



BID BULLETIN 01

Date: 18 August 2021

Project Title: Supply and Delivery of Office and I.T. Equipment and Supplies
(GOODS-21-40)

Location: VSU Main, Visca, Baybay City, Leyte

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

I. LIST OF REQUIREMENTS

(1st Envelope) TECHNICAL COMPONENT ENVELOPE	
<i>Legal Documents</i>	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate (SEC, DTI or CDA)
	b. Mayor's/Business Permit
	c. Tax Clearance
<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 1,509,108.50)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 1,509,108.50 and the largest of which should be at least Php 754,554.25 .
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 3,018,217.00)
	Or
	Committed Line of Credit (at least Php 301,821.70)
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



Please take note:

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).

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

1. Convert all documents into Portable Document Format (PDF) and should be printable.
2. 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. Registration Certificate (SEC/DTI)	Registration Certificate
3. Mayor’s/Business Permit	Mayor’s-Business Permit
4. Tax Clearance	Tax Clearance
5. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
6. Statement of Bidder's Single Largest Completed Contract	SLCC
7. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
8. Bid Security	Bid Security
9. Technical Specifications	Technical Specifications
10. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
11. Manpower Requirements	Manpower Requirements
12. After Sales service/parts	After Sales
13. Omnibus Sworn Statement	Omnibus Sworn Statement
14. Audited Financial Statements	Audited Financial Statements
15. Net Financial Contracting Capacity	NFCC
16. Committed Line of Credit	CLC
17. Bid Form	Bid Form
18. 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 Ms. Jessamine C. Ecleo at jessamine.ecleo@vsu.edu.ph before the deadline.

III. Changes in the Bidding Documents

Original	Amendment
5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>06 August – 26 August 2021 until 8:30 AM</i> 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 Five Thousand Pesos (PhP 5,000.00). 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>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>06 August – 26 August 2021 until 8:30 AM</i> 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 Five Thousand Pesos (PhP 5,000.00). 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 also deposit the applicable fee to Visayas State University Landbank Account:</p> <p>Account Name: Visayas State University Fund 164 Account Number: 3572-1000-13</p> <p>And send the deposit slip to Ms. Jessamine C. Ecleo at jessamine.ecleo@vsu.edu.ph</p>



IV. Revised List of Goods and Technical Specifications

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

Item No.	Description	Unit	QTY	ABC/Unit	Total ABC
1	14" LAPTOP	units	5	60,000.00	300,000.00
	Processor: Intel Core i7-1065G7-delete 10 th gen (4AC/8T, 1.3/3.9GHz, 8mb) or higher				
	Video Processor: NVIDIA GeForce MX250 2GB GDDR5				
	RAM: at least 8GB Soldered DDR4-2666				
	SSD: at least 512GB SSD M.2 PCI-E				
	Display: 14" FHD (1920 x 1080) TN 220nits Anti-Glare				
	Operating System: Genuine Windows 10				
2	At least 1KM Single Core FTTH Drop Cable	spool	10	3,700.00	37,000.00
	at least 1 Kilometer FTTH Drop Cable				
	Single-Core outdoor				
	GS657				
	3 steel wire messenger (1.2mm phosphating steel wire 0.45mm steel core)				
3	Air Condition, Split type, Inverter, 2.0 HP	set	1	55,000.00	55,000.00
	Cooling capacity: at least 18,500 kj/h				
	wall mounted				
	EER rating above 10				
	with remote control				
	with one year warranty on parts and services				
	with free installation				
4	Air Conditioner, 1.5HP, Split Type, Wall Mounted, Deluxe Inverter	unit	1	35,000.00	35,000.00
	1.5 HP				
	Split Type Air Conditioner				
	Wall Mounted, Deluxe Inverter				
	Intelligent Inverter Technology				
	Honeycomb Intake Grille				
	Nanoe-G, Auto Comfort				
	Quite Mode, Mild Dry Cooling				
	Soft Dry Operation Mode				
	Odour-Removing Function				
	Blue Fin Condenser				
	R410A Refrigerant				
	with free Installation Included				
5	All-in-One Ink Tank Printer Wi-Fi Duplex with ADF	unit	5	21,000.00	105,000.00
	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				
6	Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)	pc	1	2,000.00	2,000.00
	Antivirus Software keeps your PC/Laptop/Mobile device safe from Trojans, viruses, spyware, rootkits, and more, with state-of-the-art anti-malware protection				
	Detects, quarantines, and blocks viruses and malware to prevent damage to your PC/Laptop				
	Keep zero-day threats and botnets at bay - McAfee Active Protection and Global Threat Intelligence technology have you covered				
	☑Block inappropriate sites				
	☑Two-Way Firewall system monitors and stops traffic in and out of your PC				
	☑Keep sensitive files private by storing them on your PC with 128-bit encryption				
	☑Eliminate the hassle of passwords with the password manager app				
7	Assorted Dupont and Jumper Wires Cables	set	1	3,000.00	3,000.00
	☑Wire type: 28 AWG (7 strands @ 28 AWG)				
	☑Material: Durable hard plastic and copper wire.				
	☑Weight:31g(1.1oz)				
	☑Package: Female –Female Dupont Wires – 20pcs x 300mm, Male –Female Dupont Wires – 20pcs x 300mm, Male –Male Dupont Wires – 20pcs x 300mm, Female –Female Dupont Wires – 20pcs x 200mm, Male –Female Dupont Wires – 20pcs x 200mm, Male –Male Dupont Wires – 20pcs x 200mm, Female –Female Dupont Wires – 20pcs x 100mm, Male –Female Dupont Wires – 20pcs x 100mm, Male –Male Dupont Wires – 20pcs x 100mm, Female –Female Jumper Wires – 20pcs x 300mm, Male –Female Jumper Wires – 20pcs x 300mm, Male –Male Jumper Wires – 20pcs x 300mm, Female –Female Jumper Wires – 20pcs x 200mm, Male –Female Jumper Wires – 20pcs x 200mm, Male –Male Jumper Wires – 20pcs x 200mm, Female –Female Jumper Wires – 20pcs x 100mm, Male –Female Jumper Wires – 20pcs x 100mm, Male –Male Jumper Wires – 20pcs x 100mm				
8	Automatic Voltage Regulatory (AVR), 1500W, heavy duty	unit	2	5,000.00	10,000.00
	☑Input: 220volts				
	☑Power: 1500watts				
	☑Output: 110-220 volts				
	☑Range voltage 120v-220 volts				
	☑Servo motor controlled				
9	AVR, 500W (IC Controlled)	unit	1	500.00	500.00
	☑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				



10	Blender and Mixer	pc	1	6,500.00	6,500.00
	☐2 in 1 (Blending & Juicer)				
	☐Capacity of 1500mL Plastic Container and 450W motor				
	☐2 Speed + Pulse control				
	☐with Safety switch				
	☐4 sealing lips for leak prevention				
	Sharp, durable and long-life cutting blades				
11	Computer HD Webcam	pcs	3	1,000.00	3,000.00
	☐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				
12	Computer Keyboard USB	pcs	7	400.00	2,800.00
	☐Standard Keyboard with 104 Keys				
	☐USB Connection				
	☐Low Profile Key Caps				
	☐Minimum Key Noise				
	☐Laser Printing for Key Layout				
	☐Spill Resistant Design				
13	Computer Motherboard	pc	4	4,000.00	16,000.00
	☐Supports 9th and 8th Gen Intel® Core™ Processors				
	☐Dual Channel Non-ECC Unbuffered DDR4				
	☐8-Channel HD Audio with High Quality Audio Capacitors				
	☐Gaming LAN with Bandwidth Management				
	☐Anti-Sulfur Resistors Design				
14	Computer Printer, All-in-One/Multifunction Colored-Ink Tank	unit	9	11,000.00	99,000.00
	☐Ultra-low-cost printing: Print up to 8,100 pages in black and 6,500 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				



15	CPU Cooler, Fan and Heatsink	set	1	1,500.00	1,500.00
	☐CPU Compatibility: Intel LGA/1150/1151/1155/1156/775				
	☐TDP: 160W				
	☐Heatsink Material: Aluminum				
	☐Heat Base Material: 45X38mm HDT(Heat pipes Direct Touch)				
	☐Heat Pipes: 5X6mm Copper powder heat pipes 3*U type + 2*L type				
	☐Surface Treatment: Anti-oxidation Protective Layer				
	☐Fan Speed: 1000~1800±10%RPM				
	☐Max. Air Flow: 65CFM				
	☐Power Input: 4.5W				
	☐Rated Voltage: 12VDC				
	☐Operating Voltage: 8~13.2VDC				
	☐Bearing Type: Hydraulic Bearing				
	☐Rated Current: 0.22~0.35A				
16	Crimper for RJ 45, Pass Through for CAT5, CAT6 UTP Cable	pc	6	1,500.00	9,000.00
	☐Professional crimp tool crimps, strips and cuts cable for 6 and 8 position modular plugs/connectors for your variety of network needs.				
	☐The crimp tool offers reliable, easy-to-use and affordable solution to meet immediate cutting needs.				
	☐This user friendly device works with any Ethernet or telephone cable.				
	☐Compact design with easy handle hand grips.				
	☐Built-in cutter and stripper function.				
	☐**Ratcheting Modular Crimper**				
	☐It has a ratchet mechanism to keep tool closed when not in use.				
	☐The Ratcheting Modular Crimper/Stripper is durably made from high-carbon steel for high performance.				
	☐It helps provide fast, reliable modular-crimp connector installation for RJ45 voice and data applications.				
	☐Cuts, Strips and Crimps Twisted Pair, Ethernet, RJ45 Voice and Data Cables.				
17	Desktop Computer (i3) (assembled)	set	1	30,000.00	30,000.00
	☐Processor: Intel Core i3-9100 Processor (9M Cache, up to 4.10 GHz) or higher				
	☐Motherboard: Intel H310 Ultra Durable motherboard, Gaming LAN, Anti-Sulfur Resistor, LGA-1151				
	☐8GB DDR4 2400 DIMM Desktop Memory				
	☐SSD: at least 240GB				
	☐Keyboard and Mouse Combo				
	☐Casing with Power Supply at least 600W				
	☐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				
18	Desktop Computer (i5)	unit	1	45,000.00	45,000.00



	☑Processor:				
	◀Intel Core i5 9400F or higher				
	☑Motherboard:				
	◀Intel H310 Chipset				
	◀Anti-Sulfur Resistors Design				
	◀Gaming LAN with Bandwidth Management				
	☑Memory:				
	◀16GB (2x8) DDR4 or higher				
	☑SSD: 500GB M.2 or higher				
	☑Optical Drive: DVD-RW				
	☑Casing: W/ 700W PSU,				
	☑Monitor: 23" IPS FHD,				
	☑Operating System:				
	◀Genuine Windows 10 Home (OEM)				
	☑Keyboard and mouse combo				
	☑500W IC controlled AVR				
	☑Stereo speakers				
	UPS at most 4hrs normal charging time at least 600VA				
19	Desktop Computer (i7 Branded)	unit	3	75,000.00	225,000.00
	☑CPU: 9th Gen Intel Core i7-9700 (8-Core, 12MB Cache, up to 4.7GHz with Intel Turbo Boost Technology) or higher				
	☑HDD: 256GB M.2 PCIe NVMe Solid State Drive + 1TB 7200 rpm 3.5" SATA Hard Drive				
	☑RAM: 8GB (8GBx1) DDR4 2666MHz				
	☑Graphics: NVIDIA GeForce GTX 1650 4GB GDDR5				
	☑Screen: 23" IPS Monitor FHD				
	☑Optical Drive: No Optical Drive				
	With third party speakers				
	Keyboard and mouse combo USB				
	UPS at most 4hrs normal charging time at least 600VA				
	☑OS: Windows 10 Home Single Language (64bit) English				
	At least 3 year warranty				
20	Desktop Computer, All-in-one (AIO)	unit	1	52,000.00	52,000.00
	Processor: 11th Generation Intel® i5-1135G7 processor (8MB Cache, up to 4.2 GHz) or higher				
	Display: 23.8-inch FHD (1920 x 1080) Anti-Glare Narrow Border Infinity Non-Touch Display				
	GPU: Intel Iris Xe Graphics with shared graphics memory				
	Memory: 8GB, 2666MHz, DDR4 (1x8GB, note: extra slot for upgrade) or higher				
	Storage: 256GB M.2 PCIe NVMe Solid State Drive (Boot) + 1TB 7200 rpm 2.5" SATA Hard Drive (Storage)				
	Ports: 1 Rear USB 2.0 Type A, 3 USB 3.1 Gen 1 Type A, 1 USB 3.1 Gen 2 Type-C, 1 RJ-45, 1 Microphone/Headset Jack, 1 DC power, 1 HDMI-In, 1.HDMI-out (1.4)				



	Below: Speaker, Power, Input mode, Power on/Wake from USB KBMS from S3/Modern Standby ,S4, S5				
	Operating System: Windows 10 Home				
	UPS at most 4hrs normal charging time at least 600VA				
	Included with Wireless Keyboard and Mouse				
21	Desktop Microphone	pieces	6	650.00	3,900.00
	☑Compatible with: Desktop/Notebook/PC, Windows 7-10				
	☑Pickup: 6mm Condenser Mic				
	☑Microphone Directivity: Omnidirectional				
	☑Sensitivity: -58db±3db				
	☑Signal-to-noise Ratio: ≤50dB				
	☑Cable Length: at least 2.5m				
	☑Type: 3.5mm Plug				
22	Digital Copier	unit	1	60,000.00	60,000.00
	Digital Copier with Network Printing, Color Scanning and Network Fax				
	Copy and Print speed of at least 40 copies per minute, A4				
	Copy/Print/Scan Resolution of 600 x 600 dpi, Fast 1200 dpi and Fine 1200 dpi				
	Warm-up time 17 seconds or less				
	Original Size and Copy Size is from A6 up to Legal				
	Standard Memory Capacity is 512MB and upgradeable to a maximum of 1536MB memory				
	Maximum Duty Cycle of 50,000 pages per month				
	Input paper capacity of 250-sheets universal paper cassette and 100-sheets multi-purpose tray				
	Built-in Document Processor with a capacity of 50 sheets				
	Printer Processor Cortex-A9, 800 MHz				
	Compatible with Windows, Macintosh, Linux, Unix				
	Built-in Gigabit Network, USB 2.0, USB Host Connection and slot for optional SD/SDHC card				
	PCL6, KPDL3 (Post Script 3 compatible), PDF Direct Print, XPS Direct Print and Open XPS emulations				
	Power consumption copying/printing 661W, Sleep mode 1W				
23	EPSON INK btl 664 black, Genuine	btls	5	500.00	2,500.00
24	Epson L6160 Black 001 Ink, Genuine	btls	3	550.00	1,650.00
25	Epson L6160 Cyan 001 Ink, Genuine	btls	3	550.00	1,650.00
26	Epson L6160 Magenta 001 Ink, Genuine	btls	3	550.00	1,650.00
27	External Hard Disk Drive (Portable, 1TB), USB 3.1	unit	8	3,000.00	24,000.00
	☑Shock-absorbing silicon casing				
	☑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				



28	External Hard Disk Drive (Portable, 1TB), USB 3.1	unit	1	3,800.00	3,800.00
	☐ Shock-absorbing silicon casing				
	☐ 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				
29	External Hard Disk Drive (Portable, 2TB), USB 3.1	unit	4	5,500.00	22,000.00
	☐ Shock-absorbing silicon casing				
	☐ 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				
30	External Hard Disk Drive (Portable, 4TB), USB 3.1	unit	3	9,000.00	27,000.00
	☐ Shock-absorbing silicon casing				
	☐ 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				
31	External Solid State Drive, (Portable, 500GB), USB 3.1	pcs	2	6,000.00	12,000.00
	Storage Capacity: 500 GB or higher				
	Connection Interface: 1 x USB 3.1 (USB Type-C)				
	Maximum Read Speed: 550 MB/s				
	Type Solid-State Drive				
	Form Factor: 2.5"				
	Cooling System Passive				
	Environmental Resistance Shock				
	IP Rating IP55				
32	Fiber Optic FTTH Tool Kit with Optical Power Meter	unit	2	2,491.00	4,982.00
	☐ Technical Parameters:				
	◀ Fiber cleaver				
	1.Applicable bare fiber diameter: 125um				
	2.Applicable fiber core number: single core				
	3.Applicable fiber coating diameter: 0.25 & 0.9mm				
	4.Need to strip length before fiber cutting: fiber cutting length +18mm or more				
	5.Fiber cutter length: 9-16mm (0.25mm) 10-16mm (0.9mm)				
	6.Representative value of the cutting angle: ≤0.5°				
	7.Blade life: 48000 core wire				



	☐ Optical power meter				
	1.Wavelength range: 800~1700nm				
	2.Connector: FC/SC/ST (optional)				
	3.Uncertainty: ±5%				
	4.Standard wavelength (nm): 850/1300/1310/1490/1550/1625				
	5.Display resolution: linear display: 0.1%, logarithmic display: 0.01dBm				
	6.Red light power (one machine series) (MW): 1, 5, 10, 20, 30 (optional)				
	7.Automatic shutdown time: 10min				
	8.Battery continuous working time: ≥48h				
33	Fiber to Copper Media Converter Gigabit Full Duplex Pair A/B Single Mode 25KM	pair	20	900.00	18,000.00
	☐Fiber to Copper Media Converter				
	☐Gigabit Full Duplex				
	☐Pair A/B				
	☐Single Mode				
	☐25KM				
34	Flash Drive, 128GB, USB 3.0	pcs	4	1,500.00	6,000.00
	☐Capacity:128GB				
	☐Interface: USB 3.0				
	☐Speed: 100MB/s read, 10MB/s write				
35	Flash Drive, at least 32GB USB 3.0	piece	6	800.00	4,800.00
36	Floor Standing Mounted Airconditioner	unit	1	80,000.00	80,000.00
	☐At least 4.0HP				
	☐Energy Saving Compressor, 3D Air Delivery System				
	☐with Sleep Mode				
	☐with Auto On / Off Timer				
	☐with High Efficiency Air Filter				
	☐with Remote Control				
	☐Air Conditioner Rated Capacity (BTUs) at least 2.5				
	with free installation				
37	FTTH S Type Fiber Fixing Clamp for FTTH Drop cable	pcs	80	34.00	2,720.00
38	FTTH SC connector butterfly type bundle 10 pcs per pack	pack	5	600.00	3,000.00
	☐Field installable connector (SC) consist of the following components				
	◀Locking Tool				
	◀Flop Cover				
	◀Cable Buckle				
	◀Slider				
	◀Length Control Jig				
39	True Rated Generic-delete Power supply, 700 watts	piece	1	2,700.00	2,700.00
	☐700 watts power rating				
	☐High efficiency with 80 PLUS certification				
	☐24/7 continuous power output with 40°C operating temperature				



	☑Class-leading single +12V rail				
	☑Active PFC Circuitry				
	☑PCI-E 8pin and PCI-E 6pin connector support				
	☑Silent running 120mm fan with 18dBA				
40	Headset (Wired), Generic Over the Ear with mic	pcs	2	250.00	500.00
	☑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				
41	Hikvision Camera (5 units Dome Camera x 3,800.00), Compatible with the existing fleet DS-96128NI-I16	unit	5	3,800.00	19,000.00
	☑2 MP Dome IPCamera				
	☑Power of Ethernet (PoE)				
	☑Weather proof (IP67, IK10protection),				
	☑outdoor type				
42	Hikvision NVR 8 Channel with 8 PoE ports with IP camera (POE) (Compatible with the existing fleet)	unit	1	13,000.00	13,000.00
	☑Video Input: 8-ch, Up to 12 MP resolution				
	☑HDMI Output: 4K (3840 x 2160)/60Hz, 4K (3840 x 2160)/30HZ, 1920 x 1080p/60Hz, 1600 x 1200/60Hz, 1280 x 1024/60Hz, 1280 x 720/60Hz, 1024 x 768/60Hz				
	☑VGA Output: 1-ch, BNC (1.0 Vp-p, 75 Ω),				
	☑resolution: PAL: 704 x 576, NTSC: 704 x 480				
	☑Incoming Bandwidth: 80 Mbps, 256 Mbps				
	☑Audio Output: 1-ch, RCA (Linear, 1 KΩ)				
	☑Two-Way Audio: 1-ch, RCA (2.0 Vp-p, 1 KΩ)				
	☑Decoding Format: H. 265/ H.265+/H.264/H.264+/MPEG4				
	☑Decoding Capability: 16-ch @ 1080p (30fps)				
	☑Synchronous Playback: 8-ch				
	☑Recoding Resolution: 12 MP/8 MP/6 MP/5 MP/4 MP/3				
	☑Network Protocol: TCP/IP, DHCP, Hik-Connect, DNS, DDNS				
	☑SMTP, NFS, iSCSI, UPnP™, HTTPS				
	☑Remote Connection: 32				
	☑Network Interface: 1 RJ-45 10/100/1000 Mbps self-adaptive				
	☑Interface: 8 RJ-45 10/100/1000 Mbps self-adaptive				
	☑Ethernet interfaces				
	☑Power:≤120W ≤ 180W				
	☑Standard: IEEE 802.2 af/at				
	☑Auxiliary Interface (1 X 8 TB SATA HDD included)				
	☑SATA: 2 SATA interfaces				
	☑with 1 TB HDD for surveillance				



	☑Capacity: Up to 8TB capacity for each HDD				
	☑USB Interface: Fron panel: 1 x USB 2.0;				
	☑Rear panel:1 x USB 3.0				
	☑Alarm In/Out: 4/1				
43	Hikvision PTZ Camera DS-2DE4220W-AE, (Compatible with the existing fleet DS-96128NI-I16)	unit	1	19,500.00	19,500.00
	☑2MP PTZ Camera				
	☑complete with mounting bracket				
	☑PoE+/PoE/24VAC power supply				
	☑IP66				
	☑20X Optical Zoom, 16x digital zoom				
	☑Full HD resolution				
	☑True Day/Night, D WDR, 3D DNR				
44	HP Officejet 7612 ink, genuine	sets	2	3,000.00	6,000.00
45	HP, Laserjet Toner Cartridge, CF401A, Cyan , genuine	pc	1	5,000.00	5,000.00
46	HP, Laserjet Toner Cartridge, CF403A, Magenta, genuine	pc	1	5,000.00	5,000.00
47	Ink HP GT51 Black (K) , genuine	btls	4	300.00	1,200.00
48	Ink HP GT52 Cyan (C) , genuine	btls	4	300.00	1,200.00
49	Ink HP GT52 Magenta (M) , genuine	btls	4	300.00	1,200.00
50	Ink HP GT52 Yellow (Y) , genuine	btls	4	300.00	1,200.00
51	Ink, Epson 003,Genuine Black 65mL	btl	6	350.00	2,100.00
52	Ink, EPSON 003,Genuine Cyan 65mL	btl	6	350.00	2,100.00
53	Ink, EPSON 003,Genuine Magenta 65mL	btl	6	350.00	2,100.00
54	Ink, EPSON 003,Genuine Yellow 65mL	btl	8	350.00	2,800.00
55	Ink, Epson Premium Dye Ink, 1 liter, black-delete Ink, Epson, genuine (BK) T664, 70 ml	btls	6	350.00	2,100.00
56	Ink, Epson Premium Dye Ink, 1 liter, magenta-delete Ink, Epson, genuine (M) T664, 70 ml	btls	4	350.00	1,400.00
57	Ink, Epson Premium Dye Ink, 1 liter, yellow-delete Ink, Epson, genuine, (Y) T664, 70 ml	btls	4	350.00	1400.00
58	Ink, Epson T522, (B, Y, M, C) , genuine	sets	4	3,000.00	12,000.00
59	Ink, Epson, genuine (C) T664, 70 ml	btl	10	350.00	3,500.00
60	Ink, Epson, genuine (M) T664, 70 ml	btl	15	350.00	5,250.00
61	Ink, Epson, genuine, (BK) T664, 70 ml	btl	19	350.00	6,650.00
62	Ink, Epson, genuine, (Y) T664, 70 ml	btl	10	350.00	3,500.00
63	Keyboard and Mouse Combo Bundle, USB Powered	set	1	600.00	600.00
	☑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				
64	Laminator Machine, A3	unit	1	2,800.00	2,800.00
	☑Heavy Duty, for A3 & A4 size, infrared heating system and adjustable temperature control with overheating protection				
65	Laptop (Pentium Dual Core)	unit	2	30,000.00	60,000.00
	☑Processor: Intel core i3 8th Gen Processor or higher				
	☑Memory: at least 4GB DDR4				
	☑Storage: at least 128GB SSD				
	☑Display: 14" HD (1366x768) LED Display				
	☑Video Processor: nVidia MX110 2GB VRAM				
	☑Connectivity: 802.11AC WiFi + BT USB3.0 Port HDMI Port				
	☑Operating System: Genuine Windows 10 Home				
	Free back pack/bag				
	At least 3 years warranty				
66	Laptop computer, i7, 16GB RAM	unit	1	70,000.00	70,000.00
	☑Processor: Intel Core i7 11th Gen or higher				
	☑Memory: at least 16 GB DDR4				
	☑Display: 15.6" FHD IPS LED-backlit display				
	☑Storage: at least 512 GB SSD				
	☑Keyboard: Backlit keyboard				
	☑Ports: 2x USB 3.0 or USB C; 1x HDMI; 1x Ethernet; 1x				
	☑Headphone/Microphone Jack				
	☑Connectivity: 802.11a/b/g/n/ac Wi-Fi compatible; Bluetooth 5.0				
	☑Battery: Lithium ion battery				
	☑Security: Fingerprint button				
	☑Operating system: Genuine Windows 10				
	☑Warranty: at least 3 years with after sales service"				
	Free back pack/bag				
67	Laptop, 14" (i7)	unit	1	60,000.00	60,000.00
	☑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				
68	LED Light, lens LED reflector and Reflector Collimator Cup	sets	2	1,500.00	3,000.00
	☑Item Type: LED Lens + Reflector + Fixed Bracket				
	☑Beam Angle: 60°, ° (Optional)				
	☑Lens Height: 19mm(60°) 0.2mm(°)				
	☑Lens Width: 2mm				
	☑Transmittance: >95%				
	☑Lens Material: High-Temperature Resistant Optical Glass (Temperature Resistance: -0+°C)				
	☑Product Design: Aspheric Surface Design				
	☑Reflective Cup Diameter:50mm				
	☑Bracket Diameter: 77mm (Including Fixing Screws), 5mm (Excluding Fixing Screws)				
	☑Thickness: 6.5mm				
	☑Package List:				
	◀1 x mm Lens				
	◀1 x 50mm Reflector Cup				
	◀1 x Fixed Bracket				
69	LTE Kit	kit	10	14,286.00	142,860.00
	☑Details				
	◀Architecture: ARM 64bit				
	◀CPU: 88F3720				
	◀CPU core count2				
	◀CPU nominal frequency800 MHz				
	◀Router OS license 3				
	◀Operating System RouterOS				
	◀Size of RAM 256 MB				
	◀Storage size 16 MB				
	◀Storage type FLASH				
	◀MTBF Approximately 200'000 hours at 25C				
	◀Tested ambient temperature -30°C to 70°C				
	☑Powering Details:				
	◀Number of DC inputs 1 (PoE-IN)				
	◀Max power consumption 8 W				
	◀Max power consumption without attachments 8 W				
	◀FAN count Passive				
	◀PoE in 802.3af/at				



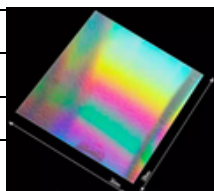
	◀PoE in input Voltage 12-57 V				
	☑Mobile				
	◀2G Category Class12				
	◀G bands 2 (1900MHz) / 3 (1800MHz) / 5 (850MHz) / 8 (900MHz)				
	◀3G Category R7 (21Mbps Downlinks, 5.76Mbps Uplink) / R8 (42.2Mbps Downlink, 5.76Mbps Uplink)				
	◀3G bands 1 (2100MHz) / 2 (1900MHz) / 5 (850MHz) / 8 (900MHz)				
	◀LTE Category 6 (300Mbit/s Downlink, 50Mbit/s Uplink)				
	◀LTE FDD bands 1 (2100MHz) / 2 (1900MHz) / 3 (1800MHz) / 7 (2600MHz) / 8 (900 MHz) / 20 (800MHz) / 5 (850MHz) / 12 (700MHz) / 17 (700MHz) / 25 (1900MHz) / 26 (850MHz)				
	◀LTE TDD bands 38 (2600MHz) / 40 (2300MHz) / 39 (1900MHz) / 41n (2500MHz)				
	◀Ethernet & Peripherals				
	◀10/100/1000 Ethernet ports 1				
	◀Number of SIM slots 1 Modem (Micro SIM)				
	◀MiniPCI-e slots 1				
	◀Certification & Approvals Details:				
70	LTE Modem, Home Prepaid Wifi, Open Line	pc	1	2,500.00	2,500.00
	☑LTE Technology: LTE-Advanced				
	☑WiFi Band: 2.4 & 5GHz Dual Band				
	☑Network Type: 3G and 4G				
	☑LAN Port: 4 LAN Ports				
71	Memory, DDR4 (16GB)	pair	1	4,000.00	4,000.00
	☑2x8GB 2400Mhz DDR4				
	☑Non-ECC CL15 DIMM				
	☑Desktop Memory RAM with heat spreaders				
72	Micro Card Memory Shield Module	pcs	3	500.00	1,500.00
	☑Power supply voltage: VCC: 4.5-5.5 volt				
	☑Electric Current: 0.2 – 200 mA				
	☑Interface level: 3.3 or 5 V				
	☑Support Card Type:Micro SD Card (<=2G) micro SDHC cards (<=32G)				
	☑Compatibility: Arduino				
	☑Communication interface: Standard SPI interface				
	☑Number of pins: Six (GND,VCC,MISO,MOSI,SCK,CS)				
73	Microcontroller, System on a Chip (SOC) computer, 4GB RAM	pcs	3	4,000.00	12,000.00
	☑Processor: Broadcom BCM2711, quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5 GHz				
	☑Memory: 4GB LPDDR4-2400 SDRAM				
	☑Connectivity:2.4 GHz and 5.0 GHz IEEE 802.11b/g/n/ac wireless LAN, Bluetooth 5.0, BLE, 2 x USB 3.0 ports, 2 x USB 2.0 ports				
	☑GPIO: Standard 40-pin GPIO header(fully backwards-compatible with previous boards)				



	<input checked="" type="checkbox"/> Video & Sound: 2 x micro HDMI ports (up to 4Kp60 supported)2-lane MIPI DSI display port2-lane MIPI CSI camera port4-pole stereo audio and composite video port, 2 x micro HDMI ports (up to 4Kp60 supported)2-lane MIPI DSI display port2-lane MIPI CSI camera port4-pole stereo audio and composite video port, 2 x micro HDMI ports (up to 4Kp60 supported)2-lane MIPI DSI display port2-lane MIPI CSI camera port4-pole stereo audio and composite video port				
74	Microcontroller, System on a Chip (SOC) Computer, 8GB RAM	set	1	7,000.00	7,000.00
	<input checked="" type="checkbox"/> SoC Type (processor): Broadcom BCM2711, 64-bit ARM Cortex-A72 (ARMv8), Quad-core, 28nm				
	<input checked="" type="checkbox"/> core type:cortex- A72 64-bit (ARMv8)				
	<input checked="" type="checkbox"/> No. of Cores: quad-core				
	<input checked="" type="checkbox"/> GPU: VideoCore VI				
	<input checked="" type="checkbox"/> Multimedia: H.265 (4Kp60 decode); H.264 (1080p60 decode, 1080p30 encode); OpenGL ES, 3.0 graphics				
	<input checked="" type="checkbox"/> CPU Clock: 1.5 GHz				
	<input checked="" type="checkbox"/> Memory/ OS Storage: micro SD				
	<input checked="" type="checkbox"/> Ram LPDDR4: 8GB				
	<input checked="" type="checkbox"/> Ethernet: Gigabit Ethernet				
	<input checked="" type="checkbox"/> USB Port: 2 x micro HDMI support Dual Display				
	<input checked="" type="checkbox"/> wifi: 802.11 b/g/n/ac (2.4GHz + 5GHz & Shielded)				
	<input checked="" type="checkbox"/> Bluetooth: 5.0 + BLE (Shielded)				
	<input checked="" type="checkbox"/> antenna				
	<input checked="" type="checkbox"/> PCB Antenna				
	<input checked="" type="checkbox"/> GPIO				
	<input checked="" type="checkbox"/> 40 pins(fully backwards- compatible with Previous boards)				
	<input checked="" type="checkbox"/> Operating System: Raspbian				
	<input checked="" type="checkbox"/> 5V Via USB Type C (up to 3A), 5V Via GPIO header (upto 3A), Power over Ethernet, Requires PoE HAT				
	<input checked="" type="checkbox"/> Enclosure				
	<input checked="" type="checkbox"/> Clear Case with Fan				
	<input checked="" type="checkbox"/> Included Components				
	<input checked="" type="checkbox"/> type-C USB cord and HDMI cord				
75	Microsoft Office Home & Student 2019, 1 Perpetual License, Medialess	pcs	2	7,500.00	15,000.00
	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				
76	Microwave Oven, Digital, Non-Inverter, 13 Power Levels	pc	1	14,000.00	14,000.00
	<input checked="" type="checkbox"/> 30 Liters capacity				
	<input checked="" type="checkbox"/> Grill and convection				
	<input checked="" type="checkbox"/> electronic control				
	<input checked="" type="checkbox"/> dual wave system				
	<input checked="" type="checkbox"/> 13 power levels				
	<input checked="" type="checkbox"/> 900W				



	<input checked="" type="checkbox"/> Non-Inventer				
77	Mikrotik Router (Same as existing fleet of VSU)	unit	1	5,500.00	5,500.00
	<input checked="" type="checkbox"/> CPU Nominal Frequency: 880MHz				
	<input checked="" type="checkbox"/> CPU Core Count: 2				
	<input checked="" type="checkbox"/> Size of Ram: 256 MB				
	<input checked="" type="checkbox"/> 10/100/1000 Ethernet Ports: 5 ports				
	<input checked="" type="checkbox"/> PoE In: Yes				
	<input checked="" type="checkbox"/> Supported Input Voltage: 8 - 30 V				
	<input checked="" type="checkbox"/> PCB Temperature Monitor: Yes				
	<input checked="" type="checkbox"/> Voltage Monitor: Yes				
	<input checked="" type="checkbox"/> USB: Yes, Type A 2.0				
	<input checked="" type="checkbox"/> Hardware Encryption: Yes				
	<input checked="" type="checkbox"/> Dude Server Package Support: Yes				
	<input checked="" type="checkbox"/> License Level: 4				
	<input checked="" type="checkbox"/> Operation Sysyem: RouterOS				
	<input checked="" type="checkbox"/> CPU: MT7612A				
	<input checked="" type="checkbox"/> With hotspot capability				
78	Mini Voltage Regulator	pcs	2	200.00	400.00
	<input checked="" type="checkbox"/> Input Voltage: 3.2V ~ 40V				
	<input checked="" type="checkbox"/> Output Voltage: 1.25V ~ 35V				
	<input checked="" type="checkbox"/> Output Current: 3A (maximum)				
	<input checked="" type="checkbox"/> Connection port: IN + input positive IN - input negative, OUT + output positive OUT - output negative				
79	Mouse, Wired, Optical, USB	pieces	10	210.00	2,100.00
	<input checked="" type="checkbox"/> USB Port Connectivity				
	<input checked="" type="checkbox"/> Sensor: Optical				
	<input checked="" type="checkbox"/> DPI: 1600				
	<input checked="" type="checkbox"/> Work method: Wired				
	<input checked="" type="checkbox"/> Buttons: Left button, middle button, right button				
	<input checked="" type="checkbox"/> Scroll wheel direction: Two way				
	<input checked="" type="checkbox"/> Design highlights: Easy installation. 1600 DPI high-definition tracking engine. Anti-slip scroll wheel. Full-size, ambidextrous design				
80	Multiplexer (MUX) Breakout (8 Channel) (Compatible with Item # 94)	pcs	3	900.00	2,700.00
	<input checked="" type="checkbox"/> Operating Voltage: 1.65V - 5.5V				
	<input checked="" type="checkbox"/> Operating Temperature: -40 - 85° C				
	<input checked="" type="checkbox"/> I2C Address: 0x70 (default) up to 0x77				
	<input checked="" type="checkbox"/> 10x Qwiic Connector: 8x Channels				
	<input checked="" type="checkbox"/> 2x Pass Through (Daisy Chain)				
81	Nano Engraving PET Transmission Diffraction Grating Teaching spectral decomposition Precision component Detect	set	3	4,000.00	12,000.00
	<input checked="" type="checkbox"/> Size: 20x20mm				
	<input checked="" type="checkbox"/> Thickness: 2mm'				
	<input checked="" type="checkbox"/> Material: Float Glass				





	☐Scribed line density: 300lines/mm 600lines/mm 1000lines /mm 1200lines /mm 1800lines /mm				
	☐Working Wavelength: 200nm~1000nm				
82	Network Switch, Unmanaged	unit	1	15,000.00	15,000.00
	☐Standards: IEEE 802.3, 802.3u, 802.3x, 802.3ab, 802.3az				
	☐Number of Ports: 24 Gigabit				
	☐Speed: 10/100/1000				
	☐Bandwidth: 48 Gbps (non-blocking)				
	☐Performance: Full line rate and forwarding rate of 64B frame at: 1.488Mpps for 1000M port , 0.1488Mpps for 100M port, 0.01488Mpps for 10M port				
	☐Quality of Service: 802.1p and DSCP				
	☐MAC Address Table: 8K				
	Materials: Metals				
83	Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)	unit	1	11,000.00	11,000.00
	☐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				
84	Qwiic Cable (Compatible with Item # 80)	pcs	8	110.00	880.00
	☐ at least 100mm long				
	☐4-conductor cable				
	☐1mm JST termination				
	☐it's designed to connect Qwiic enabled components together				
85	Refillable Ink Cartridge	set	1	1,500.00	1,500.00
	CompatibleBrand : HP				
	Color : C				
	Color : M				



	Color : Y				
	Color : K				
	CompatibleBrand : HPInkjet				
	Colored : Yes				
	ModelNumber : For Hp920XL				
	Type : Ink Cartridge				
	Chip : with ARCchip				
86	Refrigerator- at least 6.0 cu.ft. (Two-door)	pc	1	14,990.00	14,990.00
	☐Two-Door Direct Cool Refrigerator				
87	RJ 45, Passthrough, CAT6	box	110	400.00	44,000.00
	☐Simplifies twisted pair terminations by allowing the wires to be inserted through the connector and out the front				
	☐Technician can easily verify the proper wiring order				
	☐Electrical performance of the termination is optimized by pulling the connector down over the cable jacket and seating it tightly in the rear of the connector				
	☐Reduces the distance between the wire twists and contacts improves performance				
	☐For use in Cat 6 compliant data networks				
	☐100 pieces per box				
88	SD card 512GB	pcs	1	6,000.00	6,000.00
	Ultra Micro SDXC A1 Series UHS-I Class 10 up to 120MB/s 512GB SDSQUA4 WITHOUT Adapter				
	Specification:				
	Card Type: microSD				
	Storage Capacity: 512GB (Actual user storage less				
	Data Transfer: Read Speed up to 120 MB/s				
	Waterproof, Temperature, X-Ray, and Shock-Proof				
	UHS Speed Class U1 and Speed Class 10 for Full HD video recording/playback				
	Compatible with raspberry pi				
	Bus Interface Speed: UHS Class I				
	Speed Class: 10				
89	SD Card, 128 GB	pcs	2	1,500.00	3,000.00
	☐Memory SD Card- 128 GB UHS-I SDXC				
	☐Card Type: SDXC				
	☐Storage Capacity: 128GB				
	☐Bus type: UHS-1				
	☐Data Transfer Read Speed: 170 MB/s Maximum (Burst)				
	☐Write speed: 90 MB/s maximum (Burst)				
	☐Write speed: 30 MB/s Minimum				
	☐Built-in Write Protect Switch				
	☐Durability: Shockproof, Temperature Extremes, waterproof, X-ray Proof				
	☐Opening Temperature: -25 to 85C				
90	Silicon Wire, Flexible, 28 AWG	box	1	2,000.00	2,000.00



	☐size: 28 AWG				
	☐materials:silicon rubber, tinning copper				
	☐voltage rating: 300 volts				
	☐rated temp: -60 to +- 150 degree celsius				
	☐wire length: 10Meter				
	☐item package quality: 4				
	☐color: assorted				
91	Soldering Iron Kit, with carrying case	set	1	2,000.00	2,000.00
	☐Electronics 15 Pieces Set Adjustable Temperature Soldering Tool, 5 Soldering Tips, Desoldering Pump w/ heater, Soldering Iron Stand, Tweezers, with carrying bag				
	☐Work Voltage: 220V				
	☐Power: 60W				
	☐Temp Range: 200°C - 450 °C				
	☐Tweezers: ESD-15, Length at least 4.7inches				
	☐Soldering Iron Stand: Steel				
	☐Tips Model: 900M series				
	☐Desoldering Pump: Plastic and aluminum alloy				
	☐Carrying bag: Fabric				
92	Speaker, for PC, 2.1 (Speaker with Subwoofer)	pc	2	1,270.00	2,540.00
	☐Power Output : rms 4.5w×2 sw: 12w				
	☐Signal to noise ratio : 80dba				
	☐Frequency Response : 80hz~20khz (±6db)				
	☐R/I: 300±50mv sw: 100 ± 20mv				
	☐Aux/USB/SD card				
	☐Bass driver :4 inch				
	☐Treble driver :2 3/4 inch				
93	Tower Fan	unit	5	6,000.00	30,000.00
	☐Tower type Fan,				
	☐880mm with ionizer and remote				
	☐Wattage (40w), Fan speed: 1425RPM				
94	Triad Spectroscopy Sensor (Compatible with Item # 74)	set	3	5,000.00	15,000.00
	☐Selectable interface: I2C or Serial (115200bps)				
	☐18 frequencies of light sensing: 410nm to 940nm				
	☐Special Features:				
	◀Integrated 405nm UV, 5700k White, and 875nm IR LEDs				
	◀Software control over each illumination LED as well as current control				
	◀Optional external bulb or illumination control				
	◀Programmed with latest firmware from AMS				
	◀28.6 nW/cm2 per count				
	◀Packing List: Triad Spectroscopy Sensor and Compatible Cord				
95	Triband Mobile Signal Repeater, Cellphone Signal Booster Amplifier cancelled	CANCELLED			





96	UPS (Computer)	unit	2	5,000.00	10,000.00
	Includes: (2) Detachable 1.8 m IEC power cords, Output power capacity 390W/650VA, Input 50/60Hz +/-3 Hz Auto sensing, Battery charge power 7watts, Intelligent battery management.				
	At most 4 hrs normal charging time				
97	UPS, at least 1000 VA	unit	3	3,000.00	9,000.00
	☐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				
	At most 4 hrs normal charging time				
98	UPS, at least 500 w	piece	1	2,550.00	2,550.00
	At most 4 hrs normal charging time				
99	UPS, at least 800 watts, at most 4 hours normal charging time	unit	3	5,000.00	15,000.00
100	UTP Cable (300 meters), CAT 6 23 AWG	box	29	8,500.00	246,500.00
	☐UTP Cable cat6				
	☐Cat 6 Cable UTP Unshielded AWG23				
	☐Gray Data LAN Cable				
	☐1000 feet 305m 1000ft.				
	Pure copper				
	☐must be UL listed & ISO certified cable				
101	Water Dispenser, Cabinet type	pc	1	10,000.00	10,000.00
	☐Floor standing				
	☐Hot and cold function				
	☐plastic body,high efficiency compressor				
	☐thermally protected				
102	Web Camera for Laptop and Desktop	pcs	2	720.00	1,440.00
	☐About 360 degrees, rotate up and down 45 degrees, you can adjust the angle.				
	☐With clips for laptops and desktops.				
	☐Sensor pixels: 2 million				
	☐Interface: USB 2.0				
	☐Frame rate: 30 FPS				
	☐Image sensor: CMOS				
	☐Brightness/color: automatically adjusts				
	☐Additional features: built-in microphone				
103	Web Camera for PC	unit	3	2,500.00	7,500.00
	☐Image sensor: 1 / 2.9				
	☐Lens: 3.6mm/75.7 °				
	☐Effective pixel: 1932 (H) * 1088 (V)				



	☑Horizontal resolution: 2MP				
	☑SNR: > 50dB				
	☑Video stream: H.264:1920 * 1080 / 1920 * 720 / 640 * 360 MJPEG: 1920 * 1080 / 1920 * 720 / 640 * 360				
	☑Video Frame rate: 25FPS / 30FPS				
	☑Electronic shutter: Auto				
	☑Protocol: UVC / UVA				
	☑Video output: USB video stream				
	☑Working voltage: DC5V / 160mA ± 6mA				
	☑Working environment: -20 °C to 60 °C				
104	Wi-Fi Module	pcs	3	600.00	1,800.00
	☑Protocols: 802.11 b/g/n (HT20)				
	☑Frequency Range: 2.4G – 2.5G (2400 – 2483.5)				
	☑TX Power: 802.11 b: +20 dbm, 802.11 g: 17 dBm, 802.11 n – 14 dBm				
	☑Antenna: PCB Trace, External, IPEX Connector, Ceramic Chip				
	☑CPU: Tensilica L106 32-bit processor				
	☑Operating Voltage: 2.5-3.6V				
	☑Operating Current: Average value: 80 mA				
	☑Operating Temperature Range: -40 °C - 125° C				
	☑Wi-Fi Mode: Station/SoftAP/SoftAP + Station				
	☑Security: WPA/WPA2				
	☑Encryption: WEP/TKIP/ AES				
	☑Firmware Upgrade: UART Download / OTA (via network)				
	☑Software Development: Supports Cloud Server Development/ Firmware and SDK for fast on-chip Programming				
	☑Network Protocols: IP4, TCP / UDP/ HTTP				
	☑User Configuration: AT Instruction Set, Cloud Server, Andriod/IOS App				
	☑Compatibility: Arduino and Raspberry pi				
105	Wire Connector	set	1	2,000.00	2,000.00
	☑Application Wire: Single Strand hard wire 0.2-4.0 mm2				
	☑Multi- Strand hard wire 0.14-4.0 mm2				
	☑Electrical parameters: 450V/32A				
	☑Stripping length: About 10mm				
	☑Quantity: 95 pcs				
	☑Type: Compact Terminal Block Plug-in Electrical Wire Connectors				
	Compatibility: Arduino and Raspberry pi				
106	Wireless Access Point	unit	3	9,900.00	29,700.00
	☑With Mounting Kits				
	☑Networking Interface (1) 10/100/1000 Ethernet Port				
	☑Buttons Reset				
	☑Power Method 802.3af PoE				
	☑Power Supply UniFi Switch (PoE)				
	☑Power Save Supported				



<input type="checkbox"/>	Beamforming Supported				
<input type="checkbox"/>	Maximum Power Consumption 10.5W				
<input type="checkbox"/>	Supported Voltage Range 44 to 57VDC				
<input type="checkbox"/>	TX Power				
<input type="checkbox"/>	2.4 GHz				
<input type="checkbox"/>	5 GHz				
<input type="checkbox"/>	23 dBm				
<input type="checkbox"/>	26 dBm				
<input type="checkbox"/>	MIMO				
<input type="checkbox"/>	2.4 GHz				
<input type="checkbox"/>	5 GHz				
<input type="checkbox"/>	2x2				
<input type="checkbox"/>	4x4				
<input type="checkbox"/>	Radio Rates				
<input type="checkbox"/>	2.4 GHz				
<input type="checkbox"/>	5 GHz				
<input type="checkbox"/>	300 Mbps				
<input type="checkbox"/>	1733 Mbps				
<input type="checkbox"/>	Antennas				
<input type="checkbox"/>	2.4 GHz				
<input type="checkbox"/>	5 GHz				
<input type="checkbox"/>	(2) Single-Port, Single-Polarity Antennas, 2.8 dBi each				
<input type="checkbox"/>	(2) Single-Port, Dual-Polarity Antennas, 3 dBi each				
<input type="checkbox"/>	Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac-wave2				
<input type="checkbox"/>	Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES), 802.11w/PMF				
<input type="checkbox"/>	BSSID 8 per Radio				
<input type="checkbox"/>	Mounting Wall/Ceiling (Kits Included)				
<input type="checkbox"/>	Operating Temperature -10 to 70° C (14 to 158° F)				
<input type="checkbox"/>	Operating Humidity 5 to 95% Noncondensing				
<input type="checkbox"/>	Certifications CE, FCC, IC				
<input type="checkbox"/>	Advanced Traffic Management				
<input type="checkbox"/>	VLAN 802.1Q				
<input type="checkbox"/>	Advanced QoS Per-User Rate Limiting				
<input type="checkbox"/>	Guest Traffic Isolation Supported				
<input type="checkbox"/>	WMM Voice, Video, Best Effort, and Background				
<input type="checkbox"/>	Concurrent Clients 200+				
<input type="checkbox"/>	Supported Data Rates (Mbps)				
<input type="checkbox"/>	Standard Data Rates				
<input type="checkbox"/>	802.11a 6, 9, 12, 18, 24, 36, 48, 54 Mbps				
<input type="checkbox"/>	802.11n 6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)				
<input type="checkbox"/>	802.11ac 6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80)				
<input type="checkbox"/>	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				
	☐Should be compatible with existing UniFi Controller				
107	Wireless Optical Mouse	pcs	10	1,000.00	10,000.00
	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				
108	3.5 inch TFT Touch Screen for raspberry pi (Compatible with Item # 74)	pc	1	2,000.00	2,000.00
	☐LCD Type: TFT				
	☐LCD driver IC: ILI9486L				
	☐LCD Interface: SPI (up to 125MHz SPI input Max FPS: 50Mhz)				
	☐Touch Screen Type: Resistive				
	☐Touch Screen Controller: XPT2046				
	☐Colors: 65536				
	☐Backlight: LED				
	☐Resolution: 320*480 (Pixel)				
	☐Backlight Current: 120ma				
	☐Power: 0.16A x 5V				
	☐Operating Temp. (°C):-20~70				
	☐Includes: 1 x Touch pen, 3 x Heatsink				
109	Camera Module + 6mm lens	set	3	5,800.00	17,400.00
	Compatible with Item # 74				
	☐Image Sensor: SONY IMX477R stacked, black-illuminated sensor, 12.3 Megapixels, 7.9mm sensor diagonal, 1.55um x 1.55 um pixel size				
	☐Output: RAW12/10/8, COMP8				
	☐Back Focus: Adjustable (12.5mm - 22.4mm)				
	☐Lens standards: C-mount or CS-mount (C-CS adapter included)				
	☐IR filter: integrated				
	☐Ribbon cable/FFC length: 200mm				
	☐Tripod mount: 1/4" - 20				
	☐Compliance: *FCC 47 CFR Part 15, Subpart B, Class B Digital Device, *Electromagnetic Compatibility Directive (EMC) 2014/30/EU, *Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU, Connects to the Raspberry Pi board via the FFC/Ribbon cable (included)				
	☐Include a 6mm wide angle lens with the following specs				
	◀Image Format: 1/2"				
	◀Focal Length: 6mmR				
	◀Resolution: 3MegaPixel				
	◀Aperture: F1.2				
	◀Mount: CS				
	◀Field Angle DxHxV°: 63°				



	◀M.O.D.: 0.2m				
	Flexible cable				
	◀Back Focal Length: 7.53mm				
110	Camera Module, 8MP, Pi NoIR v2	set	3	2,200.00	6,600.00
	Compatible with Item # 74				
	☐CCD size:1/4 inch				
	☐Aperture(F):2				
	☐Focal Length:3.04 mm (adjustable)				
	☐Field of View:73.8 degrees				
	☐Picture Resolution:3280 × 2464				
	☐Video Record Resolution: 1080p30, 720p60 and 640x480p90				
	☐Compatible: Raspberry Pi controller/ processor				
	☐Pi NoIR Infrared Camera Board V2				
	☐Camera sensor: Sony IMX219 8 megapixel sensor				
	Flexible cable				
	☐Included Components: Compatible ribbon cable (150mm CSI camera cable), Blue filter				
111	RJ-45 Volition U.S. standard Faceplate panel double port 2-Port IO Information Outlet plate for compatibility with existing fleet (must be compatible with item #112-113)	pcs	35	150.00	5,250.00
	☐IO Information Outlet plate				
	☐Ensure easy fitting and smart presentation of the RJ45 jacks				
	☐The Keystone mounting feature of the Jack may allow you to use other Keystone boxes or faceplates.				
	☐High performance				
	☐Brand new				
	☐comes with 2 pcs screws				
	☐Existing fleet of VSU Faceplate and should be compatible with existing keystone				
112	Volition Cat6 8-Way Female Tool-less IO Information Outlet RJ45 Connector Keystone Mount	pcs	40	350.00	14,000.00
	☐IO Information Outlet				
	☐Tool-less jack •				
	☐Re-usable •				
	☐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 •				



	<ul style="list-style-type: none"> More space and flexibility to ensure the cable minimum bend radius is never compromised • 				
	<ul style="list-style-type: none"> Compatibility between Volition copper and fiber jacks and many other accessories on the market using the standard keystone mounting • 				
	<ul style="list-style-type: none"> Compatible with all cables on the market and enables 'jack to plug' cables to be manufactured using stranded conductors • 				
	<ul style="list-style-type: none"> Increased dust protection, especially during installation • No additional shuttering required on faceplates • 				
	<ul style="list-style-type: none"> Higher port density • 				
	<ul style="list-style-type: none"> Allows direct mounting into floor boxes • 				
	<ul style="list-style-type: none"> An integral shutter protects the jack in the patch panel • 				
	<ul style="list-style-type: none"> Should be compatible with the existing fleet of VSU faceplates 				
113	RJ-45 Modular Connector (AMP)	pcs	40	20.00	800.00
114	3D printer	set	1	14,500.00	14,500.00
	<ul style="list-style-type: none"> Extruder Compatibility: CR10 (MK8 Hotend) 				
	<ul style="list-style-type: none"> Printing Technology: FFF (Fused Filament Fabrication) 				
	<ul style="list-style-type: none"> Filament Diameter: 1.75mm 				
	<ul style="list-style-type: none"> Layer Resolution: 100µm 				
	<ul style="list-style-type: none"> Max. Print Speed: 180mm/sec 				
	<ul style="list-style-type: none"> Precision: ±0.1mm 				
	<ul style="list-style-type: none"> Extruder Quantity: Single 				
	<ul style="list-style-type: none"> Max Nozzle Temp.: 255°C 				
	<ul style="list-style-type: none"> Heated Build Plate (Heated Bed): Yes 				
	<ul style="list-style-type: none"> Max Bed Temp: 110°C 				
	<ul style="list-style-type: none"> Bed Type: Glass 				
	<ul style="list-style-type: none"> Leveling: Automatic 				
	<ul style="list-style-type: none"> Build Volume X: 220mm 				
	<ul style="list-style-type: none"> Build Volume Y: 220mm 				
	<ul style="list-style-type: none"> Build Volume Z: 250mm 				
	<ul style="list-style-type: none"> Supported Materials: ABS, FLEX, PET, PLA, TPU, 				
	<ul style="list-style-type: none"> File Format: G-Code, OBJ, STL 				
	<ul style="list-style-type: none"> Working Mode: Offline (SD Card/USB Stick), Online (USB) 				
	<ul style="list-style-type: none"> Nozzle diameter: 0.4mm can be in 0.2, 0.3mm 				
	<ul style="list-style-type: none"> Max Traveling Speed: 180mm/s 				
	<ul style="list-style-type: none"> Slicer: Cura (Works with Simplify3D not included) 				
	<ul style="list-style-type: none"> Operating System: Windows/Mac/Linux 				
	<ul style="list-style-type: none"> Chassis: Imported V-Slot Aluminum Bearings 				
	<ul style="list-style-type: none"> Electrical Input: AC 100-265V 50-60Hz 				
	<ul style="list-style-type: none"> Output: DC 24V 15A 360W 				
115	3D Printer Filament Set (for 3D Printer in Item 114)	set	1	7,500.00	7,500.00
	* (1 pc) 3D Printer Filament (ABS)				
	<ul style="list-style-type: none"> Mass: 1 KG (approximately 2.20 lbs) Spool 				
	<ul style="list-style-type: none"> Filament Diameter: 1.75mm (Dimensional Accuracy +/- 0.03mm) 				
	<ul style="list-style-type: none"> Extrusion/Nozzle Temperature: 210°C - 240°C (410°F - 464°F) 				





	☐Spool Diameter: 7.88"				
	☐Spool Width: 2.69"				
	☐Spool Hub Hole Diameter: 2.20"				
	☐Color: Black				
	☐Material Type: ABS				
	* (1 pc) 3D Printer Filament (TPU) (for 3D Printer in Item 114)				
	☐Color: black				
	☐Item Diameter: 1.75 millimeters				
	☐Item weight: not less than 15.7 ounces				
	☐Material: Rep-Flex-Tpu- Vacuumed Sealed With Desiccant				
	☐Outside Diameter: 1.75 millimeters (+/- 0.05mm)				
	☐Recommended Extrusion/Nozzle Temp: 195 - 230 degree celsius				
	☐Recommended Platform Temperature: 40 - 60 degree celsius				
	☐Packing List:TPU Flexible Filament 1.75mm 250g(vacuum sealed)				
	* (2 pcs) 3D Printer PLA filament				
	☐Recommended Extrusion/Nozzle Temp: 90°C - 220°C (374°F~ 428°F)				
	☐Heated Bed Temp: 25°C - 60°C (77°F~ 140°F)				
	☐Filaments Diameter and Accuracy: 1.75 mm +/- 0.05				
	☐Filaments Net Weight: 1 kg (2.2 lbs) / Spool				
	☐Build Surface: 200 mm x 200 mm (7.88" x 7.88")				
	☐Type of filament: PLA				
116	Digital Multimeter	pc	1	7,000.00	7,000.00
	DCV: 400m/4/40/400/1000V				
	ACV: 4/40/400/1000V ±(1.2%+7)				
	DCA: 400μ/4000μ/40m/400m/4/10A				
	ACA: 400μ/4000μ/40m/400m/4/10A				
	Resistance: 400/4k/40k/400k/4M/40MΩ				
	Capacitance: 50n/500n/5μ/50μ/100μF				
	Frequency: 5/50/500/5k/50k/100kHz				
	Continuity: Buzzer sounds and LED lights up at between 0Ω and 85 Ω (±45Ω. Open voltage: Approx. 0.4V				
	Diode test: Open voltage:approx.1.5V				
	Battery Check: Approximate value (30Ω load) 1.5V battery only				
	Display numeral display: 4000				
	Sampling rate: 3 times/sec.				
	Bandwidth: 40~400Hz (Sine wave)				
	Fuse: 0.5A/1000V 30kA Φ6.35×32mm 10A/1000V 30kA Φ10×38mm				
	Battery: R6Px2				
	Battery life: Approx.400h (manganese battery) at DCV rangeSafety: IEC61010CAT. III 600V/CAT. II 1000VDCV: 400m/4/40/400/1000V				
	ACV: 4/40/400/1000V ±(1.2%+7)				
	DCA: 400μ/4000μ/40m/400m/4/10A				



	ACA: 400μ/4000μ/40m/400m/4/10A				
	Resistance: 400/4k/40k/400k/4M/40MΩ				
	Capacitance: 50n/500n/5μ/50μ/100μF				
	Frequency: 5/50/500/5k/50k/100kHz				
	Continuity: Buzzer sounds and LED lights up at between 0Ω and 85Ω (±45Ω) . Open voltage: Approx. 0.4V				
	Diode test: Open voltage:approx.1.5V				
	Battery Check: Approximate value (30Ω load) 1.5V battery only				
	Display numeral display: 4000				
	Sampling rate: 3 times/sec.				
	Bandwidth: 40~400Hz (Sine wave)				
	Fuse: 0.5A/1000V 30kA Φ6.35×32mm 10A/1000V 30kA Φ10×38mm				
	Battery: R6Px2				
	Battery life: Approx.400h (manganese battery) at DCV range				
	Safety: IEC61010CAT. III 600V/CAT. II 1000V				
117	Ink, Refill, UNIKIT for CIS black, yellow, cyan, magenta	sets	4	790.00	3,160.00
	Rebidding (from GOODS-21-28)				
118	Ink Cartridge, HP680, black, genuine	pcs	20	570.00	11,400.00
119	Ink Cartridge, HP680, tri color, genuine	pcs	20	570.00	11,400.00
120	Ink Cartridge, HP704, black, genuine	pcs	40	570.00	22,800.00
121	Ink Cartridge, HP704, tri color, genuine	pcs	40	570.00	22,800.00
122	Computer Printer 3-in-1 with CIS Filled with Inks	unit	2	10,000.00	20,000.00
	☑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				
123	Desktop Computer (i7 Branded)	unit	1	75,000.00	75,000.00
	☑CPU: 9th Gen Intel Core i7-9700 (8-Core, 12MB Cache, up to 4.7GHz with Intel Turbo Boost Technology) or higher				
	☑HDD: 256GB M.2 PCIe NVMe Solid State Drive + 1TB 7200 rpm 3.5" SATA Hard Drive				
	☑RAM: 8GB (8GBx1) DDR4 2666MHz				
	☑Graphics: NVIDIA GeForce GTX 1650 4GB GDDR5				
	☑Screen: 23" IPS Monitor FHD				
	☑Optical Drive: No Optical Drive				
	☑OS: licensed Windows 10 Home Single Language (64bit) English				
124	Electric Projector Screen	pc	1	15,000.00	15,000.00
	☑manual pull-down with a speed control mechanism				
	☑Ceiling/Wall Mount				
	☑Aspect Ratio 16:9				
	☑Screen Height at least 2030mm				



	☑Screen at least Width 1145mm				
	☑Metal casing				
125	Laptop, 14" (i7)	unit	2	60,000.00	120,000.00
	☑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/bag				
126	DSLR Camera (24.2 MP, APS-C with 18-55mm lens)	unit	2	55,000.00	110,000.00
	☑24.2MP APS-C CMOS Sensor				
	☑3.0" 1.04m-Dot Vari-Angle Touchscreen				
	☑Full HD 1080p Video Recording at 60 fps				
	☑45-Point All Cross-Type AF System				
	☑Dual Pixel CMOS AF				
	☑Expanded ISO 25600, Up to 7 fps Shooting				
	☑Built-In Wi-Fi with NFCEF-S 18-55mm f/3.5-5.6 IS STM				
127	CCTV IP Camera	piece	5	3,500.00	17,500.00
	☑2MP WDR, with Built-in Mic				
	☑12v, DC				
	☑30m IR range,				
	☑1920x1080 Max. Resolution				
	☑Dome Type				
	☑2.8/4mm fixed lens				
128	UTP Cable Wire, CAT5E, 4 pairs	box	1	2,500.00	2,500.00
	☑305M UTP Cable (Unshielded Twisted Pairs) CAT5E				
	☑Category: Cat5E				
	☑4Pairs 24AWG				
	☑Insulation Thickness: 0.2mmJacket				
	☑Thickness: 0.92-0.95mm				
	☑Stretching Resistance: (max)250N				



	☐ Impedance : $100\Omega \pm 15\%$ @ 1~100MHz				
	☐ DC Resistance Imbalance : 2.50%				
	☐ Working Capacitance(Max.) : 5.4nF/100m				
	☐ Inner Conductor Thickness: 0.4mm 8CCA				
	☐ Inside Material: CCA (Copper Clad Aluminum)				
	☐ Outside Material: PVC Jacket				
129	SD Card, 128 GB	pc	1	1,500.00	1,500.00
	☐ Memory SD Card- 128 GB UHS-I SDXC				
	☐ Card Type: SDXC				
	☐ Storage Capacity: 128GB				
	☐ Bus type: UHS-1				
	☐ Data Transfer Read Speed: 170 MB/s Maximum (Burst)				
	☐ Write speed: 90 MB/s maximum (Burst)				
	☐ Write speed: 30 MB/s Minimum				
	☐ Built-in Write Protect Switch				
	☐ Durability: Shockproof, Temperature Extremes, waterproof, X-ray Proof				
	☐ Opening Temperature: -25 to 85C				
130	Computer Printer, All-in-One / Multifunction Colored-Ink Tank	unit	1	11,000.00	11,000.00
	☐ Ultra-low-cost printing: Print up to 8,100 pages in black and 6,500 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				
131	Tablet, 7.9 Inch (Wifi only)	units	4	20,000.00	80,000.00
	☐ 7.9-inch (diagonal) LED-backlit Multi-Touch display				
	☐ 2048-by-1536 resolution at 326 pixels per inch (ppi)				
	☐ Wide color display (P3)				
	☐ True Tone display				
	☐ Fingerprint-resistant oleophobic coating				
	☐ Fully laminated display				
	☐ Antireflective coating				
	☐ 500 nits brightness				
	☐ 8MP camera				
	☐ f/2.4 aperture				
	☐ Five-element lens				
	☐ Hybrid IR filter				
	☐ Backside illumination				
	☐ 7MP photos				



	☐f/2.2 aperture				
	☐1080p HD video recording at 30 fps				
	☐Retina Flash				
	☐Wi-Fi (802.11a/b/g/n/ac); simultaneous dual band (2.4GHz and 5GHz); HT80 with MIMO				
	☐Bluetooth 5.0 technology				
132	Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)	pc	1	2,000.00	2,000.00
	☐Antivirus Software keeps your PC/Laptop/Mobile device safe from Trojans, viruses, spyware, rootkits, and more, with state-of-the-art anti-malware protection				
	☐Detects, quarantines, and blocks viruses and malware to prevent damage to your PC/Laptop				
	☐Keep zero-day threats and botnets at bay – McAfee-delete Active Protection and Global Threat Intelligence technology have you covered				
	☐Block inappropriate sites				
	☐Two-Way Firewall system monitors and stops traffic in and out of your PC				
	☐Keep sensitive files private by storing them on your PC with 128-bit encryption				
	☐Eliminate the hassle of passwords with the password manager app				
133	Printer All-in-One System With Wi-fi, ADF and Ink Tank System	unit	1	14,695.00	14,695.00
	☐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 (A4)				
	☐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				
134	Heavy Duty Combo Binding Machine	unit	1	14,500.00	14,500.00
	ΦSpecs:				
	☐Maximum Punching Sheets: 25				
	☐Max Size: LS, F4, A4, Extra Long				
	☐Selectable Punching Pins: 24 slots				
135	Paper Shredder Machine, Heavy Duty	pc	1	6,000.00	6,000.00



	☐Shred Type: Cross Cut				
	☐Maximum Sheet capacity(70gsm) : 10 Sheets				
	☐Waste Container capacity: 21 Liters				
	☐Power Source: 220 - 240 VAC				
136	All-in-One Printer with ADF	unit	1	21,000.00	21,000.00
	☐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				
137	Desktop Microphone	pcs	2	650.00	1,300.00
	☐Compatible with: Desktop/Notebook/PC, Windows 7-10				
	☐Pickup: 6mm Condenser Mic				
	☐Microphone Directivity: Omnidirectional				
	☐Sensitivity: -58db±3db				
	☐Signal-to-noise Ratio: ≤50dB				
	☐Cable Length: 2.5m				
	☐Type: 3.5mm Plug				
	Rebidding (from GOODS-21-33)				
138	Blank DVD+RW 8x 4.7Gb w/indiv case	pcs	50	50.00	2,500.00
139	HP Ink Cartridge 678 Black	pcs	5	540.00	2,700.00
140	HP Ink Cartridge 678 Tricolor	pcs	10	540.00	5,400.00
		TOTAL ABC:			3,018,217.00

Sgnd
DILBERTO O. FERRAREN
BAC Chairman