	☑Compatible with all cables on the market and enables 'jack to plug' cables to be manufactured using stranded conductors •				
	☑Increased dust protection, especially during installation • No additional shuttering required on faceplates •				
	☑Higher port density •				
	☑Allows direct mounting into floor boxes •				
	☑An integral shutter protects the jack in the patch panel •				
	☑Should be compatible with the existing fleet of VSU faceplates				
<b>5</b>	<b>5 Units of Projector</b>	<b>lot</b>	<b>1</b>	<b>140,000.00</b>	<b>140,000.00</b>
	Specification:				
	Projection System Technology: RGB liquid crystal shutter projection system (3LCD), 3-chip technology				
	White Light Output (Normal/Eco):3,600 lm				
	Colour Light Output:3,600 lm				
	Resolution XGA, at least 1024 x 768,				
	Analog Input: D-Sub 15pin: 1				
	Digital Input: HDMI: 1				
	LCD: Native Resolution: XGA (1024 x 768)				
	Size: 0.55" (C2fine)				
	Light source: Type: 210W UHE				
	Life (Normal / Eco): 6,000 / 12,000 hours				
	Aspect Ratio:4:3				
	USB Interface: USB Type B: 1 (For Firmware Update, Copy OSD Settings)				
	Analog Input: D-Sub 15pin: 1				
	Digital Input: HDMI: 1				
<b>6</b>	<b>All-in-One Ink Tank Printer Wi-Fi Duplex with ADF</b>	<b>unit</b>	<b>2</b>	<b>21,000.00</b>	<b>42,000.00</b>
	☑Compact integrated tank design				
	☑Print speeds up to 15ipm for black and 8.0ipm for colour				
	☑Auto-duplex printing Fax and ADF capability / Ethernet &				
	☑Wi-Fi Direct				
	☑Borderless Printing up to A4 size				



	☑Spill-free ink refilling				
	☑Control Panel: 2.4 " Colour LCD Touch Panel				
<b>7</b>	<b>All-in-One Ink Tank Printer with ADF</b>	<b>unit</b>	<b>2</b>	<b>15,500.00</b>	<b>31,000.00</b>
<b>8</b>	<b>All-in-One-Printer</b>	<b>pc</b>	<b>1</b>	<b>11,000.00</b>	<b>11,000.00</b>
	<i>Inktank 3 in 1 Printer Continuous Ink with Scanner and Xerox</i>				
	<i>Ultra-low-cost printing: Save up to 90% on the cost of ink</i>				
	<i>Next generation ink filling system: Enjoy hassle and mess-free refills with enhanced ink bottles</i>				
	<i>Reliable results: Micro Piezo technology, Epson genuine ink, warranty</i>				
	<i>3-in-1:Print, copy &amp; scan and borderless 10x15cm photo printing</i>				
	<i>Print Resolution: 5760 x 1440 DPI</i>				
	<i>Print Speed: 10 pages/min Monochrome, 5 pages/min Colour</i>				
	<i>5760 x 1400 DPI</i>				
	<i>Compatible: Mac OS 10.10.x, Mac OS 10.7.x, Mac OS 10.8.x, Mac OS 10.9.x, Mac OS X 10.6.8 or later, Windows 10,Windows 7,Windows 7x64, Windows 8, Windows 8 (32/64 bit), Windows 8.1, Windows 8.1 x64 Edition, Windows Vista, Windows Vista x64, Windows XP, Windows XP x64, XP Professional x64 Edition</i>				
<b>9</b>	<b>ATX Power Supply (500W)</b>	<b>pc</b>	<b>14</b>	<b>980.00</b>	<b>13,720.00</b>
	☑Single 6pin				
	☑24pin connector				
	☑Dual 4pin for board				
	☑4 sata supply				
	☑4 molex supply				
<b>10</b>	<b>Audio Mixer, 10-channel Mixer with USB and Effects</b>	<b>unit</b>	<b>1</b>	<b>30,000.00</b>	<b>30,000.00</b>
	<i>GigFX effects engine delivers 24 effects including reverbs, delays, and choruses</i>				
	<i>4 Mic preamps (XLR) deliver clear signal and 60dB of gain</i>				
	<i>Rugged design will stand up to the wear and tear of the road</i>				
	<i>3 Band EQ and 100Hz low-cut filter on all channels</i>				
	<i>Built-in channel compression</i>				
	<i>48-volt phantom power on all mic channels</i>				
	<i>24-bit/192kHz A/D for unmatched audio quality</i>				
	<i>USB for playback music and recording into your computer</i>				
	<i>Balanced XLR and balanced/unbalanced outputs</i>				
<b>11</b>	<b>Automatic Voltage Regulatory (AVR), 1500W, heavy duty</b>	<b>unit</b>	<b>3</b>	<b>5,000.00</b>	<b>15,000.00</b>
	☑Input: 220volts				
	☑Power: 1500watts				
	☑Output: 110-220 volts				
	☑Range voltage 120v-220 volts				
	☑Servo motor controlled				
<b>12</b>	<b>AVR, 500W (IC Controlled)</b>	<b>unit</b>	<b>7</b>	<b>500.00</b>	<b>3,500.00</b>
	☑Power Output: 500 W				
	☑Power Factor Correction (PFC): Active PFC with Value of 0.98				
	☑Fan Type: 1 x 120 mm Smart and Silent Fan Control 22 dBA				
	☑Safety Standards: FCC, CB, CCC, TUV, CE, C-tick, EMI, EMC, S-Intertek, CPT-AB15				





<b>13</b>	<b>Battery Charger for 9 Volts Battery</b>	<b>pc</b>	<b>1</b>	<b>400.00</b>	<b>400.00</b>
	<i>For 9 volts rechargeable batteries *Charges 2x rechargeable batteries (9 volts) at the same time\</i>				
	<i>*With 110v &amp; 220v setting</i>				
	<i>Compatible with Nickel-Cadmium &amp; Nickel-Metal Hydride rechargeable batteries</i>				
<b>14</b>	<b>Battery, Li-ion EN-EL5 for Camera Coolpix P520</b>	<b>pc</b>	<b>1</b>	<b>1,000.00</b>	<b>1,000.00</b>
	<i>good quality</i>				
	<i>Fit for camera coolpix P520</i>				
	<i>Rechargeable</i>				
	<i>3.7V</i>				
	<i>1100mAh</i>				
<b>15</b>	<b>Canon Cartridge 054 Toner - Black</b>	<b>pc</b>	<b>1</b>	<b>4,600.00</b>	<b>4,600.00</b>
	<i>For Canon Generic UFR II Printer Model: LBP621C</i>				
	<i>Color: Black</i>				
<b>16</b>	<b>Canon Cartridge 054 Toner - Magenta</b>	<b>pc</b>	<b>1</b>	<b>4,600.00</b>	<b>4,600.00</b>
	<i>For Canon Generic UFR II Printer Model: LBP621C</i>				
	<i>Color: Magenta</i>				
<b>17</b>	<b>Canon Cartridge 054 Toner - Yellow</b>	<b>pc</b>	<b>1</b>	<b>4,600.00</b>	<b>4,600.00</b>
	<i>For Canon Generic UFR II Printer Model: LBP621C</i>				
	<i>Color: Yellow</i>				
<b>18</b>	<b>Canon Cartridge 054 Toner-Cyan</b>	<b>pc</b>	<b>1</b>	<b>4,600.00</b>	<b>4,600.00</b>
	<i>For Canon Generic UFR II Printer Model: LBP621C</i>				
	<i>Color: Cyan</i>				
<b>19</b>	<b>Canon Pixma Ink Bottle,GI-71(Black, Cyan, Magenta, Yellow)</b>	<b>set</b>	<b>5</b>	<b>2,500.00</b>	<b>12,500.00</b>
	<i>Black - 135ml per bottle</i>				
	<i>Colored - 70ml per bottle</i>				
	<i>Set includes all four colors</i>				
	<i>Compatible with: Canon Pixma G1020 Canon Pixma G2020 Canon Pixma G3020 Canon Pixma G3060</i>				
<b>20</b>	<b>Computer Keyboard USB</b>	<b>pc</b>	<b>4</b>	<b>400.00</b>	<b>1,600.00</b>
	<input checked="" type="checkbox"/> <i>Standard Keyboard with 104 Keys</i>				
	<input checked="" type="checkbox"/> <i>USB Connection</i>				
	<input checked="" type="checkbox"/> <i>Low Profile Key Caps</i>				
	<input checked="" type="checkbox"/> <i>Minimum Key Noise</i>				
	<input checked="" type="checkbox"/> <i>Laser Printing for Key Layout</i>				
	<input checked="" type="checkbox"/> <i>Spill Resistant Design</i>				
<b>21</b>	<b>Computer Monitor 21.5", VA</b>	<b>pc</b>	<b>1</b>	<b>6,500.00</b>	<b>6,500.00</b>
	<i>Size: 21.5"</i>				
	<i>Panel Type: VA</i>				
	<i>Resolution: 1920x1080 (FHD)</i>				
	<i>Refresh Rate: 75Hz</i>				
	<i>Response Time: 5MS</i>				
	<i>Interface: VGA, HDMI</i>				
	<i>With a slim and 3-sided frameless design</i>				
	<i>Flicker Free and Low Blue Mode eye protection technology</i>				
	<i>VESA mount compatibility</i>				



<b>22</b>	<b>Computer Monitor 24", IPS, Bezel-less Full HD Monitor</b>	<b>set</b>	<b>2</b>	<b>7,000.00</b>	<b>14,000.00</b>
	☑Panel Type: IPS				
	☑Brightness(Typical): 250cd/m <sup>2</sup>				
	☑Brightness(Min): 200cd/m <sup>2</sup>				
	☑Contrast Ratio Static: 1000:1(typical)				
	☑Dynamic Contrast Ratio: MegaFlat				
	☑Resolution: 1920x1080				
	☑Response Time: 5ms(GTG)				
	☑Max Color Support: Max 16.7M				
	☑Max Refresh Rate: Max 75Hz				
	☑Interface: D-sub(x1), HDMI(x1)				
<b>23</b>	<b>Computer Printer 3-in-1</b>	<b>unit</b>	<b>9</b>	<b>12,500.00</b>	<b>112,500.00</b>
	☑with CIS Filled with Inks				
	☑Compact integrated tank design				
	☑High yield ink bottles				
	☑Spill-free, error-free refilling				
	☑Wi-Fi, Wi-Fi Direct				
	☑Borderless printing up to 4R				
<b>24</b>	<b>Computer Printer, All-in-One/Multifunction Colored-Ink Tank</b>	<b>unit</b>	<b>12</b>	<b>14,000.00</b>	<b>168,000.00</b>
	☑Ultra-low-cost printing: Print up to 4,500 pages in black and 7,500 in colour				
	☑Next generation ink filling system: Enjoy hassle and mess-free refills with the enhanced ink bottles				
	☑Wi-Fi, Wi-Fi Direct & apps: Print from mobile devices				
	☑3-in-1: Print, copy & scan and borderless photo printing				
	☑Nozzle Configuration: 180 Nozzles Black, 59 Nozzles per Color				
	☑Minimum Droplet Size: 3 pl, With Variable-Sized Droplet Technology				
	☑Ink Technology: Dye Ink				
	☑Printing Resolution: 5,760 x 1,440 DPI				
<b>25</b>	<b>CPU (Central Processing Unit)</b>	<b>unit</b>	<b>3</b>	<b>15,000.00</b>	<b>45,000.00</b>
	☑AMD A10-8770 Processor <i>or higher</i>				
	☑Motherboard compatible with the processor				
	☑Kingston 4GB DDR4-2666 Memory <i>or higher</i>				
	☑CPU Casing w/ PSU				
	☑256GB SSD				
<b>26</b>	<b>DDR3 4GB SO - DIMM 2666 Mhz</b>	<b>unit</b>	<b>4</b>	<b>1,500.00</b>	<b>6,000.00</b>
<b>27</b>	<b>DESKTOP (BRANDED)</b>	<b>set</b>	<b>6</b>	<b>80,000.00</b>	<b>480,000.00</b>
	Motherboard, Processor Intel core i7 12gen.				
	RAM at least 16gb				
	Hard drive SSD M2 at least 500gb				
	Led Monitor 21				
	usb keyboard & mouse				
	AVR or UPS.				
	With Licensed Windows 11 <i>Home</i> and MS Office 2016 <i>Business</i>				
<b>28</b>	<b>Desktop Computer (i7), 11th Gen, 8GB RAM</b>	<b>set</b>	<b>2</b>	<b>65,000.00</b>	<b>130,000.00</b>
	☑Processor: Intel® Core™ i7-11700 or higher				





	☑Chipset: Intel®H510 with ultradurable capacitors				
	☑Graphics: Intel® UHD Graphics 750				
	☑Memory: at least 8 GB Dual Channel, DDR4 at 3200MHz				
	☑Expansion Slots: 1 x M.2, 2 x PCI-e x 1, 1 x PCI-e x 16				
	☑SATA: 4 x SATA 6Gb/s *1				
	☑Storage: at least 250 GB M.2 SSD				
	☑Operating System: Genuine Windows 10 Home <i>or higher</i>				
	☑Power Supply: at least 500 W Peak with ATX case				
	☑Monitor: 24" LED IPS Full HD				
	☑Keyboard and Mouse				
<b>29</b>	<b>Desktop Computer (w/o Monitor), Core i3 11th Gen or higher</b>	<b>unit</b>	<b>4</b>	<b>24,000.00</b>	<b>96,000.00</b>
	☑Processor: Intel Core i3-11300 (4 cores /8 threads) <i>or higher</i>				
	☑Motherboard: Intel H510M Ultra Durable motherboard, Gaming LAN, Anti-Sulfur Resistor, LGA-1200				
	☑Memory: 8GB DDR4 2933 DIMM Desktop Memory <i>or higher</i>				
	☑SSD: 240GB NVMe <i>or higher</i>				
	☑Casing with Power Supply				
	☑Operating System: Genuine Windows 10 Home (OEM)				
	☑w/ USB Keyboard and Mouse				
<b>30</b>	<b>Desktop Computer, 12Gen Core i5, 16GB RAM, RTX 3050 no Monitor</b>	<b>unit</b>	<b>1</b>	<b>49,000.00</b>	<b>49,000.00</b>
	☑Processor: Intel® i5-12400F Total Cores: 6, Threads: 12, Max Turbo Frequency: 4.40Ghz, Performance Core Base Frequency: 2.5Ghz, Cache: 18MB <i>or higher</i>				
	☑Motherboard: Intel® H610 Chipset for 12th Gen Intel® Core™ Series Processors, Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs, 6+1+1 Hybrid Digital VRM Design, Intel® GbE LAN, NVMe PCIe 3.0 x4 M.2, High Quality Audio Capacitors and Audio Noise Guard, mATX form factor <i>or higher</i>				
	☑RAM: 16GB DDR4 3200 MHz CL16, Intel® XMP-ready and XMP Certified, Low-profile heat spreader design <i>or higher</i>				
	☑SSD: 512 GB M.2 2280 Form Factor PCIe Gen3x4 Interface, read up to :1700 MB, write up: 1550 MB/s <i>or higher</i>				
	☑Casing: mATX/ATX casing with transparent acrylic side panels and Cooler Fan Support: front panel 3*120mm/top 2*120mm/rear 1*120mm				
	☑Graphics Processor: NVIDIA® GeForce RTX™ 3050,Bus Standard: PCI Express 4.0				
	☑OpenGL: OpenGL®4.6, Video Memory: 8GB GDDR6				
	☑PSU:550w, True Rated Power Supply 80 plus Bronze Rated PSU for Micro ATX and ATX casing <i>or higher</i>				
<b>31</b>	<b>Desktop Computer, All-in-one (AIO), Pentium Silver, 4GB RAM</b>	<b>unit</b>	<b>1</b>	<b>27,000.00</b>	<b>27,000.00</b>
	Intel Pentium Silver J5040 2.0GHz up to 3.20GHz Processor <i>or higher</i>				
	4GB DDR4 Memory <i>or higher</i>				
	1TB 2.5" SATA HDD <i>or higher</i>				
	21.5" FHD 1920x1080 IPS Display (non-touch) <i>or higher</i>				



	Intel Graphics				
	802.11AC WiFi + BT   720P HD Camera				
	HDMI out 1.4 Port				
	Windows 10				
<b>32</b>	<b>Desktop Computer, Assembled, 12th Gen Core i5, SDD and HDD</b>	<b>set</b>	<b>2</b>	<b>49,000.00</b>	<b>98,000.00</b>
	☑Processor: Intel® Core i5 12th gen with Intel® UHD Graphics 730 or higher				
	☑Motherboard :Intel® H610 Chipset for 12th Gen Intel® Core™ Series Processors, Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs, 6+1+1 Hybrid Digital VRM Design, Intel® GbE LAN, NVMe PCIe 3.0 x4 M.2, High Quality Audio Capacitors and Audio Noise Guard, mATX form factor or higher				
	☑RAM: 16GB DDR4 3200 Mhz or higher				
	☑SSD: 512 GB NVMe PCIe Gen 3x4				
	☑HDD: 1 TB 7200 RPM				
	☑PSU: 650w 80 plus Bronze Certified				
	☑Casing: mATX Casing with transparent acrylic side panel				
	☑24" IPS monitor 72% NSTC color gamut with 75Hz refresh rate				
	☑Keyboard and Mouse Combo: Spill-resistant design with up to Up to 5 million keystrokes (excludes number lock key) keyboard and full-sized ambidextrous optical mouse				
	☑Operating system: Genuine Windows 11				
<b>33</b>	<b>Desktop Computer, with Monitor, Core i5 12th Gen, 8GB RAM</b>	<b>set</b>	<b>5</b>	<b>49,000.00</b>	<b>245,000.00</b>
	☑Processor: 12th Generation Intel® Core™ i5-12400 Processor(2.50 GHz up to 4.40 GHz) or higher				
	☑Motherboard: Intel® H610 Express Chipset Micro ATX Motherboard, with 6+1+1 Hybrid Digital VRM, High quality capacitors and Anti-sulfur resistors or higher				
	☑Operating System: Genuine Windows 11 Home 64				
	☑Memory: 8 GB DDR4-3200MHz (UDIMM) or higher				
	☑Graphics: Integrated Graphics				
	☑SSD: 256 GB SSD M.2 2280 PCIe or higher				
	☑Casing: mATX casing				
	☑Power supply: at least 450W, True Rated 80+ Bronze				
	☑Monitor: 24" FHD (1920 x 1080) IPS Monitor, NTSC 72%, 5ms response time, 60Hz				
<b>34</b>	<b>Desktop Monitor, 24" IPS, 75Hz</b>	<b>unit</b>	<b>1</b>	<b>8,500.00</b>	<b>8,500.00</b>
	Size (Inch) 23.8Size (cm) with narrow bezel				
	Resolution: 1920 x 1080				
	Panel Type: IPS				
	Aspect Ratio: 16:9				
	Pixel Pitch: 0.2745 x 0.2745 mm				
	Brightness (Min.): 200 cd/m <sup>2</sup> Brightness (Typ.) 250 cd/m <sup>2</sup>				
	Color Gamut (Typ.): NTSC 72% (CIE1931)				
	Color Depth (Number of Colors): 16.7M				
	Contrast Ratio (Min.): 600:1				
	Contrast Ratio (Typ.): 1000:1				



	Response Time: 5ms (GtG at Faster)				
	Viewing Angle (CR≥10): 178°(R/L), 178°(U/D)				
	Surface Treatment: Anti Glare				
	Connectivity: DSUB, HDMI				
	HDMI (Max. Resolution at Hz): 1920 x 1080 @ 75Hz				
35	<b>DS3231 RTC High Precision Real-Time Clock Module</b>	pc	2	200.00	400.00
36	<b>DSLR Camera</b>	unit	1	80,000.00	80,000.00
	24.5MP FX-Format BSI CMOS Sensor and EXPEED 6 Processor				
	51-Point Multi-CAM 3500 II AF Sensor				
	UHD 4K Video Recording				
	273-Point Hybrid AF System				
	Body Design				
37	<b>DSLR Camera with lens and accessories</b>	unit	1	42,000.00	42,000.00
	20.2MP APS-C 'Dual Pixel CMOS AF' sensor				
	DIGIC 5+ image processor				
	ISO 100-12800 standard, 25600 expanded				
	7fps continuous shooting, burst depth 65 JPEG / 16 Raw				
	'Silent' shutter mode				
	1080p30 video recording, stereo sound via external mic				
	19-point AF system, all points cross-type, sensitive to -0.5 EV				
	63-zone iFCL metering system				
	98% viewfinder coverage, 0.95x magnification, switchable gridlines and electronic level display				
	Fully-articulated touchscreen, 1040k dot 3" ClearView II LCD, 3:2 aspect ratio				
	Single SD/SDHC/SDXC card slot				
	Built-in Wi-Fi				
	Single-axis electronic level				
	Built-in flash works as off-camera remote flash controller				
	AF microadjustment (can be set individually for up to 40 lenses, remembered by lens serial number)				
	In-camera High Dynamic Range and Multiple Exposure modes (JPEG-only)				
	'Creative Filter' image processing styles, previewed in live view				
38	<b>EPSON - BK-774 Ink</b>	btl	5	600.00	3,000.00
	For EPSON M200 Printer:				
	Color : Black				
	Ink - 774				
39	<b>Epson 001 ink, Black, 127ml, Genuine</b>	btls	78	600.00	46,800.00
40	<b>Epson 001 ink, Cyan, Genuine</b>	btls	37	350.00	12,950.00
41	<b>Epson 001 ink, Magenta, Genuine</b>	btls	36	350.00	12,600.00
42	<b>Epson 001 ink, Yellow, Genuine</b>	btls	34	350.00	11,900.00
43	<b>Epson 003 Ink Bottle for Epson L3150, Black</b>	btls	52	400.00	20,800.00
44	<b>Epson 003 Ink Bottle for Epson L3150, CYAN</b>	btls	29	400.00	11,600.00
45	<b>Epson 003 Ink Bottle for Epson L3150, MAGENTA</b>	btls	29	400.00	11,600.00
46	<b>Epson 003 Ink Bottle for Epson L3150, YELLOW</b>	btls	29	400.00	11,600.00



47	<b>Epson 188 Black, Cyan, Yellow &amp; Magenta Ink Set of 4 Colors</b>	sets	4	4,700.00	18,800.00
	<i>DURAbrite Ultra Ink</i>				
	<i>Max Economy for prints</i>				
	<i>Print up to A3+</i>				
	<i>Mobile printing with Epson Connect</i>				
	<i>For use on WF-7111 / WF-7611 / WF-7211 / WF-7711</i>				
	<i>Average page yield for black ink cartridge: 2,200 pages</i>				
	<i>Average page yield for colour ink cartridge: 1,100 pages</i>				
48	<b>External Hard Disk Drive (Portable, 1TB), USB 3.1</b>	unit	6	3,500.00	21,000.00
	☑Shock-absorbing				
	☑Interface: USB 3.1 (Max.5Gb/s)				
	☑Capacity: 1TB				
	☑Texture: Plastic/Rubber				
	☑Operating Voltage: DC 5V, 900mA				
	☑System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10, Mac OS X 10.6 or later, Linux Kernel 2.6 or later				
49	<b>External Hard Drive, 1 TB</b>	unit	10	3,000.00	30,000.00
	Capacity: 1TB				
	Connection interface: USB 2.0/3.0				
	Storage Media: 2.5" SATA HDD				
	Op. Voltage: USB DC 5V				
	Size :129.5mm x 82.4mm x 20.4mm				
	Weight: 216g				
50	<b>Flash Drive, 128GB, USB 3.0</b>	pc	5	1,500.00	7,500.00
	☑Capacity:128GB				
	☑Interface: USB 3.0				
	☑Speed: 100MB/s read, 10MB/s write				
51	<b>Flash Drive, at least 32GB USB 3.0</b>	pcs	12	800.00	9,600.00
52	<b>Hard Disk ST1000DM010 1TB 64MB Cache SATA 6.0Gb/s 3.5</b>	pcs	4	2,400.00	9,600.00
	ST1000DM010 1TB 64MB Cache SATA 6.0Gb/s 3.5				
53	<b>HDMI to HDMI cable</b>	piece	2	500.00	1,000.00
	☑chord 1.8 meter long;				
54	<b>Headphone, Professional, Studio Grade,</b>	unit	6	8,000.00	48,000.00
	☑Type: Closed-back dynamic				
	☑Driver Diameter: 40 mm				
	☑Frequency Response: 15 - 24,000 Hz				
	☑Maximum Input Power: 1,600 mW at 1 kHz				
	☑Sensitivity: 98 dB				
	☑Impedance: 35 ohms				
	☑Cable Includes two interchangeable cables: detachable 1.2 m - 3.0 m (3.9' - 9.8') coiled cable and detachable 3.0 m (9.8') straight cable				
	☑Cable - Detachable: Yes				
	☑Magnet: Neodymium				
	☑Voice Coil: CCAW (Copper-clad aluminum wire)				
	☑Folding/collapsible: Yes				



	☑Accessories Included Protective carrying pouch, 6.3 mm (1/4") screw-on adapter				
<b>55</b>	<b>Headset (Wired), Generic Over the Ear with mic</b>	<b>pc</b>	<b>1</b>	<b>500.00</b>	<b>500.00</b>
	☑Line is equipped with a rotary volume controller, one key Mic mute,				
	☑Frequency Range:20-20K(Hz)				
	☑Sensitivity:-52(dB)				
	☑Impedance:32(Ohm)				
	☑Speaker Diameter:40(mm)				
	☑Distortion Rate:0.8%				
	☑Plug Diameter:3.5mm				
<b>56</b>	<b>Headset with Noise Cancelling Mic</b>	<b>unit</b>	<b>3</b>	<b>1,800.00</b>	<b>5,400.00</b>
	☑Input Impedance: at least 32 Ohms				
	☑Sensitivity (headphone):at least 94 dBV/Pa +/- 3 dB				
	☑Sensitivity (microphone): -17 dBV/Pa +/- 4 dB				
	☑Frequency response (Headset): 20 Hz - 20 KHz				
	☑Frequency response (Microphone): 100 Hz - 10 KHz				
	☑Cable Length: at least 7 ft				
	☑Connections: USB-A compatible (1.1, 2.0, 3.0), USB port 1Type A port or adapter				
<b>57</b>	<b>Headset, Over Ear, wired</b>	<b>sets</b>	<b>4</b>	<b>750.00</b>	<b>3,000.00</b>
	☑Wearing Type: Over-ear				
	☑Microphone: Yes				
	☑Volume Control: Yes				
	☑One Key Mute Button: Yes				
	☑Microphone: Omnidirectional				
	☑Plug Type: 3.5mm				
	☑Speaker Diameter: 50mm				
	☑Receive Sensitivity: 101dB				
	☑Impedance: 32Ω				
	☑Frequency Response: 20-20kHz				
<b>58</b>	<b>HP Ink Cartridge 678 Black</b>	<b>pc</b>	<b>6</b>	<b>550.00</b>	<b>3,300.00</b>
<b>59</b>	<b>HP Ink Cartridge 678 Tricolor</b>	<b>pc</b>	<b>6</b>	<b>550.00</b>	<b>3,300.00</b>
<b>60</b>	<b>Ink Cartridge Pigment Ink For Epson WorkForce Pro WF-C878R, T05A1 T05A2 T05A3 T05A4, Printer Ink Bag</b>	<b>sets</b>	<b>2</b>	<b>7,500.00</b>	<b>15,000.00</b>
	Ink Cartridge Pigment Ink For Epson WorkForce Pro WF-C878R				
	T05A1 (BLACK)				
	T05A2 (CYAN)				
	T05A3 (MAGENTA)				
	T05A4 (YELLOW)				
<b>61</b>	<b>Ink Cartridge, HP704, black</b>	<b>pcs</b>	<b>6</b>	<b>595.00</b>	<b>3,570.00</b>
<b>62</b>	<b>Ink Cartridge, HP704, tri color</b>	<b>pcs</b>	<b>6</b>	<b>595.00</b>	<b>3,570.00</b>
<b>63</b>	<b>Ink HP GT51 Black (K), Genuine</b>	<b>btls</b>	<b>6</b>	<b>500.00</b>	<b>3,000.00</b>
<b>64</b>	<b>Ink HP GT52 Cyan (C), Genuine</b>	<b>btls</b>	<b>4</b>	<b>500.00</b>	<b>2,000.00</b>
<b>65</b>	<b>Ink HP GT52 Magenta (M), Genuine</b>	<b>btls</b>	<b>4</b>	<b>500.00</b>	<b>2,000.00</b>
<b>66</b>	<b>Ink HP GT52 Yellow (Y), Genuine</b>	<b>btls</b>	<b>4</b>	<b>500.00</b>	<b>2,000.00</b>
<b>67</b>	<b>Ink, Brother BT5000C Cyan</b>	<b>btls</b>	<b>25</b>	<b>500.00</b>	<b>12,500.00</b>
<b>68</b>	<b>Ink, Brother BT5000M Magenta</b>	<b>btls</b>	<b>25</b>	<b>500.00</b>	<b>12,500.00</b>





69	Ink, Brother BT5000Y Yellow	btls	25	500.00	12,500.00
70	Ink, Brother BTD60BK, Black	btls	25	500.00	12,500.00
71	Ink, Epson 001, Genuine Magenta 70ml, SKU: C13T03Y300	pcs	5	350.00	1,750.00
72	Ink, Epson 001, Genuine Yellow 70ml, SKU: C13T03Y400	pcs	5	350.00	1,750.00
73	Ink, Epson 001, SKU: Genuine Cyan 70ml, SKU: C13T03Y200	pcs	5	350.00	1,750.00
74	Ink, Epson 003, Genuine Black 65mL	btl	525	350.00	183,750.00
75	Ink, EPSON 003, Genuine Cyan 65mL	btl	238	350.00	83,300.00
76	Ink, EPSON 003, Genuine Magenta 65mL	btl	246	350.00	86,100.00
77	Ink, EPSON 003, Genuine Yellow 65mL	btl	236	350.00	82,600.00
78	Ink, EPSON T9481 XL for WF-C878R Printer, Black	tube	5	1,500.00	7,500.00
79	Ink, EPSON T9481 XL for WF-C878R Printer, Cyan	tube	5	1,500.00	7,500.00
80	Ink, EPSON T9481 XL for WF-C878R Printer, Magenta	tube	5	1,500.00	7,500.00
81	Ink, Epson, 001, Genuine Black 127ml, C13T03Y100	pcs	10	650.00	6,500.00
82	Ink, Epson, genuine (C) T664, 70 ml	pcs	50	350.00	17,500.00
83	Ink, Epson, genuine (M) T664, 70 ml	pcs	63	350.00	22,050.00
84	Ink, Epson, genuine, (BK) T664, 70 ml	pcs	108	350.00	37,800.00
85	Ink, Epson, genuine, (Y) T664, 70 ml	pcs	60	350.00	21,000.00
86	Ink. EPSON T9481 XL for WF-C878R Printer, Yellow	tube	5	1,500.00	7,500.00
87	Keyboard And Mouse Combo Bundle, USB powered	set	3	600.00	1,800.00
	☑Keyboard				
	◀Keycaps: A-Shape, Round Edge				
	◀Hotkeys: No				
	◀Character: Laser Engraving				
	◀Adjustable Keyboard Legs: Yes				
	◀Rating: 5 V / 30 mA				
	☑Mouse				
	◀Report Rate: 125 Hz				
	◀Sensor: Optical				
	◀Resolution: 1000 DPI				
	◀Rating: 5 V / 100 mA				
	◀Buttons No.: 3				
	◀Ergonomic Design: Symmetric				
	◀Size: Middle / Big Hands				
88	Labelling Printer	unit	1	8,500.00	8,500.00
	☑Technology: Thermal Transfer				
	☑Tape Width Capacity: at least 6, 9, 12, 18, 24 mm				
	☑Tape is humidity resistant, scratch resistant, temperature resistant, and waterproof				
	☑Connectivity: USB, Bluetooth				
	☑QR Code Generator: Capable				
	☑Barcodes: 14 types (Code 128, Code 39, Data Matrix, EAN-128, EAN-13, EAN-8, GS1-128, GS1-DataBar, ITF, MaxiCode, PDF417, QR Code, UPC-A, UPC-E)				
	☑Cutter: Automatic Full Cut Function				
	☑Power: AC or Battery				
	☑Compatibility: Windows Vista, 7, 8, 8.1, 10, Mac OSX 10.6 or later				





	☑Inclusions: 5 different sizes of compatible tapes				
<b>89</b>	<b>Laptop 14" (i3)</b>	<b>unit</b>	<b>1</b>	<b>38,000.00</b>	<b>38,000.00</b>
	☑Processor : Intel Core i3-1005G1 Processor 4M Cache, up to 3.40 GHz or higher				
	☑Operating System : Windows 10 Home				
	☑Memory : 4GB Onboard memory, 1 x SO-DIMM socket , total up to 8 GB SDRAM or higher				
	☑Display : 14.0" (16:9) LED-backlit HD (1366x768) 60Hz Anti-Glare Panel with 45% NTSC				
	☑Graphics : Integrated Intel UHD Graphics				
	☑Storage : 512GB PCIe Gen3 x2 SSD or higher				
	☑Networking : Integrated Wi-Fi 5 (802.11 ac) Bluetooth 5.0				
	☑Battery : 2 -Cell 32 Wh lithium-polymer battery				
<b>90</b>	<b>Laptop 14" (i5)</b>	<b>unit</b>	<b>2</b>	<b>49,500.00</b>	<b>99,000.00</b>
	☑Processor: Intel Core i5-1035G1 Processor 1.0 GHz 6M Cache, up to 3.60 GHz or higher				
	☑Operating system: Windows 10 Home				
	☑Memory: 4GB memory, 1 x SO-DIMM socket (for expansion) or higher				
	☑Display: 14.0" (16:9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC				
	☑Video Processor: NVIDIA GeForce MX330 , with 2GB GDDR5 VRAM or higher				
	☑Storage: 512GB PCIe Gen3 x2 SSD				
<b>91</b>	<b>Laptop Cooling Pad 14"</b>	<b>pc</b>	<b>1</b>	<b>500.00</b>	<b>500.00</b>
	1.one 14cm big LED light fan				
	2.metal mesh material				
	3. Powered by USB cable from laptop				
	4.Support size:12"-14"laptop				
	5.Color:black,				
<b>92</b>	<b>Laptop core i7</b>	<b>unit</b>	<b>6</b>	<b>84,000.00</b>	<b>504,000.00</b>
	Processor : 13th Generation Intel® Core™ i7-1360P Processor (E-cores up to 3.70 GHz P-cores up to 5.00 GHz) or higher				
	Operating System : Licensed Windows 11 Home Single Language 64 or higher				
	Memory : 16 GB LPDDR5-4800MHz or higher				
	Hard Drive : 1 TB SSD M.2 2280 PCIe Gen4 TLC or higher				
	Licensed MS Office				
	Graphics : Integrated Intel® Iris® Xe Graphics eligible				
	Battery : 4 Cell Li-Polymer				
	Bluetooth : Bluetooth® 5.1 or above				
	Pointing Device : ClickPad				
<b>93</b>	<b>Laptop Stand Lifting Riser Holder Aluminum Height/Angle</b>	<b>pc</b>	<b>3</b>	<b>1,500.00</b>	<b>4,500.00</b>
<b>94</b>	<b>Laptop, 14" (i7)</b>	<b>unit</b>	<b>1</b>	<b>75,000.00</b>	<b>75,000.00</b>
	☑Processor: Intel Core i7 10th generation or higher				
	☑Graphics: NVIDIA GeForce MX250 at least 2GB GDDR5				
	☑Memory: at least 8GB DDR4-2666				



	☑Storage: at least 256GB SSD M.2 + 1TB HDD				
	☑Display: 14" FHD (1920x1080) IPS 250nits Anti-glare				
	☑Touchscreen: None				
	☑Optical: None				
	☑Media Reader: 4-in-1 Card Reader				
	☑Ethernet: None				
	☑WLAN + Bluetooth				
	☑Camera: at least 720p				
	☑Microphone: at least 2x, Array				
	☑Operating System: licensed Windows 10 Home or Pro				
	☑Bundled Software: Microsoft Office Perpetual License				
	☑Repair and replacement should be at most 3 month from returning the unit				
	☑at least 3 years Warranty				
	☑FREE: Backpack				
<b>95</b>	<b>Laptop, 15.6", Full HD, Intel Core i7</b>	<b>unit</b>	<b>2</b>	<b>60,000.00</b>	<b>120,000.00</b>
	Display Size: 15.6 Full HD				
	Resolution: 1920 x 1080				
	Processor: Intel Core i7-1255U or higher				
	Memo: 16GB RAM or higher				
	Solid State Drive: 1TB SSD				
	Graphics Card: Nvidia MX550 2GB				
	Operating System: Windows 11				
	Microsoft Office Home and Students 2021				
	Net weight: 1.75kg				
	Gross Weight: 1.85kg				
<b>96</b>	<b>Laptop, Intel Core i5 10th Gen , 15.6" FHD</b>	<b>unit</b>	<b>1</b>	<b>45,000.00</b>	<b>45,000.00</b>
	☑Processor: Intel Core i5 10th gen processor or higher				
	☑Memory: 16GB DDR4 2400MHz or higher				
	☑Display: 15.6-inch full HD IPS 1920x1080 screen				
	☑Graphics card: NVIDIA Geforce MX350 2GB (GDDR5 video memory) or higher				
	☑SSD: 512GB NvME M2				
	☑Network: wireless network card dual-band dual-antenna 802.11.ax (support 5G network); Bluetooth Bluetooth5.0				
	☑Operating System: Genuine Windows 10				
<b>97</b>	<b>Laptop, Intel Core i5 11th Gen, 15.6" FHD</b>	<b>unit</b>	<b>2</b>	<b>45,000.00</b>	<b>90,000.00</b>
	☑Processor: 11th Gen Intel ® Core™ i5 or higher				
	☑Graphics: Intel® Iris® Xe Graphics				
	☑Display: 15.6" 1920x1080 resolution FHD IPS				
	☑Memory: 16GB DDR4 3200MHz or higher				
	☑Storage: 512GB M.2 SSD or higher				
	☑Keyboard and Touchpad: Not Backlight				
	☑Audio: Realtek Audio				
	☑Camera: 720P HD				
	☑Wireless Connectivity: Wi-Fi 5 and Bluetooth 4.0-4.2				
	☑Operating System: Genuine Windows 10				
<b>98</b>	<b>LCD Projector (XGA), 3LCD Technology</b>	<b>unit</b>	<b>5</b>	<b>25,000.00</b>	<b>125,000.00</b>



	☑Projection System Technology: RGB liquid crystal shutter projection system (3LCD), 3-chip technology				
	☑White Light Output (Normal/Eco):3,600 lm				
	☑Colour Light Output:3,600 lm				
	☑Resolution XGA, at least 1024 x 768,				
	☑Analog Input:D-Sub 15pin: 1				
	☑Digital Input:HDMI: 1				
	☑LCD:Native Resolution: XGA (1024 x 768)				
	☑Size: 0.55" (C2fine)				
	☑Lightsource:Type: 210W UHE				
	☑Life (Normal / Eco): 6,000 / 12,000 hours				
	☑Aspect Ratio:4:3				
	☑USB Interface:USB Type B: 1 (For Firmware Update, Copy OSD Settings)				
	☑Analog Input:D-Sub 15pin: 1				
	☑Digital Input:HDMI: 1				
<b>99</b>	<b>LCD Projector, XGA (1024x768)</b>	<b>unit</b>	<b>1</b>	<b>27,000.00</b>	<b>27,000.00</b>
	☑Projection Method: Front/rear/ceiling mount				
	☑Pixel Number: at least 786,432 dots (1024 x 768) x 3				
	☑Color Brightness: 3.600 lumen- 2.235 lumen (economy) In accordance with IDMS15.4				
	☑Aspect ratio: 4:3				
	☑Lamp Life: ECO Mode up to 5000 hrs				
	☑Normal Mode up to 4000 hrs				
	☑Projection Distance Wide/Tele: 1,8 m - 2,17 m ( 60 inch screen)				
	☑Keystone Correction: Manual				
	☑USB Plug 'n Play: Compatible w/ PC and MAC computers				
	☑Contrast Ratio: 15.000 : 1				
	☑Color Reproduction: 16.77 million color				
<b>100</b>	<b>LED Voltage Tester</b>	<b>unit</b>	<b>1</b>	<b>4,000.00</b>	<b>4,000.00</b>
	LED Voltage Tester				
	600V AC/DC, Continuity Check, Battery Powered				
	CAT III 100V, CAT IV 600				
<b>101</b>	<b>Microsoft Office Home &amp; Student 2019, 1 Perpetual License, Medialess</b>	<b>pc</b>	<b>1</b>	<b>7,500.00</b>	<b>7,500.00</b>
	☑One-time purchase for 1 PC or Mac				
	☑Classic 2019 versions of Word, Excel, and PowerPoint				
	☑Microsoft support included for 60 days at no extra cost				
	☑Licensed for home use				
<b>102</b>	<b>Mirrorless Camera, 24MP APS-C</b>	<b>unit</b>	<b>2</b>	<b>50,000.00</b>	<b>100,000.00</b>
	☑24.1MP APS-C CMOS Sensor				
	☑Digital Imaging Integrated Circuit (DIGIC) 8 Image Processor				
	☑UHD 4K and HD 720p120 Video Recording				
	☑Dual Pixel CMOS AF with Eye Detect AF				
	☑2.36m-Dot OLED Electronic Viewfinder				
	☑3.0" 1.04m-Dot Vari-Angle Touchscreen				
	☑Wi-Fi and Bluetooth; Webcam Capability				



	☑Extended ISO 51200, 10 fps Shooting				
	☑Combination 5-Axis Image Stabilization				
	☑Includes EF-M 15-45mm f/3.5-6.3 IS STM Lens				
<b>103</b>	<b>Mouse, Wired, Optical, USB</b>	<b>pc</b>	<b>5</b>	<b>210.00</b>	<b>1,050.00</b>
	☑USB Port Connectivity				
	☑Sensor: Optical				
	☑DPI: 1600				
	☑Work method: Wired				
	☑Buttons: Left button, middle button, right button				
	☑Scroll wheel direction: Two way				
	☑Design highlights: Easy installation. 1600 DPI high-definition tracking engine. Anti-slip scroll wheel. Full-size, ambidextrous design				
<b>104</b>	<b>PC monitor and CPU merged with OS, office, UPS, keyboard &amp; mouse, 3 in 1 printer</b>	<b>lot</b>	<b>3</b>	<b>95,000.00</b>	<b>285,000.00</b>
	1. Computer Monitor				
	Item Specification				
	Size: 21.5"				
	Panel Type: VA				
	Resolution: 1920x1080 (FHD)				
	Refresh Rate: 75Hz				
	Response Time: 5MS				
	Interface: VGA, HDMI				
	With a slim and 3-sided frameless design				
	Flicker Free and Low Blue Mode eye protection technology				
	VESA mount compatibility				
	2. UPS				
	Item Specification				
	☑Output Power Capacity: 550 Watts/1100 VA				
	☑Max Configurable Power: 550 Watts/1100 VA 2 years' warranty				
	☑Nominal Output Voltage: 230V				
	☑Output Connections:(2) IEC 320 C13 (Battery Backup) (4) Universal Receptacle (Battery Backup)				
	☑Nominal Input Voltage: 230V				
	☑At most 4 hours charging time				
	3. Keyboard And Mouse Combo Bundle, USB				
	Item Specification				
	☑Keyboard				
	◀Keycaps: A-Shape, Round Edge				
	◀Hotkeys: No				
	◀Character: Laser Engraving				
	◀Adjustable Keyboard Legs: Yes				
	◀Rating: 5 V / 30 mA				
	☑Mouse				
	◀Report Rate: 125 Hz				
	◀Sensor: Optical				
	◀Resolution: 1000 DPI				



	◀Rating: 5 V / 100 mA				
	◀Buttons No.: 3				
	◀Ergonomic Design: Symmetric				
	◀Size: Middle / Big Hands				
	4. CPU merge with OS and Offices				
	Item Specification				
	☑AMD A10-8770 Processor <i>or higher</i>				
	☑Motherboard compatible with the processor				
	☑Kingston 4GB DDR4-2666 Memory <i>or higher</i>				
	☑CPU Casing w/ PSU				
	☑256GB SSD				
	5. Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)				
	Item Specification				
	☑Tank Ink System				
	☑Printer Type: Print, Scan and Copy				
	☑Scanner Type: Flatbed colour image scanner				
	☑Sensor Type: CIS				
	☑Optical Resolution: 600 x 1200 dpi				
	☑Copy Speed: Maximum Copies from Standalone: 20 copies				
	☑Maximum Copy Size: A4, Letter				
	☑ISO 29183, A4 Simplex Flatbed (Black / Colour): Up to 7.0 ipm / 1.7 ipm				
	☑Max Copy Resolution: 300 x 300 dpi				
	☑Paper Handling: Up to 20 Sheets-Premium Glossy Photo Paper 10 Sheets-Envelope, 30 Sheets-Postcard				
	☑Output Capacity: Up to 30 sheets				
	☑A4 plain paper: 20 sheets, Premium Glossy Photo Paper				
	☑Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24")				
	☑Nozzle Configuration: 180 x 1 nozzles Black, 59 x 1 nozzles per colour (Cyan, Magenta, Yellow)				
	☑Print Direction: Bi-directional printing				
	☑Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology)5760 x 1440 dpi (with Variable-Sized Droplet Technology)				
	☑Minimum Ink Droplet Size: 3 pl				
105	<b>Power Supply, 700W Generic</b>	pc	2	700.00	1,400.00
	☑Max Output: 700watts				
	☑Input Voltage: 180-240v				
	☑Current: 5A				
	☑ATX PSU				
106	<b>Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)</b>	unit	2	11,000.00	22,000.00
	☑Tank Ink System				
	☑Printer Type: Print, Scan and Copy				
	☑Scanner Type: Flatbed colour image scanner				
	☑Sensor Type: CIS				
	☑Optical Resolution: 600 x 1200 dpi				
	☑Copy Speed: Maximum Copies from Standalone: 20 copies				
	☑Maximum Copy Size: A4, Letter				



	☑ISO 29183, A4 Simplex Flatbed (Black / Colour): Up to 7.0 ipm / 1.7 ipm				
	☑Max Copy Resolution: 300 x 300 dpi				
	☑Paper Handling: Up to 20 Sheets-Premium Glossy Photo Paper 10 Sheets-Envelope, 30 Sheets-Postcard				
	☑Output Capacity: Up to 30 sheets				
	☑A4 plain paper: 20 sheets, Premium Glossy Photo Paper				
	☑Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24")				
	☑Nozzle Configuration: 180 x 1 nozzles Black, 59 x 1 nozzles per colour (Cyan, Magenta, Yellow)				
	☑Print Direction: Bi-directional printing				
	☑Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology)5760 x 1440 dpi (with Variable-Sized Droplet Technology)				
	☑Minimum Ink Droplet Size: 3 pl				
<b>107</b>	<b>Printer, Wi-Fi Duplex All-in-One Ink</b>	<b>unit</b>	<b>3</b>	<b>16,000.00</b>	<b>48,000.00</b>
	Printer Type:Print, Scan, Copy				
	Print Method:On-demand inkjet (piezoelectric)				
	Printer Language:ESC/P-R, ESC/P Raster				
	Nozzle Configuration:180 x 1 nozzles Black, 59 x 1 nozzles per Colour (Cyan, Magenta, Yellow)				
	Maximum Resolution:5760 x 1440 dpi				
	Automatic 2-sided Printing:Yes (Up to A4)				
	Scanner Type:Flatbed colour image scanner				
	Sensor Type:CIS				
	Optical Resolution:1200 x 2400 dpi				
	USB:USB 2.0				
	Network:Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct				
	Network Protocol:TCP/IPv4, TCP/IPv6				
	LCD Screen:1.44" Colour LCD Screen				
<b>108</b>	<b>Rechargeable Wireless Keyboard and Mouse Set</b>	<b>unit</b>	<b>2</b>	<b>950.00</b>	<b>1,900.00</b>
	☑Rechargeable Office Wireless Keyboard and Mouse Set				
	☑Size: 284*121*16.mm				
	☑Weight: 280g				
	☑Connection method: USB receiver/Bluetooth				
<b>109</b>	<b>Scanner</b>	<b>unit</b>	<b>2</b>	<b>35,000.00</b>	<b>70,000.00</b>
	* Automate workflow with fast, two-sided scanning				
	* With 50-page ADF, 1,500-page daily duty cycle, and one-button shortcuts				
	* Can produce up to 40 images per minute1 with two-sided scanning and a 50-page automatic document feeder.				
	* Can scan pages up to 8.5 x 122 inches (21.6 cm x 309.9 cm) through the ADF,				
	* And can use the flatbed for bulky media.				
<b>110</b>	<b>SSD</b>	<b>pc</b>	<b>3</b>	<b>1,500.00</b>	<b>4,500.00</b>
	SSD 256GB for Desktop Computer;				
<b>111</b>	<b>Network-attached Storage (4 - Bay)</b>	<b>pc</b>	<b>1</b>	<b>36,000.00</b>	<b>36,000.00</b>
	CPU Model: Intel Celeron J4125				
	CPU Frequency: 4-core 2.0 (base) / 2.7 (burst) GHz				





	Hardware Encryption Engine (AES-NI)				
	System Memory: 2 GB DDR4 non-ECC				
	Total Memory Slots 1				
	Maximum Memory Capacity 6 GB (2 GB + 4 GB)				
	4 Drive Bays				
	2 M.2 Drive Slots (NVMe)				
	Compatible to Most Drive types (3.5" SATA HDD, 2.5" SATA SSD, M.2 2280 NVMe SSD)				
	Internal Drives : Btrfs   EXT4				
	External Drives : Btrfs   EXT4   EXT3   FAT   NTFS   HFS+   exFAT				
	Hot Swappable Drive				
	2 RJ-45 1GbE LAN Port				
	USB 3.2 Gen 1 Ports				
	3-year hardware warranty				
<b>112</b>	<b>Temperature Controller, Digital PID</b>	<b>set</b>	<b>2</b>	<b>1,500.00</b>	<b>3,000.00</b>
	Measuring accuracy: +/-0.5%FS				
	Cold-end compensation tolerance: +/-2 Celsius (can be modified by software in 0~50 Celsius)				
	Resolution: 14 bit				
	Sampling cycle: 0.5 Sec				
	Power : AC 100-240V 50/60HZ				
	Process value (PV), Setting value (SV)				
	PIN control (including ON/OFF, step-type PID and continuous PID)				
	Self-tuning control				
	Relay output: contact capacity 250V AC 3A (resistive load)				
	Proportional band (P): 0~full range (ON/OFF control when set to 0)				
	Detective temperature range: 0 to 400 Celsius				
	Insulation resistance: more than the 50M ohm(500V DC)				
	Insulation resistance : 1500V AC/min				
	Insulation resistance : Power Consumption Less than 10 VA				
	Service environment: 0~50 Celsius				
	environment with no corrosive gas 30~85% RH				
	Aluminum Alloy Heat Sink				
<b>113</b>	<b>Toner MP 2014H NRG Brand</b>	<b>btls</b>	<b>2</b>	<b>3,700.00</b>	<b>7,400.00</b>
	MP2014H Series/MP2700/MP2701;				
<b>114</b>	<b>Toner, NPG 67, Black for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine</b>	<b>pieces</b>	<b>2</b>	<b>8,400.00</b>	<b>16,800.00</b>
<b>115</b>	<b>Toner, NPG 67, Cyan for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine</b>	<b>pieces</b>	<b>2</b>	<b>10,500.00</b>	<b>21,000.00</b>
<b>116</b>	<b>Toner, NPG 67, Magenta for Canon C3320 Image Runner advance (photocopier, printer/scanner)machine</b>	<b>pieces</b>	<b>2</b>	<b>10,500.00</b>	<b>21,000.00</b>
<b>117</b>	<b>Toner, NPG 67, Yellow for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine</b>	<b>pcs</b>	<b>1</b>	<b>10,500.00</b>	<b>10,500.00</b>
<b>118</b>	<b>Transverse Armoured Stripping Knife 8-28MM Optic Stripper FTTH Armored Fiber Cable Slitter</b>	<b>pc</b>	<b>2</b>	<b>1,500.00</b>	<b>3,000.00</b>
	Measuring accuracy: +/-0.5%FS				



	Cold-end compensation tolerance: +/-2 Celsius (can be modified by software in 0~50 Celsius)				
	Resolution: 14 bit				
	Sampling cycle: 0.5 Sec				
	Power : AC 100-240V 50/60HZ				
	Process value (PV), Setting value (SV)				
	PIN control (including ON/OFF, step-type PID and continuous PID)				
	Self-tuning control				
	Relay output: contact capacity 250V AC 3A (resistive load)				
	Proportional band (P): 0~full range (ON/OFF control when set to 0)				
	Detective temperature range: 0 to 400 Celsius				
	Insulation resistance: more than the 50M ohm(500V DC)				
	Insulation resistance : 1500V AC/min				
	Insulation resistance : Power Consumption Less than 10 VA				
	Service environment: 0~50 Celsius				
	environment with no corrosive gas 30~85% RH				
	Aluminum Alloy Heat Sink				
<b>119</b>	<b>Tripod</b>	<b>unit</b>	<b>1</b>	<b>10,000.00</b>	<b>10,000.00</b>
	5.5 lb Capacity Flat Base Tripod Head				
	Aluminum 4-Section Tripod Legs				
	Fully Convertible to a Monopod				
	21.3 to 65" Height Range				
	Independent Pan and Tilt Locks				
	Rubber and Spiked Feet				
	Left/Right Pan Bar Rosette Mounts				
	Carry Case Included				
	Maximum Working Height: 65" / 165.1 cm				
<b>120</b>	<b>Ubiquiti Unifi HD Access Point 802.11 AC Wave 2 MU-MIMO Indoor (UAP-AC-HD)</b>	<b>unit</b>	<b>1</b>	<b>25,000.00</b>	<b>25,000.00</b>
	☑Networking Interface (2) 10/100/1000 Ethernet Ports Buttons Reset Power Method 802.3at PoE+ Supported Voltage Range 44 to 57VDC				
	☑Power Supply UniFi Switch (PoE) Power Save Supported Beamforming Supported Maximum Power Consumption 17W TX Power 2.4 GHz 5 GHz 6-25 dBm 6-25 dBm Antennas 2.4 GHz 5 GHz (2) Dual-Port, Dual-Polarity Antennas, 3 dBi each (2) Dual-Port, Dual-Polarity Antennas, 4 dBi each Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac/ac-wave2 Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES) 802.11w/PMF BSSID Up to 8				
	☑Radio Mounting Wall/Ceiling (Kits Included)				
	☑Operating Temperature -10 to 70° C (14 to 158° F)				
	☑Operating Humidity 5 to 95% Noncondensing				
	☑Certifications CE, FCC, IC Advanced Traffic Management VLAN 802.1Q Advanced QoS Per-User Rate Limiting Guest Traffic Isolation Supported WMM Voice, Video, Best Effort, and Background Concurrent Clients 1000+ Supported Data Rates (Mbps)Standard Data Rates 802.11a 6, 9, 12, 18, 24, 36, 48, 54				



	Mbps 802.11n 6.5 Mbps to 450 Mbps (MCS0 - MCS23, HT 20/40) 802.11ac 6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80) 58 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2, VHT 160) 802.11b 1, 2, 5.5, 11 Mbps 802.11g 6, 9, 12, 18, 24, 36, 48, 54Mbps				
	☑Should be compatible with the existing fleet of Unifi Access Points and Controller				
<b>121</b>	<b>Universal HDMI to VGA Adapter Cable, at least 1.8 meters</b>	<b>pc</b>	<b>3</b>	<b>300.00</b>	<b>900.00</b>
<b>122</b>	<b>UPS</b>	<b>unit</b>	<b>2</b>	<b>7,000.00</b>	<b>14,000.00</b>
	☑Output Power Capacity: 550 Watts/1100 VA				
	☑Max Configurable Power: 550 Watts/1100 VA 2 years' warranty				
	☑Nominal Output Voltage: 230V				
	☑Output Connections:(2) IEC 320 C13 (Battery Backup) (4) Universal Receptacle (Battery Backup)				
	☑Nominal Input Voltage: 230V				
	☑At most 4 hours charging time				
<b>123</b>	<b>UPS 800W ( for Computer)</b>	<b>unit</b>	<b>4</b>	<b>5,000.00</b>	<b>20,000.00</b>
	☑Charging time: At most 4 hours;				
<b>124</b>	<b>UPS Battery, Generic, 7.2Ah</b>	<b>pcs</b>	<b>10</b>	<b>1,000.00</b>	<b>10,000.00</b>
	Voltage: 12VCapacity: 7.2AhBattery Type: Sealed Lead Acid Maintenance Free				
<b>125</b>	<b>UPS, 1000 VA</b>	<b>unit</b>	<b>8</b>	<b>3,000.00</b>	<b>24,000.00</b>
	☑1000VA/600W capacity				
	☑Frequency Range: 60 Hz				
	☑Freq. Range (Batt. Mode): 60 Hz ± 1 Hz				
	☑Transfer Time: Typical 4-8 ms				
	☑Waveform (Batt. Mode): Simulated Sine Wave				
	☑Back-up Runtime: 10-15 mins				
	☑Voltage: 220 VAC				
	☑Voltage Range: 162-270 VAC				
<b>126</b>	<b>UPS, 650VA, Universal Sockets</b>	<b>pc</b>	<b>4</b>	<b>2,800.00</b>	<b>11,200.00</b>
	Output Power Capacity: 325 Watts/650VA				
	Output Frequency: 50/60 Hz +/-1 Hz				
	Output Connections: (2) Universal Receptacle				
	Nominal Input Voltage: 230V				
	Input Connections: NEMA 5-15P				
	Maximum Input Current: 5A				
	Battery Type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte leakproof				
	Recharging Time: 4 Hours				
<b>127</b>	<b>UPS, at least 500 w</b>	<b>pc</b>	<b>4</b>	<b>2,550.00</b>	<b>10,200.00</b>
	Recharging Time: at most 4 Hours;				
<b>128</b>	<b>VOIP Phone</b>	<b>unit</b>	<b>1</b>	<b>12,000.00</b>	<b>12,000.00</b>
	☑1-Line PoE+ SIP VOIP Phone SPA MAC address (IEEE 802.3) with lifetime warranty				
	☑IPv4 (RFC 791)Integrated web server provides web-based administration and configuration				
	☑Telephone keypad configuration via display menu/navigation				



<input type="checkbox"/>	Automated provisioning and upgrade via HTTPS, HTTP, TFTP			
<input type="checkbox"/>	Asynchronous notification of upgrade availability via NOTIFY			
<input type="checkbox"/>	Nonintrusive in-service upgrades			
<input type="checkbox"/>	Report generation and event logging			
<input type="checkbox"/>	Statistics transmitted in BYE message			
<input type="checkbox"/>	Syslog and debug server records: configurable per line			
<input type="checkbox"/>	Address Resolution Protocol (ARP)			
<input type="checkbox"/>	DNS: A record (RFC 1706), SRV record (RFC 2782)			
<input type="checkbox"/>	Dynamic Host Configuration Protocol (DHCP) client (RFC 2131)			
<input type="checkbox"/>	Internet Control Message Protocol (ICMP) (RFC 792)			
<input type="checkbox"/>	TCP (RFC 793)			
<input type="checkbox"/>	User Datagram Protocol (UDP) (RFC 768)			
<input type="checkbox"/>	Real-Time Transport Protocol (RTP) (RFC 1889, 1890)			
<input type="checkbox"/>	Real-Time Control Protocol (RTCP) (RFC 1889)			
<input type="checkbox"/>	Differentiated Services (DiffServ) (RFC 2475)			
<input type="checkbox"/>	Type of service (ToS) (RFC 791, 1349)			
<input type="checkbox"/>	VLAN tagging 802.1p/Q: Layer 2 quality of service (QoS)			
<input type="checkbox"/>	Simple Network Time Protocol (SNTP) (RFC 2030) SIP version 2 (RFC 3261, 3262, 3263, 3264)			
<input type="checkbox"/>	SPCP with the Cisco Unified Communications 500 Series			
<input type="checkbox"/>	SIP proxy redundancy: dynamic via DNS SRV, A records			
<input type="checkbox"/>	Reregistration with primary SIP proxy server			
<input type="checkbox"/>	SIP support in NAT networks (including STUN)			
<input type="checkbox"/>	SIPFrag (RFC 3420)			
<input type="checkbox"/>	Secure (encrypted) calling via SRTP			
<input type="checkbox"/>	Codec name assignment			
<input type="checkbox"/>	Voice algorithms:			
<input type="checkbox"/>	G.711 (A-law and $\mu$ -law)			
<input type="checkbox"/>	G.726 (16/24/32/40 kbps)			
<input type="checkbox"/>	G.729 A			
<input type="checkbox"/>	G.722			
<input type="checkbox"/>	Dynamic payload support			
<input type="checkbox"/>	Adjustable audio frames per packet			
<input type="checkbox"/>	Dual-tone multifrequency (DTMF), in-band and out-of-band (RFC 2833) (SIP INFO)			
<input type="checkbox"/>	Flexible dial plan support with interdigit timers			
<input type="checkbox"/>	IP address/URI dialing support			
<input type="checkbox"/>	Call progress tone generation			
<input type="checkbox"/>	Jitter buffer: adaptive			
<input type="checkbox"/>	Frame loss concealment			
<input type="checkbox"/>	Comfort Noise Generation (CNG)			
<input type="checkbox"/>	Voice activity detection (VAD) with silence suppression			
<input type="checkbox"/>	Attenuation/gain adjustments			
<input type="checkbox"/>	VMWI - Voicemail Waiting Indicator, via NOTIFY, SUBSCRIBE			
<input type="checkbox"/>	Caller ID support (name and number)			
<input type="checkbox"/>	Third-party call control (RFC 3725)			
<input type="checkbox"/>	Should be compatible with existing fleet of VSU IP Phones			



<b>129</b>	<b>VoIP, Telephone</b>	<b>unit</b>	<b>2</b>	<b>15,000.00</b>	<b>30,000.00</b>
	<i>Features</i>				
	<i>Display: White backlit, greyscale, 3.5-inch (396x162 pixels) display</i>				
	<i>Call Appearance:16 voice lines</i>				
	<i>Fixed Feature Buttons: Messaging, Service, Directory, Hold/Resume, Transfer, Conference, Volume Control, Speakerphone, Headset, and Mute</i>				
	<i>Navigation Keys: Two-way navigation and select keys</i>				
	<i>Programmable Line/Feature Keys: 16 programmable keys that support either lines (such as directory numbers), or call features (such as speed dialing).</i>				
	<i>Programmable Softkeys: 4 buttons</i>				
	<i>Button Module Expansion: No</i>				
	<i>Speakerphone: Includes high-quality, 2-way speakerphone</i>				
	<i>Audio: Wideband audio enhances clarity with the handset, speaker, or headset</i>				
	<i>Codecs: G.711 (A-law and m-law), G.722.2, G.722, G.729ab, ILBC, iSAC, OPUS, Narrowband Opus DTMF: In-band, out-of-band (RFC 2833), and SIP INFO Early Media and Preconditions MOS Score Reporting (Telchemy)</i>				
	<i>Wall-Mountable: Yes, requires optional Cisco 7800 Series Wall Mount Kit</i>				
	<i>Ethernet Connectivity: Dual Ethernet (10/100) line interface (PC Pass Through &amp; Network Connection)</i>				
	<i>Headset Port: Includes RJ9 headset port with EHS support</i>				
	<i>Message Waiting Indicator: Yes</i>				
	<i>Adjustable Tilt Display: No</i>				
	<i>Network Security: Certificates, Image authentication, Device authentication, File authentication, Signaling authentication, Media encryption using Secure Real-Time Transfer Protocol (SRTP) using AES-128, Signaling encryption using Transport Layer Security (TLS) Protocol using AES-128 or AES-256, Encrypted configuration files, 802.1X authentication, Cryptography</i>				
	<b>POWER REQUIREMENTS</b>				
	<i>Supports 802.3af Power-over-ethernet (PoE)</i>				
	<i>Can also be powered via optional power adapter if PoE is not available on your network (power supply sold separately – see accessories above)</i>				
	<i>System Compatibility</i>				
	<i>MUST have with Multiplatform Phone Firmware</i>				
	<i>Compatible with existing VSU fleet</i>				
<b>130</b>	<b>Web Camera for Laptop and Desktop</b>	<b>pcs</b>	<b>2</b>	<b>720.00</b>	<b>1,440.00</b>
	<input checked="" type="checkbox"/> <i>About 360 degrees, rotate up and down 45 degrees, you can adjust the angle.</i>				
	<input checked="" type="checkbox"/> <i>With clips for laptops and desktops.</i>				
	<input checked="" type="checkbox"/> <i>Sensor pixels: 2 million</i>				
	<input checked="" type="checkbox"/> <i>Interface: USB 2.0</i>				
	<input checked="" type="checkbox"/> <i>Frame rate: 30 FPS</i>				
	<input checked="" type="checkbox"/> <i>Image sensor: CMOS</i>				





	☑Brightness/color: automatically adjusts				
	☑Additional features: built-in microphone				
<b>131</b>	<b>Wifi Access Point (Existing fleet of VSU Access Points)</b>	<b>unit</b>	<b>3</b>	<b>12,000.00</b>	<b>36,000.00</b>
	UAP-nanoHD				
	Dimensions: 160 x 160 x 32.65 mm (6.30 x 6.30 x 1.29")				
	Weight: 300 g (10.6 oz)				
	With Mounting Kits: 315 g (11.1 oz)				
	Networking Interface: (1) 10/100/1000 Ethernet Port				
	Buttons: Reset				
	Power Method: 802.3af PoE				
	Power Supply: UniFi Switch (PoE)				
	Power Save: Supported				
	Beamforming: Supported				
	Maximum Power Consumption: 10.5W				
	Supported Voltage Range: 44 to 57VDC				
	TX Power				
	2.4 GHz: 23 dBm				
	5 GHz: 26 dBm				
	MIMO				
	2.4 GHz: 2x2				
	5 GHz: 4x4				
	Radio Rates				
	2.4 GHz: 300 Mbps				
	5 GHz: 1733 Mbps				
	Antennas				
	2.4 GHz: (2) Single-Port, Single-Polarity Antennas, 2.8 dBi each				
	5 GHz: (2) Single-Port, Dual-Polarity Antennas, 3 dBi each				
	Wi-Fi Standards: 802.11 a/b/g/n/r/k/v/ac/ac-wave2				
	Wireless Security: WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES), 802.11w/PMF				
	BSSID: 8 per Radio				
	Mounting: Wall/Ceiling (Kits Included)				
	Operating Temperature: -10 to 70 C (14 to 158 F)				
	Operating Humidity: 5 to 95% Noncondensing				
	Certifications: CE, FCC, IC				
	Advanced Traffic Management				
	VLAN: 802.1Q				
	Advanced QoS: Per-User Rate Limiting				
	Guest Traffic Isolation: Supported				
	WMM: Voice, Video, Best Effort, and Background				
	Concurrent Clients: 200+				
	Supported Data Rates (Mbps)				
	Standard Data Rates				
	802.11a 6,9,12,18,24,36,48,54 Mbps				
	802.11n 6.5 Mbps to 300 Mbps (MCS0-MCS15, HT 20/40)				





	802.11ac	6.5 Mbps to 1.7 Gbps (MCS0-MCS9 NSS1/2/3/4, VHT 20/40/80)				
		58 Mbps to 1.7 Gbps (MCS0-MCS9 NSS1/2, VHT 160)				
	802.11b	1, 2, 5.5, 11 Mbps				
	802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps				
<b>132</b>	<b>WiFi router</b>		<b>unit</b>	<b>1</b>	<b>2,500.00</b>	<b>2,500.00</b>
	☑Wired standard: IEEE802.3, IEEE802.3u					
	☑Interface: 10 / 100Mbps WAN port * 1 10/100Mbps LAN ports*3					
	☑Antenna: 6dBi external dual-frequency omnidirectional antenna * 5					
	☑Button: WiFi on / off * 1, WPS / Reset button * 1					
<b>133</b>	<b>Wireless Optical Mouse</b>		<b>pc</b>	<b>1</b>	<b>1,000.00</b>	<b>1,000.00</b>
	☑Adjustable 500/1000 DPI high-definition tracking engine					
	☑Reliable 2.4GHz wireless connection, perfect for anti-jamming					
	☑Supports 4D scroll wheel and optical buttons No installation software or drivers required: plug and play					
	☑Powered by AA alkaline batteries, you can use this mouse with only one battery					
<b>134</b>	<b>Drone (Professional Quadcopter With 5.5" Screen)</b>		<b>unit</b>	<b>2</b>	<b>260,000.00</b>	<b>520,000.00</b>
	Ready To Fly.					
	Obstacle sensing: 5-way.					
	Obstacle avoidance: 4-way.					
	Redundant sensors: obstacle avoidance, dual compasses, dual IMUs.					
	Range: 4.3 miles.					
	Maximum flight time: 30 minutes.					
	Top speed: 45 mph.					
	Big 1-inch sensor.					
	5.5-inch video monitor for controller.					
	4K video @ 60fps.					
	20MP stills, up to 14fps bursts.					
	Mechanical shutter that eliminates rolling distortion.					
	Wireless compatibility					
	Active-Track for locking onto and tracking subjects.					
<b>135</b>	<b>USB 3.0 Hub, 7 Ports</b>		<b>unit</b>	<b>2</b>	<b>1,500.00</b>	<b>3,000.00</b>
	☑USB 3.0 HUB, 7 Ports, High Speed Strong Power USB HUB 3.0					
	☑Up to 5Gbps Super-Speed, High speed 480Mbps, Full Speed 12Mbps, and Low Speed 1.5Mbps Transmission					
	☑Support 2TB large capacity HDD					
	☑Plug and Play, No driver required					
	☑compatible with windows series, Mac OS, Linux,					
	☑Interface independent switch design					
	☑DC 5V power supply port					
<b>136</b>	<b>Computer HD Webcam</b>		<b>pc</b>	<b>5</b>	<b>4,000.00</b>	<b>20,000.00</b>
	☑1080P Full HD Webcam					
	☑Lens: HD lens					



	☑Sensor Type: CMOS				
	☑Video Format: AVI				
	☑Frame Rate: at least 30FPS				
	☑Drive Type: free drive. Plug and play				
	☑Photo Format: BMP JPG				
	☑Resolution: 1920 * 1080 P				
	☑Output Format: M-JPEG				
	☑Interface Type: USB2.0				
	☑Microphone: Built-in microphone				
	☑Focusing Range: 20mm				
<b>137</b>	<b>Computer Motherboard - H310M H 2.0</b>	<b>pc</b>	<b>1</b>	<b>4,000.00</b>	<b>4,000.00</b>
<b>138</b>	<b>Multimedia Speakers 2.0, 6W, USB powered</b>	<b>pair</b>	<b>3</b>	<b>600.00</b>	<b>1,800.00</b>
	Total Output Power (RMS): 6W				
	Satellite wattage (RMS):3W				
	Satellite Driver : Size : 2.5"				
	Frequency Range: 70-20000 Hz				
	Interface: 3.5mm jack				
	Housing material : ABS				
	Controls: Overall Volume				
	Power Supply: via USB, 5V				
<b>139</b>	<b>Thermal Receipt Printer</b>	<b>unit</b>	<b>1</b>	<b>5,500.00</b>	<b>5,500.00</b>
	Receipt Ticket Thermal Printer				
<b>140</b>	<b>UPS 1200VA-650W Uninterruptible Power Supply</b>	<b>unit</b>	<b>2</b>	<b>9,000.00</b>	<b>18,000.00</b>
	5 outlets (4 universal, 1 IEC 60320 C13), 1200VA/650W, AVR Technology, Surge Protection, Easy to use				
	Output Capacity: 1200VA/650W				
	Output (on battery): 220V-240V, 50/60Hz +/- 1Hz				
	Input Power: 220V-240V, 50/60Hz +/- 5Hz (auto sensing)				
	Surge: 273 J				
	Battery recharge time: 8 hours				
	No. of Outlets: 5 - 4 universal, 1 IEC 60320 C13				
	Dimension: 39 x 19 x 14 cm				
	Battery Type: Lead-Acid				
<b>141</b>	<b>Window speaker intercom system</b>	<b>pc</b>	<b>3</b>	<b>3,300.00</b>	<b>9,900.00</b>
	☑Dual-way anti-interference intercommunication				
	☑Connection cable length: at least 8m / 26.25ft				
	☑Working voltage: DC12V / 500mA				
	☑Adapter: AC 110/220V 50/60Hz				
	☑Main sound (sub sound): 3W+3W				
	☑Microphone sensitivity: -48db 20Hz-16KHz				
	☑Material: aluminum alloy shell				
<b>142</b>	<b>UPS Battery Backup, 1500VA</b>	<b>units</b>	<b>2</b>	<b>10,000.00</b>	<b>20,000.00</b>
	☑ Capacity: at least 1500VA/900w				
	Output voltage: 220				
	Output frequency: 57-63 Hz for 60 Hz (or 50/60 Hz ± 3 Hz Sync to mains)				
	Input: 200 – 240 V, 50/60 HZ, 16.0 A maximum				



	Input frequency: 50/60 Hz +/- 3 Hz Auto-sensing				
	☑6 battery backup sockets				
	☑USB, coax, phone/network, and serial ports				
	☑ with Automatic Voltage Regulation (AVR)				
	☑LCD screen				
	☑at most 4 hours charging time				
143	<b>Ink, Brother LC-539XL, Cyan</b>	pc	1	470.00	470.00
144	<b>Ink, Brother LC-539XL, Magenta</b>	pc	1	470.00	470.00
145	<b>Apple iPad 10.9 Wifi</b>	unit	4	49,900.00	199,600.00
	☑10.9-inch (diagonal) LED-backlit Multi-Touch display with IPS technology				
	☑2360-by-1640-pixel resolution at 264 pixels per inch (ppi)				
	☑8-core CPU; 8-core GPU Neural Engine 8GB RAM				
	☑256 GB storage				
	☑WiFi model				
	☑USB-C Charge Cable (1 meter)				
	☑20W USB-C Power Adapter				
	☑Compatible with existing Apple devices				
146	<b>Monitor, 27" IPS, 4K (3840 x 2160)</b>	unit	2	20,000.00	40,000.00
	☑Size (Inch): 27 Inch				
	☑Resolution: 3840 x 2160				
	☑Panel Type: IPS				
	☑Aspect Ratio: 16:9				
	☑Pixel Pitch: 0.1554 x 0.1554 mm				
	☑Brightness (Typ.): 300 cd/m <sup>2</sup>				
	☑Color Gamut (Typ.): sRGB 98% (CIE1931).				
	☑Color Depth (Number of Colors): 1.07B				
	☑Contrast Ratio (Min.): 700:1				
	☑Contrast Ratio (Typ.): 1000:1				
	☑Response Time 5ms (GtG at Faster)				
	☑Viewing Angle (CR≥10) 178°(R/L), 178°(U/D)				
	☑Surface Treatment Anti-Glare				
147	<b>External Hard Disk Drive (Portable, 4TB), USB 3.1</b>	unit	3	7,000.00	21,000.00
	☑Shock-absorbing				
	☑Interface: USB 3.1 (Max.5Gb/s)				
	☑Capacity: 4TB				
	☑Texture: Plastic/Rubber				
	☑Operating Voltage: DC 5V, 900mA				
	☑System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10, Mac OS X 10.6 or later, Linux Kernel 2.6 or later				
148	<b>SDS: 8417M Micro Cut Paper Shredder</b>	unit	2	10,800.00	21,600.00
	Paper Shredder				
	Features:				
	- Sheets / Pass: 17 Pages				
	- Cut Type: Micro-Cut				
	- Cut Size: 2mmx10mm				
	- Security: High Security Level Din-P-5				



	- Users: 5+				
	- Bin Size: 26L				
	- Safety: Safe touch function - stops shredder immediately when hand is detected too close to the paper opening				
	- Shreds: Paper, staples, paper clips, CDs, credit cards				
	- Warranty: 1 Year				
	- LCD display, retractable cover guard, easy carry handles, bin level indicator, easy roll wheels				
	What's in the box				
	1 x Shredder				
	1 x Manual				
<b>149</b>	<b>Computer Printer</b>	<b>unit</b>	<b>1</b>	<b>15,000.00</b>	<b>15,000.00</b>
	☑ Compact integrated tank design				
	☑ Print speeds up to 10.5ipm for black and 5.0ipm for colour				
	☑ Auto-duplex printing				
	☑ Wi-Fi & Wi-Fi Direct				
	☑ Borderless Printing up to A4 size				
	☑ Spill-free ink refilling				
	☑ Warranty of 2 years or 30,000 pages, whichever comes first				
	☑ Printer Type:				
	◀ Print, Scan, Copy				
	☑ Printing Technology:				
	☑ Print Method:				
	◀ On-demand inkjet (piezoelectric)				
	☑ Minimum Ink Droplet Volume:				
	◀ 3 pl				
	☑ Printer Language:				
	◀ ESC / P-R				
	☑ Print Direction:				
	◀ Bi-directional printing, Uni-directional printing				
	☑ Nozzle Configuration:				
	◀ 180 nozzles Black, 59 nozzles per colour (Cyan, Magenta, Yellow)				
	☑ Maximum Resolution:				
	◀ 5760 x 1440 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:				
	◀ 1 Approx. 69 sec per photo (Border) *1				
	◀ Approx. 92 sec per photo (Borderless) *1				
	☑ Draft, A4 (Black / Colour):				
	◀ Up to 33 ppm / 15 ppm *1				
	☑ ISO 24734, A4 Simplex (Black / Colour):				
	◀ Up to 10.5 ipm / 5.0 ipm *1				
	☑ ISO 24734, A4 Duplex (Black / Colour):				
	◀ Up to 6.0 ipm / 4.0 ipm *1				
	☑ Copy Speed:				



☑ Copy Quality:				
◀ Draft / Standard / Best Quality				
☑ Maximum Copies from Standalone:				
◀ 99 copies				
☑ Reduction / Enlargement:				
◀ 25 - 400%, Auto Fit Function				
☑ Maximum Copy Size:				
◀ A4, Letter				
☑ ISO 29183, A4 Simplex Flatbed (Black / Colour):				
◀ Up to 7.7 ipm / 3.8 ipm				
☑ Max Copy Resolution:0				
◀ 1440 x 720 dpi				
☑ 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):				
◀ 200 dpi: 11 sec / 200 dpi: 28 sec				
☑ Paper Handling:				
☑ Number of Paper Trays:				
◀ 1 (Paper Cassette)				
☑ Standard Paper Input Capacity:				
◀ 100 sheets, A4 Plain paper (80 g/m2)				
◀ 20 sheets, Premium Glossy Photo Paper				
☑ Output Capacity:				
◀ 30 sheets, A4 Plain Paper				
◀ 20 sheets, Premium Glossy Photo 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) *3				
	☑Card Slot / USB Host Function:				
	☑Type of Direct Printing:				
	◀Memory Device				
	☑Supported Memory Cards:				
	◀SD Memory Card				
	☑Printer Software:				
	☑Operating System Compatibility:				
	◀Windows XP / XP Professional x 64 Edition / Vista / 7 / 8 / 8.1 / 10				
	◀Windows Server 2003 / 2008 / 2012 / 2016				
	◀Only printing and scanning functions are supported for Windows Server OS				
	◀Mac OS X 10.6.8 or later				
	☑Interface:				
	☑USB:				
	◀USB 2.0				
	☑Network:				
	◀Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct				
	☑Network Protocol:				
	◀TCP/IPv4, TCP/IPv6, LPD, IPP, PORT9100, WSD				
<b>150</b>	<b>Printer All-inOne System With Wi-fi, ADF and Ink Tank system</b>	<b>unit</b>	<b>1</b>	<b>25,000.00</b>	<b>25,000.00</b>
	☑PRINTER TYPE:				
	◀Print, Scan, Copy, Fax with ADF				
	☑ISO PRINT SPEED (BLACK/COLOUR):				
	◀Up to 10 ipm / 5.0 ipm				
	☑ISO PRINT SPEED (BLACK/COLOUR):				
	◀Up to 7.7 ipm / 3.8 ipm				
	☑MAXIMUM COPY SIZE: Legal				
	☑SCAN SPEED (FLATBED / ADF):				
	◀12 sec / 4.5 ipm (black), 29 sec / 4.5 ipm (colour)				
	☑TYPE OF FAX:				
	◀Walk-up Black and white and colour fax capability				
	☑SUPPORTED OS & APPLICATIONS:				
	◀Windows XP / Vista / 7 / 8 / 8.1 / 10				
	◀Windows Server 2003/ 2008 / 2012 / 201				
	◀Mac OS X 10.6.8 or later				
	☑INTERFACE:				
	◀USB 2.0, Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct				
<b>151</b>	<b>Desktop Computer, All-In-One (AIO), 21.5" IPS</b>	<b>units</b>	<b>4</b>	<b>45,000.00</b>	<b>180,000.00</b>
	☑Processor: Intel Core i3-1005G1 (2C / 4T, 1.2 / 3.4GHz, 4MB) or higher				
	☑Graphics: Integrated Intel UHD Graphics				
	☑Chipset: Intel SoC Platform Memory: 1x 8GB SO-DIMM DDR4-3200				
	☑Memory Slots: Two DDR4 SO-DIMM slots, dual-channel capable				
	☑Max Memory: Up to 16GB DDR4-3200				
	☑Storage: 512GB SSD M.2 2280 PCIe 3.0 NVMe				





	☑Display: 21.5" FHD (1920x1080) IPS 250nits				
	☑Touchscreen: None				
	☑Keyboard: Calliope Wireless Keyboard				
	☑Mouse: Calliope Wireless Mouse				
	☑Expansion Slots: Two M.2 slots (one for WLAN, one for SSD)				
	☑Ethernet: Integrated 100/1000M WLAN + Bluetooth: 11ax, 2x2 + BT5.0				
	☑Rear Ports: 1x power connector 1x HDMI 1.4 out 1x Ethernet (RJ-45) 2x USB 2.0 1x USB 3.1 Gen 1				
	☑Left Ports: 1x headphone / microphone combo jack (3.5mm) 1x card reader 1x USB 3.1 Gen 1				
<b>152</b>	<b>Desktop Computer (i3, 11th Gen)</b>	<b>set</b>	<b>1</b>	<b>40,000.00</b>	<b>40,000.00</b>
	☑Processor: Intel Core i3-11300 (4 cores /8 threads) or higher				
	☑Motherboard: Intel H510M Ultra Durable motherboard, Gaming LAN, Anti-Sulfur Resistor, LGA-1200				
	☑8GB DDR4 2933 DIMM Desktop Memory or higher				
	☑SSD: 240GB NVMe or higher				
	☑Keyboard and Mouse Combo				
	☑Casing with Power Supply				
	☑Monitor: 18.5 inch, HD Ready (1366 X 768), TN Panel Connectivity Port: 1 VGA Port, 1 HDMI Port / Aspect Ratio: 16:9, Brightness (Typical): 200 cd/m2 / Refresh Rate: 60 Hz,				
	☑Operating System: Genuine Windows 10 Home (OEM)				
	☑AVR: 500W IC controlled				
<b>153</b>	<b>External Hard Disk Drive (Portable, 2TB), USB 3.1</b>	<b>unit</b>	<b>4</b>	<b>4,200.00</b>	<b>16,800.00</b>
	☑Shock-absorbing				
	☑Interface: USB 3.1 (Max.5Gb/s)				
	☑Capacity: 2TB				
	☑Texture: Plastic/Rubber				
	☑Operating Voltage: DC 5V, 900mA				
	☑System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10, Mac OS X 10.6 or later, Linux Kernel 2.6 or later				
<b>154</b>	<b>GPS, Waterproof Hiking</b>	<b>unit</b>	<b>2</b>	<b>20,000.00</b>	<b>40,000.00</b>
	<b>General</b>				
	Physical Dimensions - 2.7" x 6.2" x 1.2" (6.9 x 15.7 x 3.0 cm)				
	Display Size - 1.6" x 2.2" (4.1 x 5.6 cm)				
	Display Type - 256 color transreflective TFT				
	Weight - 7.7 oz (218 g) with batteries				
	Battery Type - 2 AA batteries				
	Battery Life - 18 hours, typical				
	Watering Rating - IPX7				
	High-Sensitivity Receiver - Yes				
	<b>Maps &amp; Memory</b>				
	Ability to add maps - Yes				
	Basemap - Yes				
	Automatic routing (turn by turn routing on roads) - Yes				
	External Memory Storage - 128 microSD card (included)				
	Waypoints/favorites/locations - 1000				



	Track Log - 10,000 points; 20 saved tracks				
	Routes - 50				
	<b>Outdoor Recreation</b>				
	Hunt/Fish Calendar - Yes				
	Sun and Moon information - Yes				
	Geocaching-Friendly - Yes				
	<b>Sensors</b>				
	Barometric Altimeter - Yes				
	Compass - Yes				
	Area Calculation - Yes				
155	Ink cartr HP # Q6003A, magenta	pc	10	4,140.00	41,400.00
				<b>TOTAL:</b>	<b>6,854,290.00</b>

**DILBERTO O. FERRAREN**  
BAC Chairman